Fisher Scientific 2014/2016

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Fisher Scientific

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In Person

Your Fisher Scientific account manager will visit your laboratory, listen carefully to your needs, and help you decide on the combination of products and services that best fulfill your requirements. Contact your account manager for quotations, technical information, product availability, and ordering information. If you don't have an account manager, call **1-800-766-7000.**

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Fisher Scientific

Fisher Scientific has been serving science for more than a century. Today more than 350,000 customers in 150 countries rely on us as their single source for innovative products and services designed to accelerate their productivity, efficiency, and results.

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Over 100 years of demonstrated performance

Expertise

Dedicated to offering a single-source ordering option for convenience and efficiency

Products

Committed to providing the robust portfolio of the best and latest products on the market

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Aligned with thousands of manufacturers around the globe with interest in innovation

Fisher Scientific

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Preserve Sample Volume and Avoid Flow/FACS* Clogs with Flowmi™ Cell Strainers

Scienceware™ Flowmi Cell Strainers provide fast and efficient filtering of small volume samples (up to 1000µl) prior to FLOW or FACS analysis.

- Preserves volume when filtering small sample volumes
- Decreases the potential for clogging of FLOW or FACS instruments by effectively filtering cellular debris
- Use with your favorite pipette tips; Flowmi fits most P1000 tips including Fisherbrand Sure-One, VWR brand, Axygen, Nichiryo and Eppendorf and more
- Compact tray holds 50 Flowmi Cell Strainers ready for press-and-fit attachment to your tip; features a sliding cover for easy, one-handed use
- Packaged in a re-sealable bag to maintain sterility when used in laminar flow hoods
- Sterile, 40µm porosity

FACS is a registered trademark of Becton-Dickinson Corporation

Description	Cat. No.	Price
Flowmi Cell Strainers	**14-100-150**	$89.25

FLOWMI™
Cell Strainers (40µm porosity)

Fisher Scientific™ Isotemp™ General Purpose Water Baths

Capacity, performance and ease-of-use in a compact design

- Capacity ranges from 2L to 28L
- Front-mounted controls offer easier access and safer operations
- Compact footprint optimizes laboratory bench space

Isotemp Digital and Analog Water Bath Features:

- Corrosion-resistant exterior with easy-to-clean enamel coating
- Low bath profile and front-panel controls allow for easier access and safer operation
- Rounded reservoir corners and diffuser trays for easy removal/cleaning
- Removable cover lifts to 90° stay-open position or can be removed completely by a quick release to accommodate large glassware
- Hinged gable cover fins protect hands from hot vapors

Shallow-form models 102S and 202S models

- Ideal for heating samples in microcentrifuge tubes and for other molecular biology procedures

Dual-Chamber Models 115 and 215

- Features two chambers (1.32 gal/5L and 2.64 gal/10L) with separate controls

Models 110, 115, 120, 128, 210, 215, 220 and 228

- Include drain pump to empty reservoir

Models 220 and 228

- Optimize bench space with a movable control panel that mounts to either the long or short side of the bath

Isotemp Digital Control Water Baths

Temperature Range with Lid	Temperature Accuracy at 37°C	Temperature Uniformity at 37°C	Temperature Stability at 37°C	Temperature Control/Display	Resolution	Voltage
Ambient to 100°C (212°F)	± 0.5°C	± 0.24°C	± 0.5°C	PID/Digital†	± 0.1°C	120V 50/60HZ

†Microporcessor PID Control

Model Number	202	202S (Shallow)	205	210	215 (Dual Chamber)	220	228
Cat. No.	**15-462-2Q**	**15-462-2SQ**	**15-462-5Q**	**15-462-10Q**	**15-462-15Q**	**15-462-20Q**	**15-462-28Q**
Reservoir Capacity	0.5 gal (2L)	0.5 gal (2L)	1.32 gal (5L)	2.64 gal (10L)	1.38/2.64 gal (5L/10L)	5.28 gal (20L)	7.38 gal (28L)

Isotemp Analog Control Water Baths

Temperature Range with Lid	Temperature Uniformity at 37°C	Temperature Stability at 37°C	Temperature Control/ Display	Voltage
Ambient to 100°C (212°F)	± 0.2°C	± 0.2°C	Analog	120V 50/60HZ

Model Number	102	102S (Shallow)	105	110	115 (Dual Chamber)	120	128
Cat. No.	**15-460-2Q**	**15-460-2SQ**	**15-460-5Q**	**15-460-10Q**	**15-460-15Q**	**15-460-20Q**	**15-460-28Q**
Reservoir Capacity	0.5 gal (2L)	0.5 gal (2L)	1.32 gal (5L)	2.64 gal (10L)	1.38/2.64 gal (5L/10L)	5.28 gal (20L)	7.38 gal (28L)

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Traceable™ Excursion-Trac™ Datalogging Refrigerator/ Freezer Thermometer

Datalogging thermometer with user-defined time intervals

- Meets current CDC requirements for vaccine storage and monitoring
- Rolling memory structure, maintains most recent 525,600 temperature observations
- Stores up to 10 unique alarm events
- Memory can be cleared on unit after downloading data to USB stick
- Hassle-free retrieval of data — unit can remain in use while downloading and analyzing data
- Status indicators — Low battery, memory full, USB data transfer and active alarm state
- Includes: stand, Velcro™, magnetic strips, wall mount, Traceable™ Certificate, batteries

Cat.No.	Range	Resolution	Accuracy	Probe
15-081-123	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 1 bottle
15-081-124	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 2 bottles
15-081-125	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 1 Bullet™
15-081-126	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 2 Bullets
15-081-127	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 1 bottle and 1 Bullet
15-081-128	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 1 stainless-steel
15-081-129	-50.00 to 70.00° C	0.01°	±0.25° C	Excursion-Trac, 2 stainless-steel

Traceable™ Memory-Loc™ Datalogging Refrigerator/ Freezer Thermometer

Datalogging thermometer that can used in 21 CFR 11 enviroments

- Meets current CDC requirements and additional recommendations for vaccine storage and monitoring
- Use in 21 CFR 11 enviroments, raw data is locked and may not be cleared/changed on base unit
- Data-logging thermometer with fixed one minute logging interval
- Stores up to 10 unique alarm events
- Capable of storing over 1 million temperature observations
- Hassle-free retrieval of data — unit can remain in use while downloading and analyzing data
- Status indicators — Low battery, memory full, USB data transfer and active alarm state
- Includes: stand, Velcro™, magnetic strips, wall mount, Traceable™ Certificate, batteries

Cat.No.	Range	Resolution	Accuracy	Probe
15-081-130	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 1 bottle
15-081-131	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 2 bottles
15-081-132	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 1 Bullet™
15-081-133	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 2 Bullets
15-081-134	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 1 bottle and 1 Bullet
15-081-135	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 1 stainless-steel
15-081-136	-50.00 to 70.00° C	0.01°	±0.25° C	Memory-Loc, 2 stainless-steel

Corning® Customized Bioprocess Culture Environments

CORNING

Corning customized cell culture products enable efficient scale-up and production in Bioprocess. From vessels to media to surfaces to closed systems, Corning can provide the necessary cell culture platform to accomplish your goal – right from the start.

Vessels

- Scale-up and production vessels for growth of adherent and suspension cells

Media, Sera, Buffers and Supplements

- Comprehensive portfolio of media, sera, buffers, and supplements for cell growth maintenance

Surfaces

- Standard and enhanced surfaces to enable cell attachment and growth

Closed Systems

- Customizable solutions with vessels, tubing, filters, and connectors (over 200 components available)

Visit **www.fishersci.com/corningcellculturesolutions** for more information.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures.

VESSELS

MEDIA/SERA/BUFFERS/ SUPPLEMENTS

SURFACES

CLOSED SYSTEMS

hMSC on Corning Synthemax II polystyrene microcarriers

CORNING | FALCON® AXYGEN® PYREX® GOSSELIN™

Description	Mfr. No.	Cat. No.	Qty.
Polystyrene CellSTACK® 40-layer Chamber with Vent Caps, 2 per Case	3272	**07-201-820**	2/2,210.00
Corning Low Concentration Synthemax® II Microcarriers, 10g Vial	3781	**13-700-506**	1/180.90
Corning 125 mL Disposable Spinner Flask with 70 mm Top Cap and 2 Angled Sidearms, Sterile	3152	**07-201-152**	12/1,146.00
Corning 250 mL Polycarbonate Erlenmeyer Flask with Vent Cap	431144	**07-200-668**	50/658.78
Dulbecco's Phosphate-Buffered Saline, 1X (DPBS)	21-031-CV	**MT-21-031-CV**	6/103.70
Phosphate-Buffered Saline, 1X (PBS)	21-040-CV	**MT-21-040-CV**	6/94.20
Dulbecco's Modification of Eagle's Medium (DMEM)	10-013-CV	**MT-10-013-CV**	6/124.80
Dulbecco's Modification of Eagle's Medium/Ham's F-12 50/50 Mix (DMEM/HAM)	10-092-CV	**MT-10-092-CV**	6/160.10
RPMI 1640	10-040-CV	**MT-10-040-CV**	6/121.70
Trypsin EDTA 1X	25-053-CI	**MT-25-053-CI**	6/71.30

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Decon Labs Pure Ethanol

- Available in 140, 190 and 200 Proofs
- Packaging options include plastic, glass or metal containers
- There are no minimum requirements (case only)
- Can be purchased tax-free by customers possessing a valid Industrial Alcohol User Permit
- Custom proofs and packaging available

200 Proof — Tax-Free

Description	Mfr. No.	Cat No.	Each
24 × 1 Pint, Plastic	2716	**04-355-222**	$136.40
24 × 1 Pint, Glass	2716G	**07-678-004**	$296.50
1 Pint, Glass	2716GEA	**07-678-005**	$72.80
4 × 1 Gallon, Plastic	2701	**04-355-223**	$134.91
4 × 1 Gallon, Glass	2701G	**04-355-720**	$212.00
5 Gallon, Plastic with pour spout	2705	**04-355-224**	$170.20
5 Gallon, Plastic with a spigot closure	2705SG	**22-032-103**	$165.00
5 Gallon, Plastic cubitainer	2705HC	**22-032-601**	$185.80
5 Gallon, Metal with pour spout	2805M	**04-355-233**	$93.90
55 Gallon, Plastic	2755	**04-355-600**	$1,170.00
55 Gallon, Metal	2755M	**04-355-230**	$1,153.00

190 Proof — Tax-Free

Description	Mfr. No.	Cat No.	Each
24 × 1 Pint, Plastic	2816	**04-355-225**	$154.00
4 × 1 Gallon, Plastic	2801	**04-355-226**	$130.90
4 × 1 Gallon, Glass	2801G	**04-355-722**	$207.50
5 Gallon, Plastic with pour spout	2805	**04-355-221**	$172.90
5 Gallon, Plastic with a spigot closure	2805SG	**22-032-105**	$166.00
5 Gallon, Plastic cubitainer	2805HC	**22-032-600**	$182.30
5 Gallon, Metal with pour spout	2705M	**04-355-232**	$88.40
55 Gallon, Plastic	2855	**04-355-601**	$1,170.00
55 Gallon, Metal	2855M	**04-355-231**	$1,154.00

140 Proof — Tax-Free

Description	Mfr. No.	Cat No.	Each
4 × 1 Gallon, Plastic	2401	**04-355-305**	$138.80
5 Gallon, Plastic with pour spout	2405	**04-355-350**	$135.40
12 × 32oz., Plastic	2432	**04-355-309**	$123.00
55 Gallon, Metal	2455M	**04-355-175**	$778.55

200 Proof — Tax-Paid

Description	Mfr. No.	Cat No.	Each
24 × 1 Pint, Plastic	2716TP	**04-355-450**	$24.45
24 x 1 Pint, Glass	2716GTP	**07-678-006**	$808.50
1 Pint, Glass	2716GEATP	**07-678-007**	$86.35
4 × 1 Gallon, Plastic	2701TP	**04-355-451**	$131.66
4 × 1 Gallon, Glass	2701GTP	**04-355-721**	$485.00
5 Gallon, Plastic with pour spout	2705TP	**04-355-452**	$606.00
5 Gallon, Plastic with a spigot closure	2705SGTP	**22-032-104**	$569.00
55 Gallon, Plastic	2755TP*	**04-355-456**	$1,163.00
55 Gallon, Metal	2755MTP*	**04-355-460**	$1,153.00

190 Proof — Tax-Paid

Description	Mfr. No.	Cat No.	Each
24 × 1 Pint, Plastic	2816TP	**04-355-453**	$24.90
4 × 1 Gallon, Plastic	2801TP	**04-355-454**	$140.50
4 × 1 Gallon, Glass	2801GTP	**04-355-723**	$478.50
5 Gallon, Plastic with pour spout	2805TP	**04-355-455**	$618.00
5 Gallon, Plastic with a spigot closure	2805SGTP	**22-032-106**	$570.00
55 Gallon, Plastic	2855TP*	**04-355-457**	$1,133.00
55 Gallon, Metal	2855MTP*	**04-355-461**	$1,141.00

140 Proof — Tax-Paid

Description	Mfr. No.	Cat No.	Each
4 × 1 Gallon, Plastic	2401TP	**07-678-001**	$469.00
5 Gallon, Plastic with pour spout	2405TP	**04-355-351**	$561.03

Ethanol for Molecular Biology

Description	Mfr. No.	Cat No.	Each
24 × 1 Pint, Glass	3916	**07-678-002**	$1,828.00
1 Pint, Glass	3916EA	**07-678-003**	$77.00

**Excise Tax is treated as a separate line item*

New From Decon: AquaPur Purified Water available in 4 × 1 gal., 5 gal. and 55 gal. containers.

AquaPur Purified Water

Description	Mfr. No.	Cat No.	Each
4 × 1 Gallon	9301	**04-355-124**	$32.45
5 Gallon	9305	**04-355-125**	$124.90
55 Gallon	9355	**04-355-126**	$534.00

Quality, Comfort And Durability For Your Cleanroom

DuPont understands your need to do everything possible to improve productivity and reduce risk in your controlled environment. The DuPont Controlled Environments portfolio offers a comprehensive selection of single-use cleanroom apparel and accessories designed for use in pharmaceutical, medical device, biotech and electronic settings that require high standards for particle and microbiological contamination control.

www.ControlledEnvironments.DuPont.com

Product	Cat. No.	Mfr. No.	Description
IC253BWH option CS Coverall - Clean-Processed & Sterile	**17988043**	IC253BWHSM0025CS	All option CS garments are gamma sterilized to SAL of 10-6; clean-processed to offer the lowest level of particle shedding within the DuPont product portfolio.
	17988044	IC253BWHMD0025CS	Full traceability on all sterilized apparel and certificates of sterility
	17988045	IC253BWHLG0025CS	Bound seams are covered with garment fabric to reinforce the seam and to reduce the potential for particle penetration
	17988046	IC253BWHXL0025CS	Dolman sleeve design for greater range of motion and comfort
	17988047	IC253BWH2X0025CS	
	17988048	IC253BWH3X0025CS	
	17988049	IC253BWH4X0025CS	
ML7360 option 0S Face Mask - Sterile Only	**19171025**	ML7360WH0002500S	Mask is 9" size with bound Tyvek® ties for cleanroom use Pleated rayon outer facing Metal nose piece
IC458B option CS Boot Cover - Clean-Processed & Sterile	**19813220**	IC458BWHXL0100CS	Ankle ties for secure fit Gripper™ soles provide enhanced skid-resistance and durability 18" high boot cover with covered elastic top
IC729S option CS - Bouffant Cap - Clean-Processed & Sterile	**19100422**	IC729SWH000250CS	21.5" diameter opening Elastic headband

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

EMD Millipore™ Stericup® Vacuum Filter Cup

Don't take risks with your media

If your sterile filtration membranes are clogging and/or binding serum proteins in your media, your cells risk:

- Cellular damage
- Exposure to toxins
- Suboptimal cell growth

Trust Stericup filters with NEW improved Millipore Express® PLUS membrane. Our most popular Stericup membrane, Millipore Express PLUS polyethersulfone (PES), now delivers even faster filtration rates while reducing overall protein and reagent loss.

Description	Membrane	Pore Size (µm)	Funnel Capacity (mL)	Receiver Bottle (mL)	Qty/Pk	Cat. No.
Stericup-GP Filter Unit	Millipore Express PLUS (PES)	0.22	150	150	12	**SCGPU01RE**
		0.22	250	250	12	**SCGPU02RE**
		0.22	500	500	12	**SCGPU05RE**
		0.22	1000	1000	12	**SCGPU11RE**

EMD Millipore™ Amicon® Pro Purification System

All-In-ONE:

Purify, concentrate and exchange buffer in 1.5 hours; 5 spins

- Affinity purification in 1 hr., 4 spins
- Protein concentration: 25X
- Desalting in 20 min., 1 spin

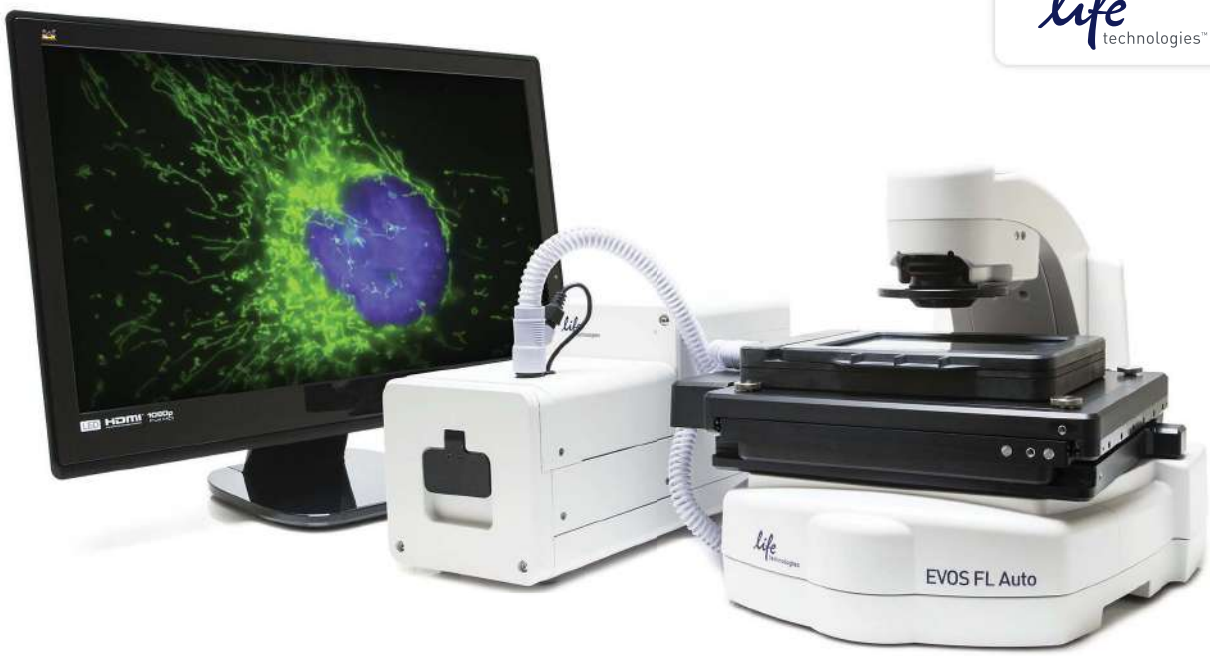
Continuous buffer exchange:

The gentleness of dialysis with the efficiency of ultrafiltration.
Novel design enables 1000 fold (99.99%) desalting while maintaining protein integrity.

- Antibody labeling in 1 hr., 3 spins
- Dialysis in 20 min., 1 spin

Description	MWCO				
No reagents included	3,000	10,000	30,000	50,000	100,000
Amicon Pro Purification System 12/pk	ACS500312	ACS501012	ACS503012	ACS505012	ACS510012
Amicon Pro Purification System 24/pk	ACS500324	ACS501024	ACS503024	ACS505024	ACS510024
Includes reagent kit (resin and buffers)					
Amicon Pro Affinity Concentration Kit Ni-NTA	ACK5003NT	ACK5010NT	ACK5030NT	ACK5050NT	ACK5100NT
Amicon Pro Affinity Concentration Kit Protein A	ACK5003PA	ACK5010PA	ACK5030PA	ACK5050PA	ACK5100PA
Amicon Pro Affinity Concentration Kit Protein G	ACK5003PG	ACK5010PG	ACK5030PG	ACK5050PG	ACK5100PG
Amicon Pro Affinity Concentration Kit GST	ACK5003GS	ACK5010GS	ACK5030GS	ACK5050GS	ACK5100GS

EVOS™ FL Auto Imaging System + Onstage Incubator



- Exceptional ease-of-use with a fully automated and motorized X/Y scanning stage, autofocus and flat-focus Z-stack
- Advanced software featuring high-resolution mosaic tiling, multi-position vessel scanning, auto counting and timelapse
- Outstanding versatility with a 5-position objective turret, 4-color fluorescence and both color and B/W cameras included
- Intuitively set environmental and image acquisition parameters
- Easily maintain physiological or nonphysiological conditions with precise controls
- Choice of a range of vessel holders

ORDERING INFORMATION:

- FL Auto — Dimensions (W × D × H): 343 × 472 × 322mm; 20Kg
- Onstage Incubator environment chamber — Dimensions (W × D × H): 255 × 190 × 37mm; 1.5kg
- Onstage Incubator control unit — Dimensions (W × D × H): 370 × 160 × 200mm; 10kg

INCLUDING:

- FL Auto — 22" USB Multi-Touch Monitor, software installed computer, accessory kit
- Onstage Incubator — Control box, heated glass, lower body incubator, light shield with window, accessory kit

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

FOTO/Analyst Imaging Systems

FOTODYNE imaging solutions come in a large variety of configurations. For a complete menu of options, visit Fishersci.com.

Apprentice — Economical Digital Imaging Solutions

- Entry-level systems combine high-resolution color digital cameras and inexpensive photographic hoods for basic gel documentation.

FOTODYNE Cat No: 6-4001
Fisher Cat No: 14-700-100

Express — Entry-level CCD Systems

- Live images and greater sensitivity provided by scientific-grade CCD cameras make these hood-mount gel documentation systems a step up from their Apprentice counterparts

FOTODYNE Cat No: 6-3115-NP
Fisher Cat No: FD63115NP

ImageTech — Touchscreen Simplicity

- Capture digital gel images without the need for a separate computer. Controlled by an intuitive touchscreen interface.

FOTODYNE Cat No: 6-9010UV-NP
Fisher Cat No: F69010UVNP

Investigator/Eclipse — Basic Benchtop Darkroom Systems

- These popular gel documentation workstations feature our space-saving FOTO/Eclipse benchtop darkroom with manual zoom lens and filter selection.

FOTODYNE Cat No: 6-1710DL
Fisher Cat No: FD61710DL

Investigator/FX — Motorized Fluorescent and Visible Imaging

- Our most customizable imaging workstation. Choose system features based on your needs — camera, motorized zoom lens, illumination wavelengths and more.

FOTODYNE Cat No: 7-1560DL-NP
Fisher Cat No: FB71560DLNP

Luminary/FX — Flexible Chemiluminescent Flourescent and Visible Imaging

- Top-of-the-line cooled CCD camera workstations for digital documentation of chemiluminescent and fluorescent western blots, gels and more.

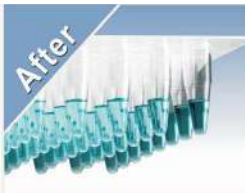
FOTODYNE Cat No: 7-1720S2DL-NP
Fisher Cat No: FD1720S2DLNP

Fisher Scientific™ Mini Plate Spinner Centrifuge

Two standard microplates are loaded through an opening in the top of the unit. Sealed plates are loaded vertically and surface tension keeps samples in place so there is no danger of spilling samples. Once the lid is closed, the rotor quickly accelerates to 2,500 rpm. Pressing the open button engages the friction brake and brings the rotor to a rapid stop. For temperature sensitive applications, the Plate Spinner may be used in a cold room.

- Speed: 2500rpm
- Capacity: 2 plates
- Weight: 3.5lbs
- Dimensions: 6in. × 6in. × 7in.
- Exceptionally small footprint
- Rotor designed for rapid start to stop

Electrical Requirements	Cat. No.	Price
120V	**14-100-143**	$650
230V	**14-100-141**	$650



New 25mL AcroSeal™ packaging

ACROS ORGANICS
Part of Thermo Fisher Scientific

The recent introduction of a 25mL pack size to our industry-leading AcroSeal packaging range meets your needs for applications where small research-scale quantities of extra dry solvents are required. Designed for your convenience, each bottle is packed using our new septum to ensure optimum performance in your moisture-sensitive work. The new 25mL package size expands our AcroSeal portfolio to better meet your chemistry needs.

Discover the products available:

CAS No.	Description	Pack size	Fisher Cat. No.
75-05-8	Acetonitrile, 99.9%, Extra Dry	4 × 25mL	**AC448391000**
75-09-2	Dichloromethane, 99.9%, Extra Dry, stabilized	4 × 25mL	**AC448371000**
60-29-7	Diethyl ether, 99.5%, Extra Dry, stabilized	4 × 25mL	**AC448421000**
68-12-2	N,N-Dimethylformamide, 99.8%, Extra Dry	4 × 25mL	**AC448381000**
123-91-1	1,4-Dioxane, 99.8%, Extra Dry, stabilized	4 × 25mL	**AC450171000**
67-56-1	Methanol, 99.9%, Extra Dry	4 × 25mL	**AC448411000**
109-99-9	Tetrahydrofuran, 99.85%, Extra Dry, stabilized	4 × 25mL	**AC448361000**
108-88-3	Toluene, 99.85%, Extra Dry	4 × 25mL	**AC448401000**

Highlights

- **Convenience:** Ideal for use when requiring small quantities
- **Easy to use:** Solvent is easily extracted with a standard needle
- **Quality:** Water content guaranteed at less than 50 parts per million

For more information, please visit: www.fishersci.com/acroseal

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Gilson PIPETMAN™ L

PIPETMAN™ L Single-Channel and Multichannel Pipets

The new PIPETMAN L combines the PIPETMAN Classic legendary robustness, a newly designed body and a state-of-the-art locking mechanism, guaranteeing that there will be no accidental changes in volume during your pipetting cycles. Based on ergonomics, comfort and traceability research, PIPETMAN L is designed to ensure a perfect fit and reduce tensions while holding it for extended periods of time.

FA10001MG

- Reduced tip ejection forces by 50%
- 2D identification code for optimum traceability of product information
- Universal tip holder — fits most brands of tips
- Option of metal or plastic tip ejector for use with corrosive samples
- Lightweight and extremely low forces to reduce RSI

Model	Volume Range	Color Code	Mfr. No.	Cat. No.	Each
Stainless-Steel Tip Ejector					
P2L	0.2 to 2µL	Orange	FA10001M	**FA10001MG**	350.00
P10L	1 to 10µL	Red	FA10002M	**FA10002MG**	350.00
P20L	2 to 20µL	Pale Yellow	FA10003M	**FA10003MG**	350.00
P100L	10 to 100µL	Salmon	FA10004M	**FA10004MG**	350.00
P200L	20 to 200µL	Yellow	FA10005M	**FA10005MG**	350.00
P1000L	100 to 1000µL	Blue	FA10006M	**FA10006MG**	350.00
Plastic Tip Ejector					
P2L	0.2 to 2µL	Orange	FA10001P	**FA10001PG**	350.00
P10L	1 to 10µL	Red	FA10002P	**FA10002PG**	350.00
P20L	2 to 20µL	Pale Yellow	FA10003P	**FA10003PG**	350.00
P100L	10 to 100µL	Salmon	FA10004P	**FA10004PG**	350.00
P200L	20 to 200µL	Yellow	FA10005P	**FA10005PG**	350.00
P1000L	100 to 1000µL	Blue	FA10006P	**FA10006PG**	350.00
Without Tip Ejector					
P5000L	500 to 5000µL	Purple	FA10007	**FA10007G**	350.00
P10mL	1 to 10mL	Pale Blue	FA10008	**FA10008G**	350.00

FA10011G

In addition to the innovative features of the PIPETMAN L Single-Channel, the PIPETMAN L Multichannel offers solutions for higher throughput. The L Multichannel offers incredibly high accuracy and consistency of measurement on each and every channel when aspirating and dispensing so concerns about inaccurate results are not an issue.

Description	Volume Range	Mfr. No.	Cat. No.	Each
P8X20L	2 to 20µL	FA10009	**FA10009G**	751.00
P12X20L	2 to 20µL	FA10010	**FA10010G**	937.00
P8X200L	20 to 200µL	FA10011	**FA10011G**	751.00
P12X200L	20 to 200µL	FA10012	**FA10012G**	937.00
P8X10L	0.5 to 10µL	FA10013	**FA10013G**	751.00
P12X10L	0.5 to 10µL	FA10014	**FA10014G**	937.00
P8X300L	20 to 300µL	FA10015	**FA10015G**	751.00
P12X300L	20 to 300µL	FA10016	**FA10016G**	937.00

PIPETMAN™ L Fixed Pipets

Enjoy the advantages of PIPETMAN L in a fixed-volume format.

- Graduated cover can be readjusted by users in the laboratory for dense and viscous fluids
- For convenient access to the serviceable parts, the pipet is equipped with the Gilson clip ejector
- No risk of error in desired volume

Model	Volume Range	Color Code	Mfr. No.	Cat. No.	Each
F1L	1µL	Red	FA10017	**FA10017G**	232.00
F2L	2µL	Red	FA10018	**FA10018G**	232.00
F5L	5µL	Red	FA10019	**FA10019G**	232.00
F10L	10µL	Red	FA10020	**FA10020G**	232.00
F20L	20µL	Yellow	FA10021	**FA10021G**	232.00
F25L	25µL	Yellow	FA10022	**FA10022G**	232.00
F50L	50µL	Yellow	FA10023	**FA10023G**	232.00
F100L	100µL	Yellow	FA10024	**FA10024G**	232.00
F200L	200µL	Yellow	FA10025	**FA10025G**	232.00
F250L	250µL	Green	FA10026	**FA10026G**	232.00
F300L	300µL	Blue	FA10027	**FA10027G**	232.00
F400L	400µL	Blue	FA10028	**FA10028G**	232.00
F500L	500µL	Blue	FA10029	**FA10029G**	232.00
F1000L	1000µL	Blue	FA10030	**FA10030G**	232.00
F5000L	5000µL	Purple	FA10031	**FA10031G**	232.00

Note: Products are not available through Fisher Scientific in Canada.

Heidolph

Heidolph Hei-VAP Rotary Evaporators

Unique Features are standard no matter which of our Rotary Evaporators you choose:

- Same robust platform no matter which series ordered
- Only Hei-VAP heating baths reach an industry-leading temperature of 210°C
- Patented nonstick vapor tube clamping sleeve that alleviates the norm of glass-on-metal drive in the vapor tube
- Tethered operating panel that can be controlled at a safe distance or outside a fume hood
- Only bath that accommodates up to a 5L evaporating flask
- Safety bath will power off if temperature overshoots by 5°C or runs dry
- Voltage: 115V (220V upon request)
- Three year warranty you can depend on
- Pre and post support from Heidolph specialists

13-878-514

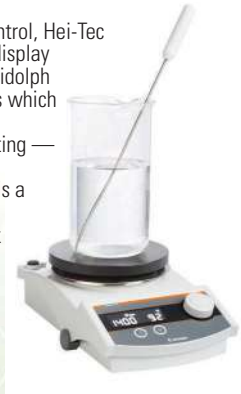
Hei-VAP Value	Hei-VAP Value Digital	Hei-VAP Advantage	Hei-VAP Precision	Hei-VAP Precision
Hand Lift	***Hand Lift***	***Hand Lift***	***Hand Lift***	***Motor Lift***
Analog dials for: adjust rotation speed and heating bath temp	Digital display for: set and actual heating bath temp (analog knob for rotation)	Digital display for: timer, vapor temp, rotation and bath temp	Digital display for: vacuum control, heating bath temp, timer, rotation and vapor (store Favorites)	Digital display for: vacuum control, heating bath temp, timer, rotation and vapor (store Favorites)
Glassware G1B (coated) diagonal condenser				
036000090 **13-876-306**	036000033 **05-404-501**	036000250 **13-878-412**	036001050 **13-878-492**	036001250 **13-878-512**
Glassware G3B (coated) vertical condenser				
036000110 **13-876-308**	036000053 **05-404-503**	036000270 **13-878-414**	036001070 **13-878-494**	036001270 **13-878-514**
Glassware G5B (coated) dry ice condenser				
036000130 **13-876-310**	036000073 **05-404-503**	036000310 **13-878-418**	036001110 **13-878-498**	036001310 **13-878-518**

Note: Non-coated glassware configurations available for any system

Heidolph Magnetic Stirring Hotplates

Comes in 3 versions: Hei-Standard w/ analog control, Hei-Tec w/ digital controls and Hei-End w/ digital temp display

- To prevent accidental or laboratory fires, all Heidolph stirrers feature two independent safety circuits which switch off heating in case of overtemperature
- A separate ON/OFF illuminated switch for heating — safety standard for most labs
- 145mm round plate is made of Kera disk. This is a highly chemical-resistant and scratch-proof surface, providing fast heat-up times and quick heat transfer (135mm hotplates available)
- Heidolph hotplates are the only hotplates that are made of aluminum die-cast housing, categorically ruling out damage or fires to your hotplates even when exposed to the highest temperatures
- Strong magnetic field
- Max. Speed: 1400rpm
- Hotplate temp range: 20–300w/ 600w heating power
- Stirring capacity: 20L water
- Voltage: 115V (220V upon request)
- Three year warranty



Description	Mfr. No.	Cat. No.	Each
Hei-Standard w/ EKT	036110599	**05-405-405**	$1,451.79
Hei-Standard w/ EKT, rod and clamp	036111210	**13-889-339**	$1,258.00
Hei-Tec w/ PT1000	036110582	**13-876-751**	$1,165.00
Hei-Tec w/ PT1000, rod and clamp	036110573	**13-876-206**	$1,287.00
Hei-End w/ PT1000	036110592	**13-876-752**	$2,077.25
Hei-End w/ PT1000, rod and clamp	036110594	**05-405-410**	$2,211.70

Heidolph Overhead Stirrers

Heidolph Overhead Stirrers provide the best mixing results for a wide range of applications while ensuring the highest safety and increased performance life.

- Sparkless and maintenance-free motors backed by a three year warranty
- Important for continuous operation: the motor will be switched off if a high thermal load situation occurs to increase safety in your lab and to prevent accidents.
- A through-shaft design allows for adjusting the impeller position to make height adjustments more convenient.
- Completely sealed housing protects your stirrer from aggressive fumes, liquids & vapors to prevent internal corrosion
- Voltage: 115V (220V upon request)

13-880-119

Heidolph Stirrer	Cat. No.	Stirring Quantity (H20)	Max. Viscosity	Speed Range (rpm)	Max. Torque at Chuck
RZR 1	036090000 **13-889-868**	20L	40,000mPas	35-250 280-2200	100 Ncm
RZR2021	036090050 **13-880-111**	25L	60,000mPas	40-400 200-2000	400 Ncm
RZR 2041	036090070 **13-880-113**	40L	100,000mPas	40-400 200-2000	520 Ncm
RZR 2051 control	036090090 **13-880-115**	20L	10,000mPas	50-2000	20 Ncm 40
RZR 2052 control	036090110 **13-880-117**	100L	40,000mPas	30-1000	90 Ncm 180
RZR 2102 control	036090130 **13-880-119**	100L	100,000mPas	12-400 60-2000	200 Ncm 400

Heidolph Reactors

Reactor Ready

- 250mL up to 5L vessels
- Temp Range -60°C to +190°C
- Self aligning stirrer coupling
- Quick-release hose coupling allows for rapid exchange
- No tools required to exchange vessels

Reactor Ready Duo

- 100mL up to 5L vessels
- Temp Range -60°C to +190°C
- System accepts 2 overhead stirrers which can be operated and moved independently
- Two-stage reaction: transfer reactant from one vessel to the other

Reactor Ready Pilot

- 5L up to 20L vessels
- Temp Range -60°C to +230°C
- Optional software allows you to log and control parameters
- Compact mobile framework, fits all vessels

In addition to the core you will need vacuum jackets or single jacketed vessels/vessel kits, propellers and overhead stirrers. We also offer a full line of thermoregulators, adapters and hoses.

**All Heidolph reactors come with a one-year warranty*

Description	Mfr. No.	Cat. No.	Each
Reactor Ready	015950100	**05-405-254**	$11,848.88
Reactor Ready Duo	015970100	**13-889-560**	$14,266.20
Reactor Ready Pilot	015908000	**13-889-561**	$20,402.93

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Heidolph

Heidolph Tuttnauer Benchtop Sterilizers

Heidolph Sterilizers/Autoclaves provide a fast, safe, dependable and convenient means of sterilizing liquids, media, instruments, glassware, clothing and waste. The line includes a wide range of models from our economic manually controlled analog models to our electronically controlled models w/ optional built-in printer for GLP-compliant documentation.

02-964-19

02-964-10

- Self-contained design eliminates external plumbing and hardwiring for easy installation
- ASME stamped, 316 L stainless-steel chamber ensures long lasting durability and high corrosion resistance
- Automatic shut-off feature saves energy
- Over-temp cut off and over-pressure valve
- Comes with stainless steel trays
- UL and CSA approved
- 1 year warranty

Description	Model	Chamber	Voltage	Mfr. No.	Cat. No.	Each
1730M	Manual	17.8 × 30.5cm	120V	023210002	**02-964-1**	$4,681.00
2340M	Manual	22.9 × 45.7cm	120V	023210100	**02-964-3**	$5,350.00
2540M	Manual	25.4 × 45.7cm	120V	023210304	**02-964-19**	$6,196.00
3545M	Manual	31.0 × 46.9cm	220V	023210631	**02-964-40**	$9,670.00
3850M	Manual	38.1 × 50.8cm	220V	023210479	**02-964-26**	$13,836.00
3870M	Manual	38.1x 68.6cm	220V	023210550	**02-964-13**	$18,197.00
2340E	Electronic	22.9 × 45.7cm	120V	023210207	**02-964-5**	$6,629.00
2540E	Electronic	25.4x 45.7cm	120V	023210401	**02-964-9**	$7,362.00
3545E	Electronic	31.0 × 46.9cm	220V	023210665	**02-964-41**	$10,368.00
3850E	Electronic	38.1 × 50.8cm	220V	023210487	**02-964-27**	$16,162.00
3870E	Electronic	38.1 × 68.6cm	220V	023210606	**02-964-10B**	$20,998.00
2340EP	Electronic w/ printer	22.9 × 45.7cm	120V	023210215	**02-964-7**	$7,175.00
2540EP	Electronic w/ printer	25.4 × 45.75cm	120V	023210410	**02-964-10**	$7,910.00
3545EP	Electronic w/ printer	31.0 × 46.9cm	220V	023210690	**02-964-42**	$10,959.00
3850EP	Electronic w/ printer	38.1 × 50.8cm	220V	023210495	**02-964-28**	$16,398.00
3870EP	Electronic w/ printer	38.1 × 68.6cm	220V	023210568	**02-964-14**	$21,124.00

Heidolph Vortexer

Heidolph Vortexers are ideal for mixing samples in tubes, vials and similar vessels of different diameters at extremely high speed rates.

Reax

- Strong 5mm vibrating orbit
- Operating modes: Continuous and Automatic
- Rotation Speed: 0 to 2500rpm
- Analog dial speed control, accurate rpm number settings

13-889-310

Multi Reax

- Unique shaker accommodates up to 26 vessels w/ various diameters from 10 to 16mm and attachment for 12 vessels w/ diameter from 16 to 32mm (included)
- 3mm vibration orbit
- Set and adjust variable speed from 50 to 2000rpm w/ digital display
- Voltage: 115V (220V upon request)
- Input Power: 51w
- Overheat Protection: Self resetting
- Permissible ambient temp: 5°- 40°C at 85% RH
- Protection Class: IP 22
- Three-year warranty

13-889-410

Description	Mfr. No.	Cat. No.	Each
Reax Top	036130000	**13-889-310**	$349.00
Reax Control	036130020	**13-878-452**	$794.00
Multi Reax	036130040	**13-899-410**	$2,550.00

Heidolph Tuttnauer Vertical Sterilizers

The vertical laboratory autoclaves are top loading autoclaves available in chamber sizes between 31 to 160L. ELV models have an advanced microprocessor control panel and chamber made of 304L or 316Ti stainless steel. For life science applications the Heidolph Tuttnauer line successfully meets the challenges in today's laboratories with a flexible range of features.

13-880-102

- Sterilization temperature range 105°C to 138°C
- Sterilization time range 1-99 min.
- Printer, baskets, two temp probes are all included with vertical sterilizers
- Vertical units must be hard wired, hooked up to tap water and mineral-free water, and near a drain
- A separate air compressor will be required for the ELVC models, this is for a faster cooling system
- Control Bacsoft — user friendly control system w/ multi color 70 x 50mm display
- Multiple languages
- UL and CSA approved
- One-year warranty
- Offers 10 sterilization programs as follows: Glass, plastic, liquid A, liquid B-waste, Liquid B-waste cooling, vacuum test, bio haz liquid cooling, bio haz liquid, and Bio Hazard

Description	Chamber	Voltage	Mfr. No.	Cat. No.	Each
Vertical Autoclave 2840ELV	28 × 46cm	220V	023210915	**13-889-562**	$13,600.00
Vertical Autoclave 2840ELVC, cooling	28 × 46cm	220V	023210916	**13-889-563**	$15,600.00
Vertical Autoclave 3850ELV	38 × 48cm	220V	023210920	**13-880-102**	$18,618.00
Vertical Autoclave 3850ELVC, cooling	38 × 48cm	220V	023210930	**13-880-103**	$21,101.00
Vertical Autoclave 3870ELV	38 × 68cm	220V	023210940	**13-880-104**	$22,659.00
Vertical Autoclave 3870ELVC, cooling	38 × 68cm	220V	023210950	**13-889-564**	$24,826.00
Vertical Autoclave 3870ELV, mobile reservoir	38 × 70cm	220V	023210745	**13-876-750**	$24,116.00
Vertical Autoclave 5075ELV	50 × 75cm	220V	023210980	**13-900-102**	$36,673.00
Vertical Autoclave 5075ELVC, cooling	50 × 75cm	220V	023210990	**13-900-103**	$37,923.00

Heidolph Benchtop Shakers

Complete range of benchtop shakers provide six specific shaker movements to choose from, depending on your research. This makes Heidolph the right choice for the motion your application demands.

13-787-477

- Six different motions, from one-to-three dimensional movements
- Three different load capacities
- Optional upgrade to an incubator shaker
- Sealed motor housing protects your shaker from any liquids or vapors that could create corrosion
- Maintenance free motors reduce your risk of any repairs or down time
- Voltage: 115V (220V upon request)
- Overheat Protection: Self resetting
- Permissible ambient temp: 5°- 40°C at 85% RH
- Three-year warranty

Description	Motion	Mfr. No.	Cat. No.	Each
Titramax 101	Vibrate	036130080	**13-889-871**	$1,716.00
Titramax 1000	Vibrate	036130100	**13-889-420**	$2,108.04
Titramax Pkg w/ incubator	Vibrate	036130500	**13-787-477**	$4,845.87
Vibramax 110	Vibrate	036130140	**13-878-454**	$1,763.76
Rotamax 120	Orbital	036130160	**13-878-521**	$1,990.00
Unimax 1010	Orbital	036130180	**13-889-421**	$2,886.70
Unimax Pkg w/ incubator	Orbital	036130520	**13-878-473**	$5,575.89
Promax 1020	Reciprocating	036130220	**13-878-456**	$2,811.35
Duomax 1030 (5 Angle)	Rocking	036130260	**13-878-475**	$2,656.32
Polymax 1040 (5 Angle)	Wave	036130300	**13-878-4460**	$2,729.80

Uvex Stealth® Safety Goggles

UVEX™ by Honeywell

Exceptional Performance

- Low profile design and indirect venting system for chemical splash and impact protection.
- Frame and lens are impact resistant and provide 99.9% protection from harmful UV rays.
- Uvextreme® anti-fog lens coating and indirect ventilation system minimize fogging.
- Also available with Dura-streme™ dual coating technology which provides anti-fog protection on the interior of the lens and a scratch-resistant hardcoat on the exterior of the lens for 3X* longer lens life.
- Available in Clear, Amber and Gray lens tints for a variety of applications.
- Meets ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Superior Comfort & Fit

- Toric lens provides superior optics and unobstructed peripheral vision.
- Soft, elastomer body flexes and conforms to the face for a secure, comfortable, gap-free fit.
- Pivoting, quick-adjust headband provides easy adjustment for a comfortable fit.

Product Platform Advantages & Value

- One of the easiest and most cost effective lens replacement systems on the market.
- Lens replacement system allows for multiple lens tints and extends the life of the goggle.
- Advanced lens coating options extend the life of the lens.
- Rx insert provides flexibility for workers who require vision correction.

Goggles

Mfr. No.	Body Color	Lens Tint	Lens Coating	Headband	Upc Code
S39630C	Orange/Gray	Clear	Uvextreme AF	Neoprene Band	603390121682
S39630CI	Orange/Gray	Clear	Uvextreme AF	Fabric Headband	603390121692
S39631C	Orange/Gray	Gray	Uvextreme AF	Neoprene Band	603390121708
S3960C	Gray/Gray	Clear	Uvextreme AF	Neoprene Band	603390035883
S3960D	Gray/Gray	Clear	Dura-streme HC/AF	Neoprene Band	603390122873
S3960CI	Gray/Gray	Clear	Uvextreme AF	Fabric Headband	603390039331
S3961C	Gray/Gray	Gray	Uvextreme AF	Neoprene Band	603390035890
S3962C	Gray/Gray	Amber	Uvextreme AF	Neoprene Band	603390035937
S39610C	Teal/Gray	Clear	Uvextreme AF	Neoprene Band	603390035906
S39611C	Teal/Gray	Gray	Uvextreme AF	Neoprene Band	603390035913

Replacement Lenses

Mfr. No.	Lens Tint	Lens Coating	Upc Code
S700C	Clear Repl. Lens	Uvextreme AF	603390035975
S700D	Clear Repl. Lens	Dura-streme HC/AF	603390122903
S701C	Gray Repl. Lens	Uvextreme AF	603390035982
S702C	Amber Repl. Lens	Uvextreme AF	603390035999

Accessories

Mfr. No.	Description	Upc Code
S3959	Rx Carrier	603390039997
S8999	Rx Pattern	603390043093
S821	Gray Neoprene Band w/out Slides	603390038150
S823	Gray Flame Retardant Fabric Band	603390025464

Uvextreme® anti-fog coating performs under the most extreme conditions and will not wear off after repeated cleanings.
It is permanently bonded to the lens and retains antiscratch, anti-static and UV protection properties.
Uvex Dura-streme™ lenses combine our two best lens coatings on one lens: Ultra-dura on the exterior and Uvextreme on the interior to provide up to 3x more lens life.*
**Comparative lens life test performed using a Bayer Abrasion Test method and may vary between environment and application.*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

KIMBERLY-CLARK™ Nitrile Exam Gloves

When we say KIMBERLY-CLARK™ Nitrile Exam Gloves deliver, we've got plenty to back us up. Like extraordinary protection, performance and value. It's an impressive package of benefits that is easy to get your hands around. And it's all yours when you choose KIMBERLY-CLARK™ PURPLE NITRILE™ Exam Gloves, KIMBERLY-CLARK™ STERLING™ Nitrile Exam Gloves or KIMBERLY-CLARK™ LAVENDER™ Nitrile Exam Gloves. Choose the right glove for your task and budget and feel confident that you're getting outstanding quality and reliability from the brand you trust. Best Protection. Best Performance. Best Value.

Kimberly-Clark PROFESSIONAL | Exceptional Workplaces

INCLUDES:

- Natural rubber latex-free
- Ambidextrous
- Beaded cuff
- Textured fingertip
- AQL 1.5
- Can be recycled in the RIGHTCYCLE™ Program
- PURPLE NITRILE and STERLING* Exam gloves (9.5" and 12") are cleared for use with chemotherapy
- PURPLE NITRILE-XTRA* and STERLING NITRILE-XTRA* gloves meet NFPA 1999:2013 standards

Description	Color	KCP Code	Cat. No.	Gloves/Box	Total/Case
KIMBERLY-CLARK™ STERLING™ Nitrile Exam Gloves, 9.5" Ambi – X-Small	Sterling	50705	**19-149-863**	200	2,000
KIMBERLY-CLARK STERLING Nitrile Exam Gloves, 9.5" Ambi – Small	Sterling	50706	**19-149-863A**	200	2,000
KIMBERLY-CLARK STERLING Nitrile Exam Gloves, 9.5" Ambi – Medium	Sterling	50707	**19-149-863B**	200	2,000
KIMBERLY-CLARK STERLING Nitrile Exam Gloves, 9.5" Ambi – Large	Sterling	50708	**19-149-863C**	200	2,000
KIMBERLY-CLARK STERLING Nitrile Exam Gloves, 9.5" Ambi – X-Large	Sterling	50709	**19-149-863D**	170	1,700
KIMBERLY-CLARK STERLING NITRILE-XTRA™ Exam Gloves, 12" Ambi – X-Small	Sterling	53137	**19-050-590**	100	1,000
KIMBERLY-CLARK STERLING NITRILE-XTRA Exam Gloves, 12" Ambi – Small	Sterling	53138	**19-050-591**	100	1,000
KIMBERLY-CLARK STERLING NITRILE-XTRA Exam Gloves, 12" Ambi – Medium	Sterling	53139	**19-050-592**	100	1,000
KIMBERLY-CLARK STERLING NITRILE-XTRA Exam Gloves, 12" Ambi – Large	Sterling	53140	**19-050-593**	100	1,000
KIMBERLY-CLARK STERLING NITRILE-XTRA Exam Gloves, 12" Ambi – X-Large	Sterling	53141	**19-050-595**	100	1,000
KIMBERLY-CLARK PURPLE NITRILE™ Exam Gloves, 9.5" Ambi – X-Small	Purple	55080	**19-149-863**	100	1,000
KIMBERLY-CLARK PURPLE NITRILE Exam Gloves, 9.5" Ambi – Small	Purple	55081	**19-149-863A**	100	1,000
KIMBERLY-CLARK PURPLE NITRILE Exam Gloves, 9.5" Ambi – Medium	Purple	55082	**19-149-863B**	100	1,000
KIMBERLY-CLARK PURPLE NITRILE Exam Gloves, 9.5" Ambi – Large	Purple	55083	**19-149-863C**	100	1,000
KIMBERLY-CLARK PURPLE NITRILE Exam Gloves, 9.5" Ambi – X-Large	Purple	55084	**19-149-863D**	90	900
KIMBERLY-CLARK PURPLE NITRILE -XTRA™ Exam Gloves, 12" Ambi – X-Small	Purple	55090	**19-149-864**	50	500
KIMBERLY-CLARK PURPLE NITRILE -XTRA Exam Gloves, 12" Ambi – Small	Purple	50601	**19-149-864A**	50	500
KIMBERLY-CLARK PURPLE NITRILE -XTRA Exam Gloves, 12" Ambi – Medium	Purple	50602	**19-149-864B**	50	500
KIMBERLY-CLARK PURPLE NITRILE -XTRA Exam Gloves, 12" Ambi – Large	Purple	50603	**19-149-864C**	50	500
KIMBERLY-CLARK PURPLE NITRILE -XTRA Exam Gloves, 12" Ambi – X-Large	Purple	50604	**19-149-864D**	50	500
KIMBERLY-CLARK LAVENDER™ Exam Gloves, 9.5" Ambi – X-Small	Lavender	52816	**19-150-200**	250	2,500
KIMBERLY-CLARK LAVENDER Exam Gloves, 9.5" Ambi – Small	Lavender	52817	**19-150-201**	250	2,500
KIMBERLY-CLARK LAVENDER Exam Gloves, 9.5" Ambi – Medium	Lavender	52818	**19-150-202**	250	2,500
KIMBERLY-CLARK LAVENDER Exam Gloves, 9.5" Ambi – Large	Lavender	52819	**19-150-203**	250	2,500
KIMBERLY-CLARK LAVENDER Exam Gloves, 9.5" Ambi – X-Large	Lavender	52820	**19-150-204**	230	2,300

Lovibond™ MD600 Multi-Parameter Colorimeter

The MD600 Multi-Parameter Colorimeter is ideal for laboratory or field use.
This waterproof instrument is easy-to-use and ideal for a wide range of water quality parameters.

Features

- Over 100 water quality parameters and 20 user-defined methods (10 with calibration point input, 10 with polynomial input)
- User favorites menu
- On-screen assistance
- Six wavelength photo detector array
- User interface in English, German, French, Spanish, Italian, Portuguese and Polish
- Internal memory stores up to 1000 data sets which can be transferred to a computer
- Operating conditions: 41° to 104°F; 30-90% relative humidity

Includes

- MD600 Colorimeter
- 3 × 24 mm cells and adapter
- 3 × 16 mm cells and adapter
- Batteries, manual and Certificate of Conformity

Description	Mfr. No.	Cat. No.	Each
MD600 Multi-Parameter Colorimeter	214020	**15-398-470**	1166.12
Sample Cells, 24 mm (pack of 12)	197620	**15-398-471**	12/58.00
Sample Cells, 16 mm (pack of 10)	197665	**15-398-472**	10/40.45

Qorpak™ Amber Glass Screw Cap Vials

Amber Glass Screw Cap Vials offer protection from harmful light and UV rays for light sensitive products. These general purpose screw thread vials are made of Type I Borosilicate glass, providing exceptional resistance to heat shock and chemical leaching.

Select vials without caps or choose from a wide variety of screw caps, including polypropylene (PP) caps or thermoset and phenolic caps with several different liners.

Amber Borosilicate Sample Vials

Size mm	Capac. dram (ml)	Neck Finish	Mfr. No.	Cat. No.	Case Qty.
Vial Only					
12 × 35	.50 (1.85)	8-425	GLA-05670	**02992972**	144
15 × 45	1 (4)	13-425	GLA-05558	**02993261**	144
17 × 60	2 (7.5)	15-425	GLA-00799	**02993020**	144
20.7 × 70	4 (15)	18-400	GLA-04874	**02993107**	144
27.75 × 57	5 (20)	24-400	GLA-00801	**02991507**	144
27.75 × 95	10 (40)	24-400	GLA-00802	**02991516**	72
With Green Thermoset F217 & PTFE Caps Attached					
12 × 35	.50 (1.85)	8-425	GLC-06786	**02993171**	144
15 × 45	1 (4)	13-425	GLC-06787	**02992763**	144
17 × 60	2 (7.5)	15-425	GLC-06788	**02993397**	144
20.7 × 70	4 (15)	18-400	GLC-06789	**02992303**	144
27.75 × 57	5 (20)	24-400	GLC-01056	**02993253**	144
27.75 × 95	10 (40)	24-400	GLC-01065	**02991739**	144
With Green PP Hole Caps & PTFE/Silicone Septa Attached					
27.75 × 57	5 (20)	24-400	GLC-01058	**02991932**	144
27.75 × 95	10 (40)	24-400	GLC-01075	**02992598**	144
With Black Phenolic Pulp/Vinyl Caps Attached					
27.75 × 57	5 (20)	24-400	GLC-04885	**02991463**	144
27.75 × 95	10 (40)	24-400	GLC-04886	**02992614**	144
With Black Phenolic PolyCone Caps Attached					
27.75 × 57	5 (20)	24-400	GLC-01061	**02991758**	144
27.75 × 95	10 (40)	24-400	GLC-04892	**02992609**	144
With Black Phenolic Rubber Lined Caps Attached					
27.75 × 57	5 (20)	24-400	GLC-04918	**02992525**	144
27.75 × 95	10 (40)	24-400	GLC-05181	**02992622**	144

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Prices subject to change.

Sartorius Cubis® Premium Laboratory Balances

High Performance Weighing

Cubis Premium Laboratory Balances offer a never before seen freedom of choice, as it's the first and only laboratory balance featuring a modular design to configure display units, weighing modules, draft shields and interfaces, as well as be adapted to the changing requirements of different applications. It's for users who expect the best possible performance from a laboratory balance, but who only want to invest in what is necessary.

Benefits:

- **Only pay for what you need...** choose from different options to configure a balance to suit individual needs and obtain the optimal solution
- **Broad portfolio** ranging from ultra-micro to high capacity balances with high-precision weighing performance for fast and accurate results.
- **Safe & easy to use with Q-Guide...** specific tasks can be easily defined through the interactive operator guidance
- **Q-Level**, weigh with ease knowing your balance will always be level... Cubis is the only laboratory balance that automatically checks, performs and documents its exact leveling.
- Fast and straight-forward communication with **Q-Com** to make almost all forms of bi-directional communication possible. All models come standard with USB and RS-232C. MSA and MSU models also come standard with Ethernet and SD Card ports. Optional interface port for all weighing models < 20kg.
- Cubis is well-protected and **easy to clean** against fluid spillage and has an easily removable, high-grade stainless steel weigh pan & shield plate. In seconds, the balance can be ready again for measurements.
- **Q-Pan**, the need to position a sample exactly in the middle of the pan isn't as critical since it significantly reduces off-center load errors to promote safer, more accurate weighing.
- With **Q-Stat** integrated ionizer (DI draft shield only) and conductive coating on the glass panels, electrostatic charges on vessels and samples are quickly eliminated for stable, more accurate results.
- A wide selection of accessories can adapt to various vessel types for ergonomic operation and can also function in harsh workplace conditions for safer, more efficient weighing.
- **Cubis individual...** a more effective way to increase process efficiency and promote fail-safe reliability in the weighing process by implementing Q-Apps directly in the Cubis MSA.

Description	Mfr. No.	Cat. No.
Cubis Ultra-Micro w/ High Res. Color Touch Screen, Automatic round glass draft shield (2.1g × 0.1µg) w/Cert.	MSA2.7S0TRDM	**14-557-804**
Cubis Ultra-Micro w/ High Res. Color Touch Screen, Stainless Steel manual draft shield for weighing filters with diameters up to 50 mm; 75mm & 90mm options available (2.1g × 0.1µg) w/Cert.	MSA2.7S0TRDF	**14-558-123**
Cubis Micro w/ High Res. Color Touch Screen, Automatic round glass draft shield (6.1g × 1.0µg) w/Cert.	MSA6.6S0TRDM	**14-557-811**
Cubis Polyrange Micro w/ High Res. Color Touch Screen, Automatic round glass draft shield (1.1/2.1/3.1 g × 1.0/2.0/5.0 µg) w/Cert.	MSA3.6P0TRDM	**14-557-818**
Cubis Semi-Micro w/ High Res. Color Touch Screen, Auto Doors with Ionizer, Auto Level (220g × 0.01mg)	MSA225S100DI	**14-557-010**
Cubis Polyrange Semi-Micro w/ High Res. Color Touch Screen, Auto Doors with Ionizer, Auto Level (60/120/220 g × 0.01/0.02/0.05 mg)	MSA225P100DI	**14-557-012**
Cubis Semi-Micro w/ High Res. Color Touch Screen, Manual Doors w/ large draft shield, Auto Level (220g × 0.01mg)	MSA225S100DU	**14-557-019**
Cubis Analytical w/ High Res. Color Touch Screen, Auto Doors with Ionizer, Auto Level (220g × 0.1mg)	MSA224S100DI	**14-557-014**
Cubis Analytical w/ High Res. Color Touch Screen, Auto Doors with Ionizer, Auto Level (320g × 0.1mg)	MSA324S100DI	**14-557-016**
Cubis Analytical w/ High Res. Color Touch Screen, Auto Doors with Ionizer, Auto Level (520g × 0.1mg)	MSA524S100DI	**14-557-018**
Cubis Analytical w/ High Res. Color Touch Screen, Manual Doors w/ large draft shield, Auto Level (120g × 0.1mg)	MSA124S100DU	**14-557-254**
Cubis Analytical w/ High Res. Color Touch Screen, Manual Doors w/ large draft shield, Auto Level (220g × 0.1mg)	MSA224S100DU	**14-557-021**
Cubis Analytical w/ High Res. Color Touch Screen, Manual Doors w/ large draft shield, Auto Level (320g × 0.1mg)	MSA324S100DU	**14-557-022**
Cubis Precision (Milligram) w/ High Res. Color Touch Screen, Manual Doors w/ standard draft shield, Auto Level (620g × 0.001g)	MSA623S100DE	**14-557-023**
Cubis Precision (Milligram) w/ High Res. Color Touch Screen, Manual Doors w/ standard draft shield, Auto Level (1200g × 0.001g)	MSA1203S100DE	**14-557-024**
Cubis Precision (Milligram) w/ High Res. Color Touch Screen, Manual Doors w/ standard draft shield, Auto Level (3200g × 0.001g)	MSA3203S100DE	**14-557-025**
Cubis Toploader w/ High Res. Color Touch Screen, Auto Level (2200g × 0.01g)	MSA2202S100D0	**14-557-026**
Cubis Toploader w/ High Res. Color Touch Screen, Auto Level (4200g × 0.01g)	MSA4202S100D0	**14-557-027**
Cubis Toploader w/ High Res. Color Touch Screen, Auto Level (6200 g × 0.01g)	MSA6202S100D0	**14-557-028**
Cubis Toploader w/ High Res. Color Touch Screen (8200g × 0.01g)	MSA8202S000D0	**14-557-029**
Cubis Toploader w/ High Res. Color Touch Screen (8200g × 0.1g)	MSA8201S000D0	**14-557-030**

The above models are preconfigured Cubis balances that are typically in stock, but for an alternative model number to suit your individual weighing needs, use the **Build Your Cubis®** configurator.

See Special Offers on Sartorius Standard Balances

Buy a Secura®, Quintix®, Practum® & Entris® balance and get...visit www.fishersci.com/sartorius

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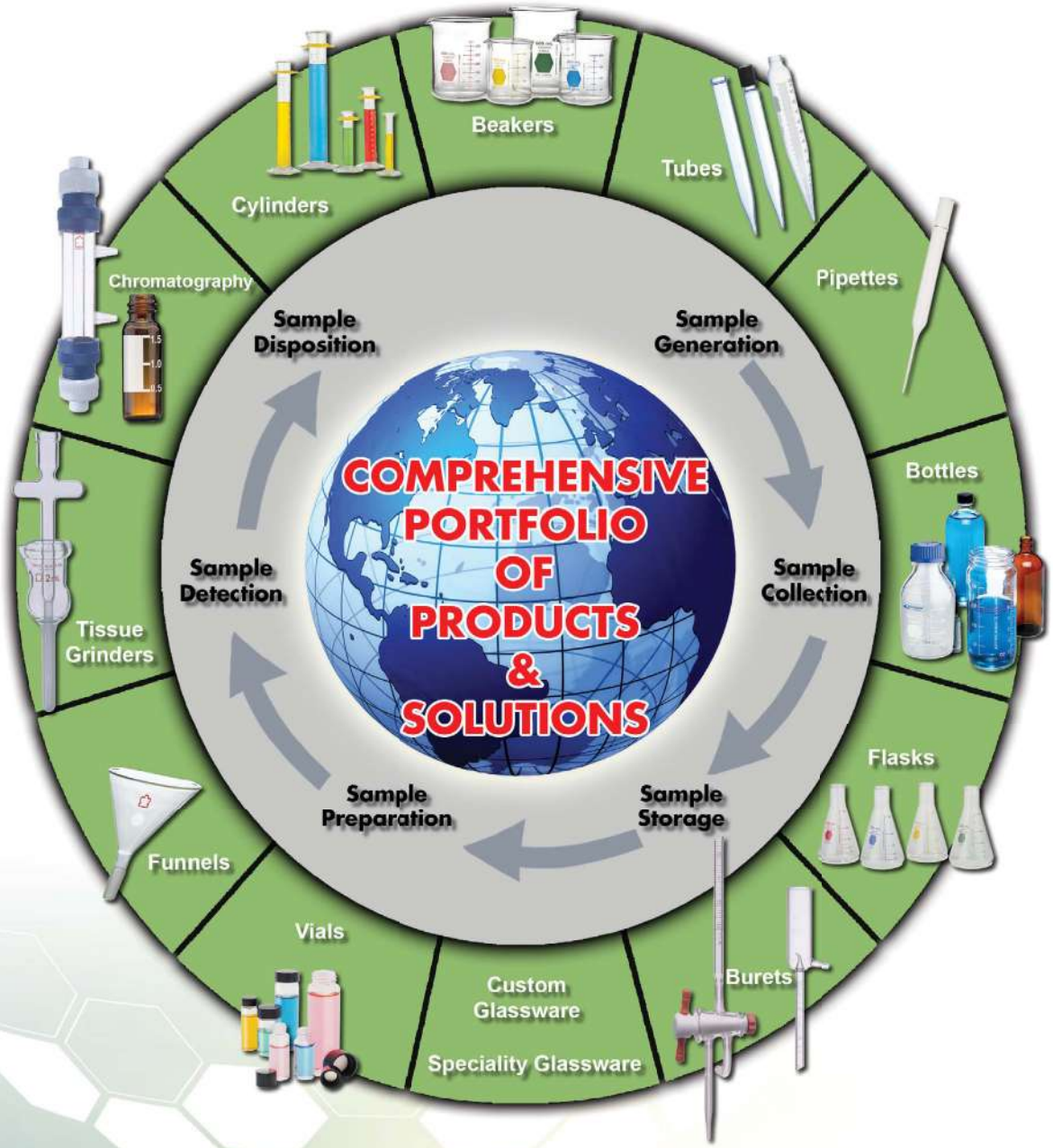

Fisher Scientific

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Prices subject to change.

Fisher Scientific™ Isotemp™ General Purpose Series Lab Refrigerators

Reliable cold storage for general-purpose applications

Isotemp General Purpose Series refrigerators and freezers offer the dependability and safety required for your daily lab applications.

- Capacities from 12 cu. ft. to 72 cu. ft.
- Range of sizes: from single-door to large capacity, three-door uprights
- Inner cabinet storage: choice of painted or stainless steel interiors
- Available with or without chart recorders

Performance

- Refrigerator cabinet temperature range: 1 to 12°C (factory setpoint 4°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of ±3°C and cabinet uniformity of ±3°C
- High-density, fluorine-free insulation
- Automatic defrost

Security

- Keyed on/off switch
- Optional chart recorder
- High/low, visual/audio alarms
- Choice of solid or glass lockable doors
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock

Quality

- Dual-pane glass or stainless-steel doors
- High-quality steel exterior
- Choice of painted or stainless-steel interior
- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- Standard access port

11-670-226

WARRANTY:
13 months parts and labor

CERTIFICATIONS:
UL listed, CSA approved

Capacity	Interior D × W × H	Exterior L × W × H	Chart Recorder	Door[s]/Shelves	Electrical Requirements	Weight	Cat. No.	Each
White painted exterior with white liner								
12 cu. ft.	20.75 × 21 × 45.75"	24 × 24 × 62"	No	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5A	230 lb.	**11-670-226**	4745.14
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	Yes	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-229**	5902.14
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	No	Solid stainless-steel door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-230**	4900.00
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	Yes	Solid stainless-steel door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-231**	5901.14
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	No	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	524 lb.	**11-670-244**	6291.45
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Yes	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	524 lb.	**11-670-245**	7169.18
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	No	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	561 lb.	**11-670-246**	6832.00
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	561 lb.	**11-670-247**	7721.20
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	No	Glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-250**	7169.18
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-251**	8049.11
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	No	Solid stainless-steel door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-252**	7169.18
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Solid stainless-steel door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-253**	8049.11
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	No	Glass door, triple/White – 12 Wire	115V 60Hz; 5-15P; 9.9A	730 lb.	**11-670-258**	9040.16
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Yes	Glass door, triple/White – 12 Wire	115V 60Hz; 5-15P; 9.9A	730 lb.	**11-670-259**	9920.09

Fisher Scientific™ Homogenizers – Powerful, Versatile, Affordable

The new line of Fisher Scientific Homogenizers fulfill all basic homogenizing needs. Three different drive systems are available to optimize your workflow while processing samples the fastest and most efficient way. A wide range of different homogenizing probes are available to match the respective sample to be processed.

Features

- **FSH 125** compact and lightweight handheld homogenizer up to 300 mL
- **FSH 500** powerful and efficient up to 4000 mL
- **FSH 1000** the power house up to 10000 mL
- All drive systems come with integrated electronic speed control
- All homogenizing generators made from stainless steel, easy to clean
- Two disposable generators available for high throughput sample volumes and prevention of any cross contamination
- 24 months warranty

If not otherwise stated, drive units, generators and other accessories are sold separately.

Cat. No.	Available drive systems	Suitable dispersing generators (sold separately)	Available accessories
08451660	FSH 125, 115V	5mm, 7mm,7mm disp, 10 mm	Stand FSH 125
08451661	FSH 125, 230V	5mm, 7mm,7mm disp, 10 mm	Stand FSH 125
08451662	FSH 125 Package, 115V	5mm, 7mm, 7mm disp, 10 mm included	Stand FSH 125 included
08451663	FSH 125 Package, 230V	5mm, 7mm, 7mm disp, 10mm included	Stand FSH 125 included
08451664	FSH 125 PCR KIT, 115V	100 × 7 mm disp included	Stand FSH 125
08451665	FSH 125 PCR KIT, 230V	100 × 7 mm disp included	Stand FSH 125
08451666	FSH 500, 115V	5mm, 7mm, 10mm, 20 mm, 25 mm	Stand FSH 500/1000
08451667	FSH 500, 230V	5mm, 7mm, 10mm, 20 mm, 25 mm	Stand FSH 500/1000
08451668	FSH 500 package, 115V	5mm, 7mm, 10mm, 20 mm, 25 mm	Stand FSH 500/1000 included
08451669	FSH 500 package, 230V	5mm, 7mm, 10mm, 20 mm, 25 mm	Stand FSH 500/1000 included
08451670	FSH 1000, 115V	5mm, 7mm, 10mm, 20 mm, 25 mm, 30mm, 35 mm	Stand FSH 500/1000
08451671	FSH 1000, 230V	5mm, 7mm, 10mm, 20 mm, 25 mm, 30mm, 35 mm	Stand FSH 500/1000
08451672	FSH 1000 package,115V	5mm, 7mm, 10mm, 20 mm, 25 mm, 30mm, 35 mm	Stand FSH 500/1000 included
08451673	FSH 1000 package, 230V	5mm, 7mm, 10mm, 20 mm, 25 mm, 30mm, 35 mm	Stand FSH 500/1000 included

Microflex™ Brand Nitrile Exam Glove

XCEED™

- Certified ergonomic glove design for reduced hand fatigue without limiting the ability to meet the tactile demands of your work
- Thinner, lighter examination glove with increased strength
- Lowest pin hole rates (AQL 0.65) sets a new standard for protection
- Smart packaged with 250 gloves/box, 2500 gloves/case (XL has 230 gloves/box)
- Textured fingertips for a great grip
- Not made from natural rubber latex

Ultraform™

- Unique, soft formulation forms to your hands effortlessly, as if it's a second skin
- In field tests, users wearing Ultraform gloves experienced an increase in fine motor task performance compared to a bare hand
- Certified ergonomic glove design for reduced hand fatigue
- Smart packaged with 300 gloves/box, 3000/case (XL has 250 gloves/box)
- Textured fingers for an improved grip
- Not made from natural rubber latex

Cobalt™

- This soft and stretchy nitrile glove is the best-selling glove from the High Five™ brand of products
- Durable and puncture resistant
- Unique, cobalt blue coloring
- Fully textured for a better grip in wet or dry conditions
- Packaged 100 gloves/box, 1000/case
- Not made from natural rubber latex

Blaze™

- High-visibility orange coloring provides protection you can see
- 5 mil thickness and an extended 10.5" cuff for additional protection in more demanding work areas
- Textured fingertips for increased gripping power
- Packaged 100/gloves/box, 1000/case
- Not made from natural rubber latex

Features	XC	UF	N19	N48
Finger Thickness (mils)	4.3	3.1	4.5	5.5
Tensile Strength (MPa)	33	25	20.5	20.5
Elasticity Elongation	500%	500%	600%	700%

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Oakton™ Benchtop Meters

PC 2700 Meter

Measures pH, mV, conductivity, TDS, ion concentration and temperature — ideal for water quality testing in the lab!

- Takes up less bench space — Overall footprint is nearly 40% smaller than other benchtop meters
- Oversized liquid crystal display with bright backlighting — Easier viewing under all lighting conditions
- Dynamic reading stability indication — Shows when your measurement is stable; eliminates guesswork from unstable readings
- Auto-standardization with cell constant recognition — Detect the exact cell constant value of your probe with the press of a button
- Up to 500 point nonvolatile memory with time-and-date stamp — Meets GLP requirements
- Bidirectional RS-232 for easy data transfer to your computer
- Additional performance features include pH autobuffer recognition, conductivity standard auto-calibration, calibration documentation and cal-due alarms, audible out-of-range alarms, password protection, electrode status and diagnostics, and more!
- Includes a high-performance 4-cell conductivity probe! — Higher accuracy across a broader range of samples

Cat. No.	Description	Included
13-300-211	PC 2700 meter only	Meter, electrode holder and AC adapter
13-620-454	PC 2700 meter	Meter, pH electrode with DJ, refillable, glass body; conductivity/temperature probe 35412-10, electrode holder, and AC adapter

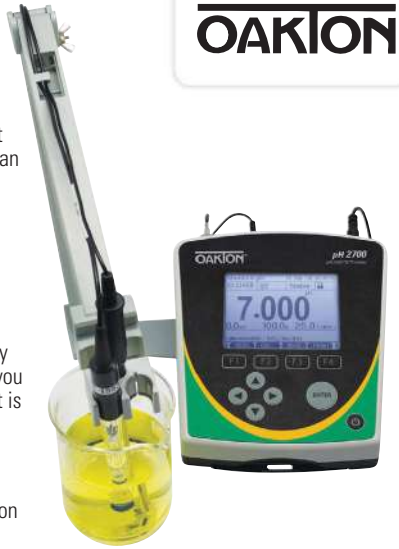
Temperature compensation: manual or automatic from -5°C to 105°C
Conductivity temp coefficient: adjustable from 0.0 to 10% per °F/°C
Conductivity cell constant: 0.010 to 10.000
Conductivity-to-TDS factor: adjustable from 0.4 to 1.0
Normalization temperature: adjustable from 15 to 30°C
Memory: up to 500 data sets
Output: RS-232, 9-pin female
Display: 3 1/4" × 2 7/16" (8.3 × 6.2 cm) graphic LCD with backlight
Operating temperature: 32 to 122°F, noncondensing probe
Power: universal 110/240 VAC with adapter; CSA/UL listed

Dimensions

Meter: 6 1/8" × 6 7/8" × 2 3/4" (15.5 × 17.5 × 6.9 cm)
Boxed: 12" × 9" × 5" (30.8 × 15.5 × 12.4 cm)
Weight: Meter only: 1.4 lbs (650 g); Boxed: 4 lbs (1800 g)

pH 2700 Meter

Advanced meters that meet GLP requirements



- Takes up less bench space – Overall footprint is nearly 40% smaller than other benchtop meters
- Oversized liquid crystal display with bright backlighting — Easier viewing under all lighting conditions
- Dynamic reading stability indication shows when you when your measurement is stable — Eliminates guesswork from unstable readings
- Auto pH buffer recognition for up to 6-point calibrations — Choose USA, NIST, DIN or custom buffer sets
- Up to 500 point nonvolatile memory with time-and-date stamp — Meets Good Laboratory Practice (GLP) requirements
- Bidirectional RS-232 — For easy data transfer to your computer
- Calibration documentation — Allows you to display, download, or print out calibration details like date and time, buffer valves, offset and slope
- Free communication software
- Cal-due alarms — Visual and audible reminders when recalibration is needed
- Audible out-of-range alarms —Indicate when a reading is above or below a user-settable range
- Electrode status — Provides the diagnostics needed to determine when electrode service or replacement is needed
- Password protection — Prevents unauthorized setup and calibration

Cat. No.	Description	Included
13-300-210	pH 2700 meter	Meter, electrode holder, and AC adapter
13-620-451	pH 2700 meter kit	Meter, pH electrode 35805-04, ATC temperature probe 35613-13, 60-mL of electrode fill solution, electrode holder, and AC adapter

Temperature compensation: manual or automatic from 0 to 100°C (32 to 212°F)
Memory: up to 500 data sets with time/date stamp
Output: RS-232, 9-pin female
Display: 3 1/4" × 27/16" (8.3 × 6.2 cm) graphic LCD with backlight
Operating temperature: 0 to 50°C (32 to 122°F), noncondensing humidity
Power: universal 110/240 VAC, 50/60 Hz with adapter; UL/CSA listed

Dimensions

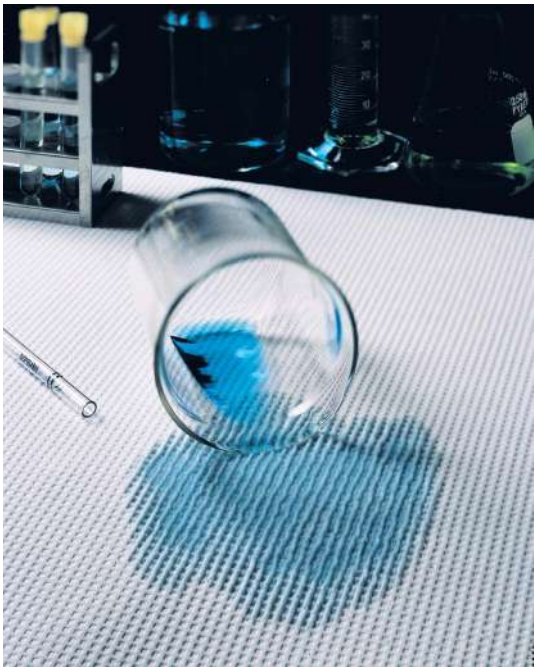
Meter: 6 1/8" × 6 7/8" × 2 3/4" (15.5 × 17.5 × 6.9 cm)
Boxed: 12" × 9" × 5" (30.8 × 15.5 × 12.4 cm)
Weight Meter only: 1.4 lb (0.6 kg); Boxed: 4 lb (1.8 kg)

Thermo Scientific™ Nalgene Versi-Dry Surface Protectors

Thermo Scientific™ Nalgene™ Versi-Dry™ Surface Protectors can help make your lab a safer place by quickly absorbing spills and cushioning breakable labware. Use Versi-Dry as a bench protector, shelf liner, cabinet liner or floor mat, or for wiping up isolated spills.

Thermo SCIENTIFIC

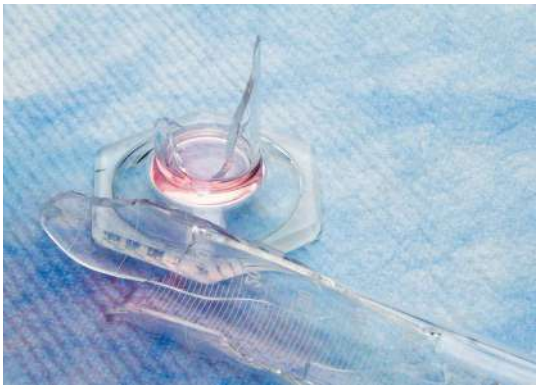
- Thousands of Thirsty-Cells™ quilted into the surface quickly absorb spills
- Available in white regular absorbency (750mL/m^2) or blue super absorbency (1050mL/m^2)
- Cushioned surface minimized breakage of fragile glassware when dropped or tipped over
- Low-pile sheets lie flat and are skid resistant helping to stabilize labware and prevent slipping
- Remains flat and won't curl up or warp with repeated wetting and drying
- Cloth-like top layer will not fall apart when wet
- Polyethylene backing prevents chemicals from breaking through to protected surfaces beneath



Versi-Dry resists the following Chemical spills:

Acetone	Methyl Iso Butyl Ketone (MIBK)
Ammonium Hydroxide, 30%*	Mineral Spirits
Chlorine Bleach	Nitric Acid, 10%*
Chlorobenzene	Phosphoric Acid, 10%*
Chloroform	Potassium Hydroxide, 30%*
Ethanolamine	Sulfuric Acid, 10%
Hydrochloric Acid, 10%*	Sodium Hydroxide, 10N*
Hydrofluoric Acid, 10%*	Toluene
Methylene Chloride	Xylene
Methyl Ethyl Ketone (MEK)	

**Highest concentration tested*



Nalgene Regular Versi-Dry Surface Protectors — absorbs 750mL/m^2

Mfr. No.	Cat. No.	L × W	No. per case
Mats			
62080-00	**14-206-32**	18 × 20"	350
Dispenser Rolls			
62050-00	**14-206-27**	20" × 300'	1
62070-00	**14-206-29**	20" × 100'	4
Rolls			
62060-00	**14-206-30**	20" × 300'	2
62065-00	**14-206-28**	20" ×150'	2

Nalgene Super Versi-Dry Surface Protectors — absorbs 1050mL/m^2

Mfr. No.	Cat. No.	Description	L × W	No. Per Case
Mats				
74018-00	**14-206-38**	Small Bench Mat	18 × 20"	350
74040-00	**14-206-41**	Large Bench Mat	18 × 40"	175
74043-00	**14-206-58**	Table Mat	20 × 43"	150
74218-00	**14-206-59**	Fume Hood Mat	18 × 20"	100
74240-00	**14-206-60**	Floor Mat	18 × 40"	50
Rolls				
74000-00	**14-206-37**	Bench Roll	20" × 250'	1
74050-00	**14-206-39**	Bench Roll	20" × 100'	4
74200-00	**14-206-61**	Floor Roll	40" × 200'	1

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Chromatography Columns & Consumables

SOLA cartridges and plates

Thermo Scientific™ SOLA™ products revolutionize Solid Phase Extraction (SPE). This first fritless SPE product range provides greater reproducibility with cleaner, more consistent extracts. SOLA products provide unparalleled performance characteristics compared to conventional SPE, phospholipid removal and protein precipitation products.

This includes:

- Higher levels of reproducibility
- Higher levels of extract cleanliness
- Reduced solvent requirements
- Increased sensitivity

Mfr. No.	Cat. No.	Description	Pack size
60109-001	**03-150-391**	SOLA HRP 10mg/1mL cartridges	100
60109-002	**03-150-392**	SOLA SCX 10mg/1mL cartridges	100
60109-003	**03-150-393**	SOLA SAX 10mg/1mL cartridges	100
60109-004	**03-150-400**	SOLA WCX 10mg/1mL cartridges	100
60109-005	**03-150-401**	SOLA WAX 10mg/1mL cartridges	100
60309-001	**03-150-394**	SOLA HRP 10mg/2mL 96 well plate	1
60309-002	**03-150-395**	SOLA SCX 10mg/2mL 96 well plate	1
60309-003	**03-150-396**	SOLA SAX 10mg/2mL 96 well plate	1
60309-004	**03-150-402**	SOLA WCX 10mg/2mL 96 well plate	1
60309-005	**03-150-403**	SOLA WAX 10mg/2mL 96 well plate	1

SureStop 9mm vials

Thermo Scientific™ SureStop™ 9 mm vials, are designed as part of the Advance Vial Closure System (AVCS), and remove any subjectivity around achieving the optimal seal compression when closing a vial. As an integral component of AVCS technology, SureStop vials offer the sealing and performance characteristics of a crimp top vial and the versatility and convenience of a threaded vial. This is achieved by incorporating a definite stop point into the design of the vial finish, preventing over tightening of the closure. SureStop vials remove all doubt about the degree of tightening necessary for optimal sealing.

Mfr. No.	Cat. No.	Description
C5000-1	**03-376-600**	SureStop 9 mm 2mL Clear Glass
C5000-1W	**03-376-601**	SureStop 9 mm 2mL Clear Glass, with ID Patch
C5000-2W	**03-376-602**	SureStop 9 mm 2mL Amber Glass, with ID Patch
C5000-580	**03-376-603**	Convenience Kit, SureStop 9 mm 2mL Clear Glass, Ivory PTFE/Red Rubber Septum
C5000-580W	**03-376-604**	Convenience Kit, SureStop 9 mm 2mL Clear Glass, with ID Patch, Ivory PTFE/Red Rubber Septum
C5000-592	**03-376-605**	Convenience Kit, SureStop 9 mm 2mL Clear Glass, Red PTFE/White Silicone Septum
C5000-592W	**03-376-606**	Convenience Kit, SureStop 9 mm 2mL Clear Glass, with ID Patch, Red PTFE/White Silicone Septum
C5000-586W	**03-376-607**	Convenience Kit, SureStop 9 mm 2mL Clear Glass, with ID Patch, Red PTFE/White Silicone/Red PTFE Septum
C5000-595W	**03-376-608**	Convenience Kit, SureStop 9 mm 2mL Clear Glass, with ID Patch, Blue PTFE/White Silicone Septum, Preslit

Accucore HPLC Columns

Thermo Scientific™ Accucore™ — Ultimate Core Performance — Speed and Selectivity Combined

- Solid core particles for fast separations with superb resolution
- Wide range of phases to meet all your separation needs
- Exceptionally rugged and easy-to-use columns

Mfr. No.	Cat. No.	Description
17126-052130	**17-126-052130**	Accucore C18 HPLC Column, 2.6µm particle size, 50 × 2.1mm
17126-053030	**17-126-053030**	Accucore C18 HPLC Column, 2.6µm particle size, 50 × 3.0mm
17126-102130	**17-126-102130**	Accucore C18 HPLC Column, 2.6µm particle size, 100 × 2.1mm
17126-103030	**17-126-103030**	Accucore C18 HPLC Column, 2.6µm particle size,100 × 3.0mm
17126-154630	**17-126-154630**	Accucore C18 HPLC Column, 2.6µm particle size, 150 × 4.6mm
17326-102130	**17-326-102130**	Accucore aQ HPLC Column, 2.6µm particle size, 100 × 2.1mm
17426-052130	**17-426-052130**	Accucore PFP HPLC Column, 2.6µm particle size, 50 × 2.1mm
17526-052130	**17-526-052130**	Accucore HILIC HPLC Column, 2.6µm particle size, 50 × 2.1mm

TraceGOLD GC Columns

Thermo Scientific™ TraceGOLD™ — Redefine your expectations for GC-MS

- **Ultra low bleed** – Leading to greater sensitivity, essential for GC-MS applications, while providing extended column lifetime
- **High levels of reproducibility** — Both run-to-run and column-to-column reproducibility. Expect every column to provide the same high levels of performance as the previous one
- **Superior inertness** — Offering highly inert columns ensuring excellent peak shape and sensitivity, especially for highly active or difficult compounds

Mfr. No.	Cat. No.	Description
26098-1420	**26-098-1420**	TraceGOLD TG-5MS 30m × 0.25mm × 0.25µm
26098-1540	**26-098-1540**	TraceGOLD TG-5MS 60m × 0.25mm × 0.25µm
26088-1420	**26-088-1420**	TraceGOLD TG-WaxMS 30m × 0.25mm × 0.25µm
26088-1540	**26-088-1540**	TraceGOLD TG-WaxMS 60m × 0.25mm × 0.25µm
26099-1420	**26-099-1420**	TraceGOLD TG-1MS 30m × 0.25mm × 0.25µm
26085-3390	**26-085-3390**	TraceGOLD TG-624 30m × 0.32mm × 1.8µm
26096-1420	**26-096-1420**	TraceGOLD TG-5SilMS 30m × 0.25mm × 0.25µm
26096-1540	**26-096-1540**	TraceGOLD TG-5SilMS 60m × 0.25mm × 0.25µm

Fisher Scientific™ Rockers, Rotators and Shakers

Fisher Scientific Rockers, Rotators and Shakers

A comprehensive range of compact, efficient and sturdy rocking, rotating and shaking equipment for a variety of mixing applications including life science, cell culture, chemistry and other analytical or research laboratories.

- Platform rockers
- 3D platform rotators
- 3D multi-function rotators
- 3D multi-platform shakers
- Orbital microplate shakers

Fisher Scientific Digital Platform Rockers

Compact, highly functional fixed-angle rockers provide smooth rocking action for gentle sample agitation

- Ideal for tubes, culture flasks, dishes and boxes
- Simple graduated speed setting from 7.5 to 30rpm
- Continuous or timed operation with automatic switch-off, ensures accurate countdown for repeatability of time sensitive incubations
- Large, easy-to-read LED display
- Fits neatly into the smallest workspace
- Smooth, non-slip mat prevents vessels from slipping
- Operating temperature range of 4 to 40°C allows for use in cold rooms or incubators
- Optional dimpled mat for tubes, Cat. No. **13687706**

Fixed-Tilt Platform Rockers	Cat. No. 13687704
Speed (rpm)	7.5 to 30
Tilt angle (°)	7
Timer, with automatic switch-off	1 min to 24 hours
Platform dimensions (working area) (in)	8.19 × 8.19
Maximum load (lb)	1.1
Display	4 digit LED
Input voltage (V dc)	12
Input current (A)	0.5

Fisher Scientific 3D Platform Rotators

Variable speed, fixed-angle 3D rotators provide smooth orbital motion for mixing in culture flasks, dishes, boxes and tubes.

- Simple speed adjustment from 5 to 60rpm
- Gentle movement ideal for staining gels without destroying the edges or keeping fragile tissue intact during incubation
- Large platform accommodates most commonly used vessels with non-slip mat that prevents slipping
- Low voltage power supply provides safe cold room operation and low energy consumption
- Operating temperature range of 4 to 40°C allows for use in cold rooms or incubators
- Optional dimpled mat for tubes, Cat. No. **13687706**

Fixed-Tilt Platform Rotators	Cat. No. 13687705
Speed (rpm)	5 to 60
Tilt angle (°)	7
Platform dimensions (working area) (in)	8.19 × 8.19
Maximum load (lb)	1.1
Input voltage (V dc)	12
Input current (A)	0.5

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ Rockers, Rotators and Shakers

Fisher Scientific Digital Multi-Function 3D Rotators

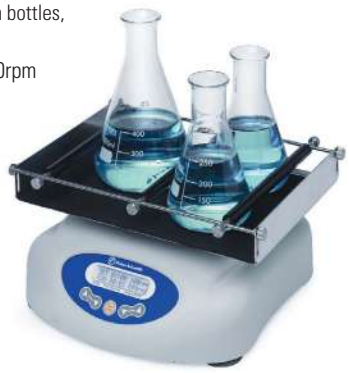
Variable speed, fixed angle, multi-function 3D rotatorsfully optimize the mixing of different sized particles.

- 3D rotation, reciprocation and vibration functions allow for continuous operation, timed operation or different combinations to ensure optimal mixing conditions for any application
- Rotation speed: 5 to 30rpm for long wave motion
- Reciprocal rotation: 1 to 360° turning angle for long and medium way motion
- Vibration: 1 to 6° turning angle, programmable in bursts of 1 to 5 seconds, for short wave motion
- Fits neatly into small workspaces
- Operating temperature range of 4 to 40°C allows for use in cold rooms or incubators
- Optional dimpled mat for tubes, Cat. No. **13687706**

Multi-Function 3D Rotators	Cat. No. 13687707
Speed (rpm)	5 to 30
Turning angle (reciprocal mode) (°)	1 to 360
Turning angle (vibration mode) (°)	1 to 5
Tilt angle (°)	7
Orbit diameter (in)	0.9
Timer (orbital/360° vertical or reciprocal mode) (sec)	1 to 250
Timer (vibration mode) (sec)	1 to 5
Number of cycles	1 to 125
Platform dimensions (working area) (in)	8.19 × 8.19
Maximum load (lbs)	2.2
Display	2 × 16 character LCD
Input voltage (V dc)	12
Input current (A)	0.5

Fisher Scientific Digital Multi-Platform Shakers

Easy to use, microprocessor controlled shaking platform provides a smooth, quiet horizontal orbital motion for mixing in bottles, flasks and beakers.



- Variable shaking speed: 50 to 450rpm
- Holds up to 8.8lbs
- Automatic load balancing system
- Continuous or timed operation with automatic switch-off
- Maximum flexibility with an option of four interchangeable platforms
- Simple set up and easy to operate
- Low voltage power supply provides for safe cold room operation and low energy consumption
- Operating temperature range of 4 to 40°C allows for use in cold rooms or incubators

MUST PURCHASE A TOP WITH THIS UNIT

Top Options for Multi-Platform Shakers

- Flat platform with non-slip rubber mat, Cat. No. **13687701**
- Platform with clamps for 6 × 250 flasks/150ml beakers. Cat. No. **13687702**
- Platform with clamps for 12 × 100ml flasks/150ml, Cat No. **13687703**
- Universal platform with adjustable bars (shown in image above) Cat. No. **13687710**

Multi-Platform Shakers (Platform not included. Order separately)	Cat. No. 13687700
Speed (rpm)	50 to 450
Orbit (in)	.4
Maximum load (lb)	8.8
Timer, with automatic switch-off	1 min to 96 hours
Display	2-line 16 character LCD
Imput voltage (V dc)	12
Imput current (A)	1
Ambient temperature range (°C)	4 to 40

Fisher Scientific Digital Microplate Shakers

Compact, variable speed horizontal shaker for reliable and regulated shaking of two or four microplates.

Microplate Shakers	Cat. No. 13687708
Speed (rpm)	150 to 1000
Orbit (in)	0.1
Capacity	2 microplates
Timer, with automatic switch-off	1 min to 23 h 59 min
Display	4 digit LED
Imput voltage (V dc)	12
Imput current (A)	0.5
Ambient temperature range (°C)	4 to 40

- Variable shaking speed: 150 to 1000rpm
- Quick and easy fitting for any standard-depth multiwall plates
- Continuous or timed operation, with automatic switch off
- Operating temperature 4 to 40°C allows for use in cold rooms or incubators
- Holds two plates standard, optional 4 plate top accessory for four microplates
- Easy-to-use electronic timer ensures accurate countdown and repeatability of time sensitive incubations

Quality, reliability and value.

Fisherbrand®

Fisherbrand Sterile Disposable Flasks

Bottom styles and closure options available for both Mammalian and bacterial culture

- Ideal for shaker and suspension cell culture, media preparation or storage
- Molded in graduations make them easy to read
- Disposable flasks reduce the chance of cross contamination

Volume, mL	Description	Cat. No.	Case of
125	Sterile Disposable Flask, Vented, PC	**PBV125**	24
250	Sterile Disposable Flask, Vented, PC	**PBV250**	12
500	Sterile Disposable Flask, Vented, PC	**PBV500**	12
125	Sterile Disposable Flask, PC	**PBNV125**	24
250	Sterile Disposable Flask, PC	**PBNV250**	12
500	Sterile Disposable Flask, PC	**PBNV500**	12
125	Sterile Disposable Flask, Vented, Baffled, PC	**BBV125**	24
250	Sterile Disposable Flask, Vented, Baffled, PC	**BBV250**	12
500	Sterile Disposable Flask, Vented, Baffled, PC	**BBV500**	12

Fisherbrand Cryotube Vials

Choice of externally or internally threaded vials

- Clear, with white patch and graduations for handwritten sample ID and volume check at a glance
- Sterile, noncytotoxic and nonpyrogenic to ensure sample integrity
- Self standing and anti-rotation features for ease of use and decapping

Volume, mL	Description	Cat. No.	Pack of/ Case of
1.2	Cryovial, Externally threaded	**10-500-25**	10/1000
2.0	Cryovial, Externally threaded	**10-500-26**	10/1000
5.0	Cryovial, Externally threaded	**10-500-27**	10/1000
1.2	Cryovial, Internally threaded	**12-567-500**	10/1000
2.0	Cryovial, Internally threaded	**12-567-501**	10/1000
5.0	Cryovial, Internally threaded	**12-567-502**	10/1000

Fisherbrand Media Bottles

Ideal for media and storage

- An inexpensive and shatterproof alternative to glass media bottles
- Certified sterile at SAL 10^{-6}, USP Class VI for repeatable results
- Nonpyrogenic and noncytotoxic to protect cells
- Molded-in graduations won't rub off
- Made from clear, light-weight, polyethylene terephthalate copolyester (PETG) providing impact resistance and excellent gas-barrier properties
- Closure is is high density polyethylene (HDPE)
- Bottles packed in a shrink-wrapped tray to stay clean
- Heat-shrink band around cap and bottle neck provides visual assurance of sterility for individual bottles until the band is removed

Volume, mL	Description	Cat. No.	Case of
125	Media Bottle, PETG	**FBMB125**	24
250	Media Bottle, PETG	**FBMB250**	24
500	Media Bottle, PETG	**FBMB500**	12
1000	Media Bottle, PETG	**FBMB1000**	12

Fisherbrand Polypropylene (PP) microplates are ideal for storage because of the low-binding characteristics of polypropylene. Proteins and DNA will not adhere to PP, allowing for complete sample recovery.

Cat. No.	Description	Case Qty
12565502	Fisherbrand 96 Well Plate Round Bottom, Natural, Polypropylene, Non-Sterile	80
12566610	Fisherbrand 96 Well Round Bottom Plate, Natural, Polypropylene, Sterile	120
12565503	Fisherbrand 96 Well Plate Round Bottom, Red, Polypropylene, Non-Sterile	80
12565504	Fisherbrand 96 Well Plate Round Bottom, Yellow, Polypropylene, Non-Sterile	80
12565505	Fisherbrand 96 Well Plate Round Bottom, Blue, Polypropylene, Non-Sterile	80
12566120	Fisherbrand 96 DeepWell 1mL Plate Round Bottom, Natural, Polypropylene, Non-Sterile	50
12566611	Fisherbrand 96 DeepWell 1mL Plate Round Bottom, Natural, Polypropylene, Sterile	50
12566612	Fisherbrand 96 Deep Well 2mL Plate Round Bottom, Natural, Polypropylene, Sterile	60
12566613	Fisherbrand 96 Deep Well 2mL Plate Round Bottom, Natural, Polypropylene, Non-Sterile	60
12566614	Fisherbrand 384 DeepWell 252ml, Natural, Polypropylene, Non-Sterile	60
12566615	Fisherbrand 384 Shallow Well Conical Bottom Plate, Natural, Polypropylene, Non-Sterile	100
12566616	Fisherbrand 384 Shallow Well Conical Bottom Plate, Natural, Polypropylene, Sterile	100
12566617	Fisherbrand 384 Shallow Well Conical Bottom Plate, Black, Polypropylene, Non-Sterile	100
12566618	Fisherbrand 384 Shallow Well Conical Bottom Plate, White, Polypropylene, Non-Sterile	100
12565507	Fisherbrand 384 Well Plate Round Bottom, Natural, Polypropylene, Non Sterile	120
12565508	Fisherbrand 384 Well Plate Round Bottom, Red, Polypropylene Non-Sterile	120
12565509	Fisherbrand 384 Well Plate Round Bottom, Yellow, Polypropylene Non-Sterile	120
12565510	Fisherbrand 384 Well Plate Round Bottom, Blue, Polypropylene Non-Sterile	120

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

HyClone Cell Culture

HyClone™ HyCryo™ and HyCryo-STEM™ Cryopreservation Media

- Innovation in cryopreservation
- Advancing post-thaw cell recovery and growth

With Hyclone HyCryo and HyCryo-STEM cryopreservation media, you can store your samples with even more confidence, knowing that our media design supports the post-thaw recovery, viability and growth of your precious cells.

HyCryo Media
Serum-free, animal origin-free cryopreservation media for general use

- Designed for cryogenic preservation of your standard cell lines
- Increases yield and recovery of viable cells after cryopreservation versus other media alternatives
- Provides peace of mind knowing that your cells are safely preserved for future research, with the optimal recovery you expect

HyCryo-STEM Media
Serum-free cryopreservation media for stem cells

- Provides impressive post-thaw cell recovery and growth of pluripotent stem cells and neural progenitor cells
- Maintains differentiation potential
- Minimizes spontaneous differentiation of stem cells

HyClone HyCryo and HyCryo-STEM Cryopreservation Media

Cat. No.	Product Description	Size
SR3000102	HyCryo Cryopreservation media for general use	100mL
SR30004.KT	HyCryo-STEM Cryopreservation media for stem cells	100mL

HyClone™ HyCell™-STEM and HyCell-STEM-FF Media

More stem cells, fewer passages – reaching your discoveries faster

- Quicken the pace of your stem cell discoveries

Whether you are focused on cell signaling and development, drug discovery or cell replacement therapies, generating large numbers of human embryonic stem cells (hESCs) and induced pluripotent stem cells (hiPSCs) is vital to support of your research. With HyClone HyCell-STEM and HyCell-STEM-FF complete media, you can expand the growth of ES and iPS cells up to two orders of magnitude over standard feeder culture conditions, all while maintaining pluripotency. With the ability to increase pluripotent cell numbers in fewer passages, you can ultimately quicken the pace of your stem cell discoveries.

HyCell- STEM, for use with feeder layers, and HyCell-STEM-FF for use with feeder-free systems

- Promotes increased stem cell expansion over multiple passages of hESCs and hiPSCs
- Maintains stem cell morphology and pluripotency potential
- Confers growth advantages on hESCs and hIPSs seeded from frozen stocks

Cat. No.	Product Description	Size
SR30003.KT	HyClone HyCell-STEM media kit	600mL kit
SR30004.KT	HyClone HyCell-STEM-FF media kit	600mL kit
SR30003.01	HyClone HyCell-STEM 6x supplement	100mL
SR30004.01	HyClone HyCell-STEM-FF 6x supplement	100mL
SH3002301	HyClone DMEM/F12 with L-Glutamine and HEPES	500mL

Thermo Scientific™ MaxQ Orbital Shakers

Shake Up the World of Science

You have important discoveries to make. We have your shaker. Designs large or small, open air, incubated, or refrigerated, reciprocating or orbital, benchtop or floor models. Shakers to fit your lab, your samples, your ideas. Platforms and accessories for almost any application and vessel type give you maximum flexibility. Backlit, intuitive displays make it easy to see all parameters at once. If you want to shake things up but stay in control, choose Thermo Scientific MaxQ Shakers.

Selecting your shaker is as easy as:

1. Selecting a shaker
2. Selecting a platform
3. Selecting your clamps

Description	Platform Size Inches (cm)	Maximum Capacity Largest Flask on a Platform	Type	Cat. No.
MaxQ 2000 Open Air Benchtop Shaker	13 × 11 (33 × 28) 18 × 18 (45.7 × 45.7) 24 × 18 (60.9 × 45.7)[1]	1 × 6L 2 × 6L 3 × 6L	Analog	11-675-927
			Digital	11-675-200
MaxQ 2506 Open Air Reciprocating Shaker	13 × 11 (33 × 28) 18 × 18 (45.7 × 45.7) 24 × 18 (60.9 × 45.7)	1 × 6L 2 × 6L 3 × 6L	Analog	11-675-150
MaxQ 2508 Dual Action (Orbital and Reciprocating) Shaker			Analog	11-675-152
MaxQ 3000 Open Air Benchtop Shaker	30 × 18 (76 × 45.7) 36 × 24 (91 × 60.9)	3 × 6L 6 × 6L	Analog	11-675-929
			Digital	11-675-201
MaxQ 4450 Incubated Benchtop Shaker	13 × 11 (33 × 28)	4 × 1L	Analog	11-675-43
			Digital	11-675-202
MaxQ 4450 Refrigerated Benchtop Shaker (Includes factory installed cooling coil. External chiller must be ordered separately.)	13 × 11 (33 × 28)	4 × 1L	Analog	11-675-470
			Digital	11-675-471
MaxQ 4000 Incubated Benchtop Shaker	18 × 18 (45.7 × 45.7)	6 × 2L	Analog	11-675-931
			Digital	11-675-204
MaxQ 4000 High Temperature Benchtop Shaker	18 × 18 (45.7 × 45.7)	6 × 2L	Analog	11-675-933
			Digital	11-675-205
MaxQ 4000 Refrigerated Benchtop Shaker	18 × 18 (45.7 × 45.7)	6 × 2L	Analog	11-675-935
			Digital	11-675-206
MaxQ 5000 Incubated Floormodel Shaker	30 × 18 (76 × 45.7)	4 × 6L	Analog	11-675-937
			Digital	11-675-207
MaxQ 5000 Refrigerated Floormodel Shaker	30 × 18 (76 × 45.7)	4 × 6L	Analog	11-675-939
			Digital	11-675-208
MaxQ 6000 Incubated Stackable Shaker	18 × 18 (45.7 × 45.7)	2 × 6L	Digital	11-675-209
MaxQ 6000 Refrigerated Stackable Shaker	18 × 18 (45.7 × 45.7)	2 × 6L	Digital	11-675-210
MaxQ 8000 Incubated Stackable Shaker	29.5 × 18 (74.9 × 45.7)	12 × 2L	Digital	11-676-061
MaxQ 8000 Refrigerated Stackable Shaker	29.5 × 18 (74.9 × 45.7)	12 × 2L	Digital	11-676-062
MaxQ7000 Water Bath Shaker	13 × 11 (33 × 28)	1 × 6L	Analog	11-675-941
			Digital	11-675-211

[1]*Universal platform only*

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientfic™ Barnstead GenPure xCAD Plus Water Purification Systems

Thermo Scientfic™ Barnstead™ GenPure™ xCAD Plus water purification systems offer innovative features that allow you to focus on your science.

- Free-up space with flexible mounting options. Place unit on bench, under counter or on the wall, and choose bench or wall mount for remote dispenser(s).
- Simultaneously dispense water from up to three work stations with additional remote dispensers.
- Set your desired volume for hands-free, automatic dispensing.
- Easily replace consumables with quick connect cartridges.
- Protect your valuable experiments and consumables with integrated feed water monitoring.

All packages include: Barnstead GenPure xCAD Plus water system, one xCAD Plus remote dispenser, wall mounting bracket, pressure regulator valve, UV lamp, ultrapure polishing cartridge, and 0.2 micron final filter. Optional ultrafilter and/or TOC monitor available on applicable units only.

Analytical models are ideal for applications such as inorganic and organic trace analysis, HPLC, ICP-MS, IC, and TOC Analysis.

Life science models are ideal for applications that utilize DNA or RNA, such as PCR or cell and tissue culture applications

TOC models provide visual real-time read-out of TOC levels.

Thermo Scientfic Barnstead GenPure xCAD Plus water purification systems with start-up consumables deliver ultrapure 18.2 megohm water with consistent quality, outstanding flexibility and great savings.

Thermo Scientific Barnstead Water System	Application	Cat. No.
GenPure xCAD Plus UV Water System	Analytical	**10-451-201**
GenPure xCAD Plus UV–TOC Water System	Analytical	**10-451-204**
GenPure xCAD Plus UV/UF Water System	Life Science	**10-451-203**
GenPure xCAD Plus UV/UF–TOC Water System	Life Science	**10-451-205**
With Wall-mount xCAD Remote Dispenser		
GenPure xCAD Plus UV Water System	Analytical	**10-451-211**
GenPure xCAD Plus UV–TOC Water System	Analytical	**10-451-209**
GenPure xCAD Plus UV/UF Water System	Life Science	**10-451-208**
GenPure xCAD Plus UV/UF–TOC Water System	Life Science	**10-451-210**

Fisher Scientific™ Vortex Mixers

Durable rugged vortexers offer exceptional versatility and value. Available in fixed and variable speed models as well as an advanced pulsing model.

Features

- Wide range of accessories allow for mixing from microtubes to flasks
- Continuous or touch mode operation (Fixed Speed model has high speed touch mode only)
- Digital models feature timer with countdown or elapsed time function
- Pulsing model with unique pulsing action reduces heat generation while providing more efficient mixing

Description	Speed Range (rpm)	Cat. No.
Fixed Speed Vortex Mixer	3200 Fixed	**02-215-360**
Analog Vortex Mixer	300-3200	**02-215-365**
Digital Vortex Mixer	500-3000	**02-215-370**
Pulsing Vortex Mixer	500-3000	**02-215-375**

Includes

All models include a cup head and 3" rubber head with cover. Pulsing model also includes a stainless steel holder for (12) 1.5 to 2.0mL microtubes with a built-in cup head.

Fisher Scientific Microplate Vortex Mixers

Designed for shaking microplates or tubes for strong, consistent, continuous duty mixing action.

- Analog and digital models
- Optimal 3.5mm orbit
- ON mode for continuous operation, Touch mode for mixing tubes
- Speed range 300-2500rpm in ON mode, 300-3500rpm in Touch mode
- Digital model features timer with countdown or elapsed time function

Description	Cat. No.
Standard Microplate Mixer	**02-216-100**
Advanced Microplate Mixer	**02-216-101**

Includes

All models include a single microplate holder and a cup head. Optional 2 plate holder available.

Fisher Scientific Heavy-Duty Vortex Mixers

Strong consistent mixing action designed for continuous duty. Heavy-duty design and efficient motor allow mixer to handle all accessories over the entire speed range.

Description	Cat. No.
Standard Heavy-Duty Vortex Mixer	**02-216-108**
Advanced Heavy-Duty Vortex Mixer	**02-216-109**

- Analog and digital models
- ON mode for continuous operation, Touch mode for mixing tubes
- Speed range 300-2500rpm in ON mode, 300-3500rpm in Touch mode
- Digital model features timer with countdown or elapsed time function

Includes

All models include a universal holder, foam insert for (38) 1.5 to 2.0mL microtubes, universal cover, and cup head. Optional accessories available for microplates, tubes and Erlenmeyer flasks.

UVP™ Gel Documentation

UVP offers a wide range of BioImaging Systems including the BioDoc-It System for basic gel documentation, ChemiDoc-It^{TS2} with large integrated touch screen and the BioSpectrum system for advanced image capture and analysis.

BioSpectrum Imaging System

- Darkroom features epi UV/white/blue light, three emission filters, white light transillumination, high sensitivity cooled CCD camera (8.1 mpx) for capturing **chemiluminescent blots, fluorescent and colorimetric gel images**. UV transilluminator fits on the roll-out tray. Capture and analysis software is loaded on the touch screen computer specially configured **free** with this system. Dimensions: 17.5W × 17.5D × 32H in.

BioSpectrum 810
UVPCPQ-8731

ChemiDoc-It^{TS2} Imaging Systems

- Large integrated touch screen (15.6 inches) with simplified button interface and high resolution cooled CCD camera (8.1 mpx) for capturing **chemiluminescent blots, fluorescent and colorimetric gels**. Darkroom includes epi white light, EtBr filter and UV transilluminator. White and blue light transillumination plates included **free** for viewing additional stained gels. Analysis software is included for loading on a separate computer. Dimensions: 17.5W × 14.5D × 33.5H in.

ChemiDoc-It^{TS2} 810
UVPCPQ-8733

BioDoc-It Imaging Systems

- System enables basic **gel documentation** in a compact, all in one design. System features touch screen (8 in.) interface, CCD camera (0.3 mpx) for capturing gel images, EtBr filter and 302nm UV transilluminator. Dimensions: 14.2W × 13.3D × 30.7H in.

BioDoc-It 210
UVP97-0167-01

Other models available, see www.Fishersci.com

All UVP Bioimaging Systems listed above allow users to easily save images to the system, thumb drive or connect to a network for transfer of images.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Family of Ergonomic Pipettes

Ovation BioNatural Pipettes

Amazingly simple. The most comfortable pipettes your hand will ever experience.

- Digital accuracy — A large LCD display and motor-driven volume adjustments ensure the exact settings your work requires.
- Amazing comfort — Ovation™ fits your hand like a glove and keeps your arm and wrist in a natural, stress-free posture close to the work surface.
- Flawless tipping and detipping — A gentle push is all that's needed to acquire tips, even on multichannel models, and an audible "click" confirms they're all securely seated.
- It just works — Beneath Ovation's sculpted exterior, rugged components and an ultra-precise motor drive ensure reliable performance without compromise. These pipettes are designed to be robust, yet simple to understand — so you spend less time learning the features and more time putting them into use.
- Forces so low, they're almost unmeasurable – Ovation lessens ALL pipetting forces – holding the pipette, applying and discarding tips, aspirating and dispensing, and changing volumes or functions. Other "ergonomic" pipettes only reduce thumb forces.
- You can do great things — Electronic models have broad liquid handling functions to speed through your workload. Ovation maximizes efficiency for all tasks including multiple dispensing, pipetting, reverse pipetting, mixing, serial diluting and automatic sequential dispensing.
- More for your money — Ovation pipettes are packed with features that make pipetting easy and comfortable — yet they're competitively priced with other single channel and multichannel pipettes. So you can afford to equip your entire lab with Ovations and not break the budget.

Ovation Tips – a fitting companion

Genuine Ovation tips provide a perfect fit every time and are available in a variety of volume sizes and packaging configurations:

- Sterile
- Nonsterile
- RNase/DNase certified
- Pyrogen-free
- Low Retention
- Trace Metal certified
- Filtered
- Individually wrapped

Visit **www.fishersci.com** for more information.

Volume Range[s]	Color[s]	Cat. No.	Each
Ovation ESC electronic single channel pipettes			
0.5–20µL	Yellow	**22-146-100**	619.00
2–125µL	Green	**22-146-101**	619.00
5–250µL	Blue	**22-146-102**	619.00
25–1250µL	Purple	**22-146-103**	619.00
100–5000µL	Gray	**22-146-300**	632.50
0.2–10mL	Red	**22-146-319**	714.63
Ovation E8 electronic multichannel pipettes			
0.5–20µL	Yellow	**22-146-675**	1323.00
5–250µL	Blue	**22-146-677**	1353.00
25–1250µL	Purple	**22-146-678**	1365.00
2–125µL	Green	**22-146-676**	1323.00
Ovation E12 electronic multichannel pipettes			
0.5–20µL	Yellow	**22-147-100**	1557.44
2.0–125µL	Green	**22-147-101**	1589.00
5–250µL	Blue	**22-147-102**	1589.00
25–850µL	Gray	**22-147-103**	1591.00
Ovation QS adjustable quick-set pipettes			
0.2–2µL	Red	**22-146-600**	429.00
1–10µL	Orange	**22-146-601**	429.00
2–20µL	Yellow	**22-146-602**	404.00
10–100µL	Green	**22-146-603**	404.00
20–200µL	Blue	**22-146-604**	404.00
100–1000µL	Purple	**22-146-605**	404.00
Start-up Kit†	Assorted	**22-146-685**	1191.00

† Includes one each 2-200µL, 100-1000µL, stand and 3 racks of tips.

Air Monitors

EMD Millipore™ 25mm Aerosol Analysis Monitors

Preloaded filter monitors for monitoring airborne particles, trace metals and particulate fluoride

Come with plain white membranes of mixed cellulose esters, cellulose support pad and three-piece housing. Average Background Count (ABC) for particles is printed on each package.

MAWP 025 AC and A0

Type A

- For monitoring airborne particles, trace metals and particulate fluoride
- Polystyrene housing has a 16mm center ring to distribute sample flow
- Female Luer slip vacuum connection
- Height with top section removed is 1.25" (3.2cm); with top in place, 1.75" (4.4cm)

Type B

- For asbestos and trace metals, lead and copper
- Carbon-filled, conductive, polypropylene housing with 50mm extension cowl
- Barbed hose vacuum connection eliminates the need for a tubing adapter
- Height without top section, 3" (7.6cm); with top in place, 3.12" (7.9cm)
- Effective filtration area, 3.7cm^2
- Monitors come nonsterile; for vacuum only

ORDERING INFORMATION:
Type A is also available without membrane (M000 025 A0).

REQUIRES:
Type A requires tubing adapter with male Luer connection, XX62 000 05.

COMPLIANCE:
Type B meets NIOSH specifications for airborne asbestos fiber monitoring.

Housing	Pore Size	Membrane Surface	Cat. No.	Pack of 50
Type A	0.8µm	White, plain	**MAWP 025 A0**	202.46
Type B	0.8µm	White, plain	**MAWP 025 AC**	189.70

EMD Millipore™ Filter Forceps

Handle membrane filters without damage

- Made from highly polished stainless steel with beveled, unserrated tips
- Sterilize by autoclaving or flaming
- Pack of three; contains blue, pink and green

XX62 000 06P

Description	Cat. No.	Pack of 3
Filter Forceps	**XX62 000 06P**	48.30

EMD Millipore™ 37mm Aerosol Analysis Monitors

For particulate analysis of aerosols

MAWP 037 A0

- Available with matched-weight membranes
- Transparent, disposable filter holders come preassembled with MF-Millipore™ mixed cellulose ester filters
- Thin cellulose support ring seals the filter between monitor sections to distribute sample flow evenly over the filter surface
- Three-part SAN (styrene acrylonitrile) nonsterile plastic housing
- Center section holds filter in place when top section is removed for open aerosol sampling
- Female Luer slip inlet and outlet
- Housing measures 1.43 dia. × 1.12"H (3.7 × 2.9cm) with top section removed; 1.43"H (3.7cm) with top in place
- Average Background Count (ABC) value is marked on each preassembled monitor package
- Effective filtration area: 9.0cm^2
- For vacuum only, matched-weight monitors contain two filters matched in weight to within 0.1mg, eliminating test filter preweighing in gravimetric analysis

ORDERING INFORMATION:
Monitor case is also available separately for use with membrane of your choice; comes with or without support ring.

Pore Size	Membrane Surface	Cat. No.	Pack of 50
Aerosol Analysis Monitors			
0.45µm	White, plain	**MHWP 037 A0**	180.50
0.8µm	White, plain	**MAWP 037 A0**	128.69
Matched Weight Monitor			
0.8µm	White, plain	**MAWP 037 AM**	399.50

EMD Millipore™ M Air T™ Tester Kit

Fast and reliable results with maximum recovery

Easy-to-use, compact, lightweight sampler, programmable, extended-life battery, delay timer to minimize risk of secondary contamination.

- Micro-perforated sieve: 316 stainless steel
- Sampling head: anodized aluminum
- M Air T Tester body: epoxy-coated aluminum

ATAS 050 60 with ATSM TTD 60 (sold separately)

INCLUDES:
Tester, tester sieve with cover, tripod, battery charger and tools in a carrying case

WARRANTY: One year

CERTIFICATIONS: CE marked. Certificate of Calibration provided.

Description	Cat. No.	Each
Tester Kit	**ATAS 050 60**	6000.00

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ACCESSORIES

EMD Millipore™ M Air T™ Agar Cassettes

Ready-to-use cassettes, prefilled with medium, gamma-sterilized, double-sleeve packaged.

- Fast and reliable results with maximum recovery
- Large agar amount and unique micro-perforated sieve allow air sampling of up to 1 cubic meter
- Unit-to-unit consistency of agar surface shape
- Reproducible results

COMPLIANCE: USP

Description	Cat. No.	Pack of
Prefilled with TSA Media	**ATSMTTD60**	60/232.00
Empty Cassettes	**ATSMC0114**	114/235.00

EMD Millipore™ M Air T™ Tester Accessories and Replacement Parts

Description	Cat. No.	Each
Battery Charger	**ATAC05060**	235.00
Calibration Kit	**ATACAL001**	2540.00
Battery Pack	**ATASBAT01**	289.23

Whatman™ PM 2.5 Air Monitoring Filters

Low-chemical-background filters permit sensitive, interference-free determinations

- For U.S. EPA PM 2.5 ambient air monitoring
- With high-purity, thin PTFE membranes
- Chemical-resistant, sequentially numbered polypropylene support rings
- Low tare mass provides for accurate gravimetric determinations
- Thermally stable design
- Filter thickness: 40µm
- Pore size: 2µm
- Manufactured under cleanroom conditions without any glues or adhesives
- Individually numbered for easy sample tracking

05-717-5

ORDERING INFORMATION:
Each box of 50 filters is sequentially labeled for easy control.

Diameter	Mfr. No.	Cat. No.	Pack of 50
46.2mm	7592-104	**05-717-5**	411.50

Whatman™ EPM 2000 High-Volume Air Sampling Filters

Developed for high-volume air sampling in collection of atmospheric particulates and aerosols

09-874-69

- Selected by U.S. EPA as standard filter used in nationwide high-volume air sampler network
- Pure borosilicate glass — enable detailed chemical analysis of trace pollutants with minimal interference and background
- Heat treated to remove organic traces; ≥99.95% efficiency for 0.3µm-size particles
- Thickness: 0.45mm (18mil); weight: 85g/m^2
- Maximum temperature: 500°C (932°F)
- Easily handle typical commercial high volume sampling technique (2200m^3 over 24 hours; average flowrate, 1.7m^3/min.; through exposed filter area of approximately 400cm^3)

ORDERING INFORMATION:
Come in 47mm circles or individually numbered 8 × 10" (20.3 × 25cm) sheets.

Description	Mfr. No.	Cat. No.	Pack of 100
47mm circles	1882-047	**09-874-69**	57.60
8 × 10" sheets	1882-866	**09-874-67**	567.50

Whatman™ QM-A Quartz Air-Sampling Filters

Microfiber filters for air sampling in acidic gases, stacks, flues and aerosols at temperatures to 500°C (932°F)

09-873P

- High airflow, excellent retention — ideal for PM-10 high-volume air sampling method
- Ultra-high-purity quartz (SiO_2)
- Low in alkaline earth metals, heavy metals
- Virtually eliminate sulfate and nitrate artifacts
- Choose from discs or sequentially numbered sheets

Description	Mfr. No.	Cat. No.	Pack of
32mm circles	1851-032	**09-874-87**	100/136.20
37mm circles	1851-037	**09-874-88**	100/160.19
47mm circles	1851-047	**09-874-89**	100/177.40
55mm circles	1851-055	**09-874-90**	100/199.80
8 × 10" sheets	1851-865	**09-916-7**	25/391.50
8 × 10" sheets	1851-8866	**09-873P**	100/1534.00

Ampules

Fisherbrand® SafeSnap™ Disposable Ampule Openers

Ideal safety measure for ampule usage — especially in respiratory and blood-gas laboratories

Polyethylene ampule collars protect fingers while breaking open the scored neck of glass ampules.

- To use: Slip the collar onto the ampule until collar rests on the widest part
- Grip the collar with thumb and forefinger while holding the upright ampule at bottom
- Break the ampule with a quick snap
- Dispose of the collar and ampule top together

01-216 Series

For Ampule Size	Cat. No.	Pack of 1000
1 to 4mL	**01-216-1**	229.50
5 to 10mL	**01-216-2**	228.30

Wheaton™ Cryule™ Gold-Band™ Cryogenic Ampules

For preservation of biological materials with liquid nitrogen

- Low-extractable borosilicate glass
- Gold-Band feature indicates prescoring
- Tips of prescored ampules snap off easily without filing
- Designed for low-temperature storage and rapid thawing

ALERTS:
Cryogenic vials are intended for placement only in the vapor phase of liquid nitrogen, and should not be used for storage in the liquid phase of liquid nitrogen. Immersion of the vials in the liquid phase could result in penetration of the liquefied gas into the vial, resulting in rapid vaporization of the liquid upon removal and possible violent explosion or leakage from the vial/closure perimeter.

To prevent cryogenic vials from exploding, never overfill liquid nitrogen storage units. Always examine vials before use to ensure no visible defects around the closure rims. Always use full faceshields, heavy safety gloves and laboratory protective apparel when removing vials from cryogenic storage. Always permit vials to warm slowly in a biological safety cabinet. Never reuse cryogenic vials.

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of 144
Unscored				
1mL	10.5 × 61mm	651462	**06-400A**	83.10
1.5mL	11.5 × 61mm	651464	**02-911-620**	84.00
2mL	11.5 × 70mm	651466	**06-400D**	88.60
10mL	19.5 × 114mm	651470	**02-911-622**	190.30

Wheaton™ Prescored Gold-Band™ Amber Ampules

Protect light-sensitive samples

- Amber borosilicate glass
- Prescored to eliminate filing
- Gold-Band feature indicates prescoring
- Stems can be pull sealed or tip sealed

COMPLIANCE:
Meet USP Type 1 and ASTM™ Type I, Class B standards

01-215N

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of 144
1mL	10.5 × 67mm	176792	**01-215N**	58.40
2mL	12 × 75mm	176796	**01-215P**	58.30
5mL	16.5 × 84mm	176799	**01-215Q**	116.20

Wheaton™ Prescored Gold-Band™ Clear Ampules

Prescored to eliminate need for filing

- Low-extractable borosilicate glass
- Gold-Band feature indicates prescoring
- Stems can be pull sealed or tip sealed

COMPLIANCE:
Meet USP Type 1 and ASTM™ Type I, Class A standards

01-215A

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of 144
1mL	10.5 × 67mm	176772	**01-215A**	50.20
2mL	12 × 75mm	176776	**01-215B**	49.40
5mL	16.5 × 84mm	176779	**01-215C**	80.00
10mL	19 × 107mm	176780	**01-215D**	106.60
20mL	22.5 × 130mm	176782	**01-215L**	154.36

Bel-Art™ Scienceware™ Break-Safe™ Ampule Opener

Features a box-style design for one-handed opening of up to three ampules at a time

- Pressing down on the lid snaps ampule necks cleanly
- Sharp edges are safely contained within the device, away from fingers
- Includes four inserts to allow opening of 1mL, 2mL, 5mL and 10mL ampules
- Transparency allows unobstructed viewing of ampule contents at all times
- Copolyester plastic construction has broad chemical resistance

11-391-61

Dimensions	Mfr. No.	Cat. No.	Each
9.5L × 7.6W × 8.3cmH (3.75 × 3 × 3.25")	389520000	**11-391-61**	44.75

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Anemometers

Fisher Scientific™ Traceable™ Hot Wire Anemometer/Thermometers

Ideal for cleanrooms and environmental tests

- Miniature glass-bead thermistor provides greater precision at low air velocities
- Eliminates friction errors caused by rotating vanes in traditional anemometers
- Accuracy is ±1% full scale plus 1 digit
- Displays temperature in user-selectable °C or °F; temperature range from 0° to 50°C (32° to 122°F) with a resolution of 0.1°C or °F and accuracy of ±0.8°C (1.5°F)
- Serial RS-232 output allows the meter to be connected to any IBM™-compatible computer or datalogger
- Information can be imported to an existing database and, with the accessory Data Acquisition System, captured, displayed on monitor and stored†
- Memory function recalls the highest and lowest readings and HOLD button freezes display for later reading
- Measures air velocity in five ranges: 0.2 to 20mps with a resolution of 0.1mps
- 0.7 to 72kph with a resolution of 0.1kph
- 40 to 3940fpm with a resolution of 1fpm
- 0.5 to 44.7mph with a resolution of 0.1mph
- 0.4 to 38.8 knots with a resolution of 0.1 knots

06-662-73

ORDERING INFORMATION:
Unit measures 7L × 3W × 1.25"H (17.8 × 7.6 × 3.2cm); weighs 9.50 oz. (269g). Available accessories include DAS-4 Data Logger System (06-662-72) and DAS-3 Data Acquisition System (11-661-22).

INCLUDES:
Dual thermistors probe, 40" (101.6cm) cable and six AAA batteries

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST™ (National Institute of Standards and Technology).

L × W × H	Weight	Cat. No.	Each
7 × 3 × 1.25" (17.8 × 7.6 × 3.2cm)	9.5 oz. (269g)	**06-662-73**	515.10

†Unit is equipped with a sample program that allows you to store 100 readings; the complete DAS-3™ Data Acquisition System or DAS-4™ Data Logger System is required to transfer these readings to a computer file

ON THE WEB...

Looking for more Anemometers?

Visit www.fishersci.com and search for Anemometers

Fisher Scientific™ Traceable™ Anemometer/Thermometers

Designed for intuitive and easy operation

- Simple operation
- Tough ABS plastic housing; durable in severe lab conditions
- O-ring sealing
- Membrane keypad keeps out dust and dirt
- HOLD button freezes the reading on the display
- High contrast 0.375"-high LCD digits
- At the press of a button, unit recalls minimum/maximum readings
- Dimensions: 1.50 × 8.25 × 1.50" (38.1 × 209.5 × 38.1mm)
- Weight: 6 oz. (170.1g)

Fisher Scientific Traceable Anemometer/ Thermometers, 15-078-94 through 15-078-96

INCLUDES: Four AAA batteries

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA; indicates traceability to standards provided by NIST™.

Measures	Cat. No.	Each
Airflow and temperature only	**15-078-194**	121.40
Airflow, temperature, humidity, dew point	**15-078-195**	145.60
Airflow, temperature, humidity, dew point, barometric pressure	**15-078-196**	306.00

Fisher Scientific™ Traceable™ Micro-Anemometer/Thermometer

Measures air velocity in five user-selectable values: meters per second, feet per second, miles per hour, kilometers per hour and knots

15-078-197

Simple one-button operation eliminates the need to refer to directions.

- Ultra-compact micro design
- Displays maximum airflow and wind chill measured in °F and °C
- Measurements are lightning fast with reading updates twice per second
- Tough ABS plastic housing
- Water resistant and durable
- Electroluminescent backlight
- Easy-to-read, high contrast LCD digits measure 0.375" (9.52mm)
- Easy-to-use rugged design

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA; indicates traceability to standards provided by NIST™.

Specifications	
Airflow Range	0.0 to 30.0 m/s, 0.0 to 98.0 ft./sec., 0.0 to 67.0 mile/hr., 0.0 to 108.0km/hr. and 0.0 to 58.0 knots
Airflow Resolution	0.1m/s, 0.1km/hr., 1 ft./min., 0.1 mile/hr., 0.1 knots
Airflow Accuracy	±5% full scale
Temperature [Range]	-20.0° to +80.0°C (-4.0° to +176.0°F)
Temperature [Accuracy]	±1°C
Temperature [Resolution]	0.1°

Description	Cat. No.	Each
Micro-Anemometer/Thermometer	**15-078-197**	78.60
Micro-Anemometer/Thermometer (No Battery)	**02-261-957**	80.00

Animal Care

Cages

Tecniplast™ Activity Wheel Cage System for Rodents

Ideal for research involving circadian rhythms, ingestion, drug or pharmaceutical testing

Allows easy, convenient measurement of lab rodents' voluntary physical activity in response to chemical or environmental stimuli.

- Constructed with low-friction bushing for long life and quiet, smooth action
- All metal parts are stainless steel
- All non-electrical cage parts are autoclavable
- Compatible with cages of dimensions 19 × 10.5 × 8" (48 × 27 × 20cm) (01-288-1F and 01-286-13F for rats); not included

ORDERING INFORMATION:
Accessory cage support (01-286-12F) and magnetic switch counter with LCD counter (01-286-12E) sold separately.

INCLUDES:
Activity wheel, wheel hub and support, sheet lid that encloses wheel and covers cage for secure containment, activity wire lid with water bottle support and food hopper

Dia. × H	Mfr. No.	Cat. No.	Each
13.5 × 3.87" (34.5 × 9.7cm)	2154F0105	**01-286-12C**	776.14

01-286-12C wheel assembly with 01-288-1F cage and 01-286-12F cage support

ACCESSORIES

Tecniplast™ Metabolic Cage Support Racks

Stainless-steel racks hold up to 12 Tecniplast Metabolic Cages

- Accommodate cages for small rats and mice (01-287-6A, 01-287-6C and 01-288-2D)
- Mounted on swivel casters — one pair locks for safety

Vertical Style

- Hold three rows of four cages each
- Can be adjusted to hold eight metabolic cages for large rodents (01-287-6G)

Horizontal Style

- Hold two rows of six cages each, situated at a convenient working height

Style	L × W × H	Mfr. No.	Cat. No.	Each
Vertical	49.5 × 19.5 × 73.5" (126 × 50 × 187cm)	3M12D100	**01-287-6F**	4047.15

01-287-6F

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Tecniplast™ Metabolic Cage Systems for Rodents

Unique funnel and cone design completely separates urine and feces

Distinctive two-chamber design provides a safe, sanitary environment for animals and permits acquisition of untainted urine and feces for study. Upper and lower chambers constructed of smooth, transparent polycarbonate to prevent gnawing and noise.

Upper Chamber Features

- Large cover keeps animals securely in cage; allows easy access to interior
- Stainless-steel support grid separates chambers and allows waste products to pass through bars
- Handles on grid for easy cage transportation without stand
- Feeder chamber on outside of upper chamber is large enough for animals to access food, yet small enough to prevent sleeping or nesting
- Polycarbonate feed drawer underneath feeder chamber slides out for easy filling
- Rear chamber of feed drawer catches spilled slurry, liquid, or powder food — excess food will not contaminate excreta
- Calibrated polycarbonate water bottle with stainless-steel cap and sipper tube assembly, combined with water spillage collection tube, facilitates accurate collection of fluid intake data
- All parts are autoclavable

Lower Chamber Features

- Nonwetting polymethylpentene (PMP) funnel and separating cone allow waste products to collect in separate feces and urine collection tubes
- Fecal matter rolls down the sides of funnel to collect in feces collection tube
- Urine collection tube is graduated in cubic centimeters and can be cooled in an ice bath
- Tubes unlock from outside of cage with a single twist so as not to disturb animals
- All parts are autoclavable

REQUIRES:
System requires accessory stand to support cage (01-287-6E) and provide access to all cage components.

NOTES:
Feed drawer not designed for use with pellet food.

01-287-6 Series with 01-287-6E stand (order separately)

Accommodates	Domicile Portion I.D. × H	Overall L × W × H	Mfr. No.	Cat. No.	Each
Rats, guinea pigs and hamsters >300g	9.5 × 7" (24 × 18cm)	14 × 11 × 20.5" (36 × 28 × 52cm)	3701M081X	**01-287-6G**	1602.22
Rats, 150 to 300g	8 × 5.5" (20 × 14cm)	14 × 11 × 19" (36 × 28 × 48cm)	3700M071	**01-287-6A**	1229.00
Mice	8 × 5.5" (20 × 14cm)	14 × 11 × 19" (36 × 28 × 48cm)	3700M022	**01-287-6C**	1229.00
One mouse	6.75 × 5" (18 × 13cm)	12.62 × 9.87 × 14" (32 × 25 × 35.6cm)	3600M021	**01-814-25**	931.50

ACCESSORIES

Tecniplast™ Stand for Tecniplast Metabolic Cages

Stainless-steel cradle assembly with nylon supports

- Autoclavable

ORDERING INFORMATION:
Overall dimensions:
12.25L × 12.25W × 13.37"H
(31 × 31 × 34cm).

01-287-6E

Accommodates	Mfr. No.	Cat. No.	Each
One rodent metabolic cage	3M01D100	**01-287-6E**	275.00

Restraints

Plas-Labs™ Broome-Style Rodent Restrainers

Ideal for injections or blood sampling

- Offer easy access to rodent
- Prevent rodent from turning
- Provide safety to the animal handler
- Manufactured from clear materials to provide complete visibility of animal

Left to right: 01-288-32A, 01-288-32D, 01-288-32B

Animal Size Range	L × Dia.	Cat. No.	Each
15 to 30g	3.75 × 1" (9.5 × 2.5cm)	**01-288-32A**	103.90
30 to 125g	5.5 × 1.5" (14 × 3.8cm)	**01-288-32B**	152.10
125 to 250g	8 × 2" (20.3 × 5.1cm)	**01-288-32C**	166.70
250 to 500g	8.5 × 2.5" (21.6 × 6.4cm)	**01-288-32D**	176.70
550g+	9 × 3.5" (22.9 × 8.9cm)	**11-389-4**	308.00

Surgical Devices

BD™ Autoclip™ Wound Closing System

Ideal for use on lab animals or in veterinary surgery

Consists of 01-804 applier, 01-804-5 nonsterile wound clip and 01-804-15 remover. To use, insert clips into applier, locate edges of wound and use applier as you would a staple gun to rapidly close wound.

Clockwise from top left: 01-804-15, 01-804, 01-804-5

- Provides maximum holding force with minimal trauma
- May be used without assistance
- Easily remove clips with clip remover when wound is healed

Applier

- Stainless-steel applying forceps hold one rack of 20 clips
- Clips fed by rust-proof beryllium-copper springs
- Dimensions: 4.5L × 1.37W × 0.37"H (114 × 35 × 9.5mm)
- Net weight: 1.5 oz. (45g)

Wound Clips

- 9mm nonsterile Autoclip wound clips
- 20 stainless-steel double clips per rack
- 100 clips (5 racks) per box, 10 boxes per case

Remover

- Easily removes clips from healed wound
- Stainless steel
- Length: 4" (100mm)

Description	Mfr. No.	Cat. No.	Each	Case of 10 Pack
Applier	427630	**01-804**	587.00	----
Wound clip	427631	**01-804-5**	Pk. of 100/90.62	685.00
Remover	427637	**01-804-15**	241.00	----

Fisherbrand® Animal Ear-Tag Punch

For punching holes into thin part of animal's ear

For use with animal ear tags.

13-812-201, shown with tag, sold separately

Description	Cat. No.	Each	Pack of
Animal Ear-Tag Punch	**13-812-201**	20.35	12/201.00

Oster™ Animal Clippers

For preparing mice, rats, hamsters or other animals for surgery without irritating or frightening them

- Cutting blades snap on and off, permitting instant change with no tools required
- Universal motor uses high rpm and gear-down design to produce outstanding power for unit's size
- Automatic armature take-up ensures long life and quiet operation

INCLUDES:
Size 10 blade set for general clipping

COMPLIANCE:
Double insulated to meet OSHA specifications.

NOTES:
For surgical shaving, use 01-305-10B Size 40 Blade Set (below).

01-305-10

Description	Cat. No.	Each	Case of
Animal Clippers	**01-305-10**	390.08	5/1966.65

ACCESSORIES

Oster™ Animal Clipper Size 40 Blade Sets

01-305-10B

- For surgical shaving with 01-305-10 animal clippers
- Fine-grain, high-carbon steel
- Shaves hair as close as 0.01" (0.25mm)

Description	Cat. No.	Each	Case of
Animal Clipper Size 40 Blade Sets	**01-305-10B**	71.30	12/669.38

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Disposable Animal Feeding Needles

For critical applications requiring single-use feeding needles

- Nontoxic, nonpyrogenic
- Malleable stainless-steel tubing and silicone tip bend easily
- Plastic Luer hubs
- Sterile, packaged in Tyvek™ pouches
- Five per pouch, 20 pouches per box

01-208-87, 01-208-88, 01-208-89

Gauge/Length	Cat. No.	Pack of
20/38mm (1.5")	**01-208-87**	100/437.04
18/50mm (2")	**01-208-88**	100/428.57
15/76mm (3")	**01-208-89**	100/437.04

Cadence Science™ Reusable Animal Feeding Needles

Precision-assembled, stainless-steel feeding needles ideal for feeding and dosing

- For the intubation of laboratory animals
- Straight or curved tubing styles
- Many standard sizes available, from small to large
- Autoclavable

Reusable Animal Feeding Needles — Straight

Newborn Needles

- For newborn mice and rats
- For animals up to 0.7 oz. (20g)

Small Animal Needles

- For animals 0.7 oz. to 1 lb., 5 oz. (20 to 600g)

Tube Style	Gauge/Length	Ball Diameter	Mfr. No.	Cat. No.	Pack of
Newborn Needles					
Straight	24/25mm	1.25mm	7900	**01-290-1**	12/561.00
	22/25mm	1.25mm	7901	**01-290-2A**	12/472.91
	22/38mm	1.25mm	7920	**01-290-2B**	12/462.88
Small Animal Needles					
Straight	20/25mm	2.25mm	7921	**01-290-3A**	12/374.50
	20/38mm	2.25mm	7902	**01-290-3B**	12/371.00
	20/76mm	2.25mm	7903	**01-290-3C**	12/371.00
	18/25mm	2.25mm	7922	**14-818-107B**	12/381.00
	18/38mm	2.25mm	7904	**01-290-4B**	12/371.00
	18/50mm	2.25mm	7905	**01-290-4C**	12/371.00
	18/76mm	2.25mm	7906	**01-290-4D**	12/371.00
	16/50mm	3.00mm	7923	**01-290-6A**	12/374.50
	16/76mm	3.00mm	7908	**01-290-6B**	12/371.00
Curved	20/38mm	2.25mm	7910	**01-290-9A**	12/394.00
	20/76mm	2.25mm	7911	**01-290-9B**	12/394.00
	18/38mm	2.25mm	7912	**01-290-10A**	12/394.00
	18/50mm	2.25mm	7913	**01-290-10B**	12/394.00
	18/76mm	2.25mm	7914	**01-290-10C**	12/394.00
	16/50mm	3.00mm	7915	**01-290-11A**	12/403.58
	16/76mm	3.00mm	7916	**01-290-11B**	12/403.58
	16/102mm	3.00mm	7946	**01-290-11C**	12/403.58
	14/76mm	4.00mm	7917	**01-290-12**	12/606.91

Feeding

Bio-Serv™ Bio-Huts™ Enrichment Device for Mice, Certified

Two openings for increased visibility

14-726-501

- Provides sheltering and nesting opportunities
- Low profile fits into most shoebox cages
- Economical and disposable
- Separates easily to make two half huts
- Made of nonrecycled, 100% virgin wood pulp
- Contaminant screened
- Acrylamide-free
- L × W × H (whole huts): 5.25 × 3.25 × 2.5" (13.3 × 8.3 × 6.4cm)
- L × W × H (half huts): 2.63 × 3.25 × 2.5" (6.7 × 8.3 × 6.4cm)

Type	Mfr. No.	Cat. No.	Each
Nonsterile	K3352	**14-726-501**	245.00

Bio-Serv™ Nylabone Rodent Enrichment Device, Certified

Provides gnawing opportunity for rodents

14-726-558, 14-726-559

- Helps reduce malocclusions
- Helps prevent stereotypical behavior
- Excellent for rats on powdered chow or liquid diets
- Made of solid nylon
- Autoclavable
- Cagewasher safe
- Certified (Contaminant screened)

Flavor	Size	L × W	Mfr. No.	Cat. No.	Each	Pack of
Natural	Petite	3.75 × 1" (9.5 × 2.5cm)	K3200	**14-726-507**	70.60	----
Natural	Regular	4.5 × 1.25" (11.4 × 3.2cm)	K3201	**14-726-559**	----	50/108.00

Bio-Serv™ Transgenic Dough Diet, Sterile

Nutritionally-complete, soft diet with higher protein and fat levels to comply with NRC and Transgenic-users' recommendations

14-726-517

- Designed for rodents with chewing, dental or mobility impairments
- Cookie dough consistency replaces labor intensive, nutrient diluted mush diets
- Ideal for recovering rodents, weanlings or any time a soft diet is needed
- Rich bacon flavor stimulates appetite
- Place in feeder cup or on cage floor
- Sterilized by gamma irradiation
- Nutritionally assayed
- Ingredients: Sucrose, Whole Milk Powder, Casein, Soybean Oil, Cellulose, Corn Syrup, Vitamin Mix, Mineral Mix, Glycerin, Bacon Flavor, DL-Methionine, Choline Bitartrate, Phenylalanine, tBHQ

STORAGE:
Store refrigerated for up to six months; frozen for up to 12 months.

Quantity	Mfr. No.	Cat. No.	Each
1kg	S3472	**14-726-517**	34.05

Bio-Serv™ Mouse Igloo™ Rodent Enrichment Device, Certified

Provides shelter and a secluded place to build a nest

- Transparent material provides ease of visibility
- Great addition to breeding programs
- Fits most shoebox cages
- Stacks easily for convenient storage
- Made of high-temperature polycarbonate
- Autoclavable
- Cagewasher safe
- Certified (Contaminant screened)

14-726-502, 14-726-552

Color	Mfr. No.	Cat. No.	Each
Blue	K3570	**14-726-551**	3.38
Red	K3327	**14-726-552**	3.51

Bio-Serv™ Dustless Precision Pellets™ Grain-Based Rodent Diet

Precise size and weight pellets generally used in nutritional and behavioral studies

14-726-582

- Nutritionally complete grain-based formula
- Dustless and fracture free — superior performance in automatic feeders
- Every batch tested for hardness, weight and height
- Nutritionally assayed
- Ingredients: Ground Corn, Banana Flakes, Dehulled Soybean Meal, Corn Gluten Meal, Ground Wheat, Corn Gluten Feed, Fish Meal, Dehydrated Alfalfa Meal, Casein, Dried Whey, Sucrose, Fructose, Dextrose, Dried Beet Pulp, Soybean Oil, Porcine Animal Fat (preserved with BHA), Dried Brewers Yeast, Mineral Mix, Vitamin Mix, Magnesium Stearate, DL-Methionine, Choline Chloride, Sodium Propionate, Ascorbic Acid, Kaolin

STORAGE: Store for up to 12 months in a cool, dry place.

Size	Diameter	Quantity	Mfr. No.	Cat. No.	Each
45mg	0.140"	50,000/box	F0165	**14-726-582**	87.00

Bio-Serv™ Dustless Precision Pellets™ Purified Rodent Diet

Precise size and weight pellets generally used in nutritional and behavioral studies

14-726-589

- Nutritionally complete purified formula
- Dustless and fracture free — superior performance in automatic feeders
- Every batch tested for hardness, weight and height
- Nutritionally assayed
- Ingredients: Sucrose. Dextrose, Casein, Corn Oil, Mineral Mix, Cellulose, Corn Syrup, Calcium Silicate, Vitamin Mix, Magnesium Stearate, Choline Bitartrate, DL-Methionine, L-Cystine, Ascorbic Acid, Vitamin E Acetate, tBHQ, Chocolate Flavoring (F05301 and F0299 only)

STORAGE: Store for up to 12 months in a cool, dry place.

Size	Quantity	Diameter	Mfr. No.	Cat. No.	Each
No Added Flavor					
20mg	50,000/box	0.100"	F0071	**14-726-589**	88.30
45mg	50,000/box	0.140"	F0021	**14-726-750**	95.80

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Before You Buy **Cleanroom Apparel**

Kimberly-Clark PROFESSIONAL® | Exceptional Workplaces℠

BE ALERT to this Cleanroom Threat

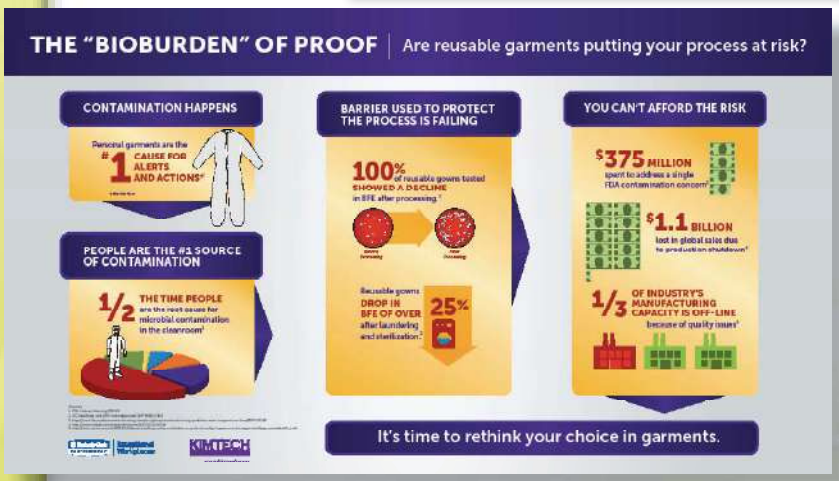
Did you know that reusable protective apparel may not be meeting your cleanroom standards after it has been laundered? Here's what a recent test found:

- 100% of the used sterile reusable garments tested showed a decline in BFE (Bacteria Filtration Efficiency) after washing
- Fabric degradation is visible at the submicron level, and is enough to allow bacteria to penetrate the material
- The more times the garment is processed, the bigger the decline in BFE
- The average BFE of reusables drops 25% after laundering
- KIMTECH PURE™ A5 Sterile single-use apparel provides the highest rating BFE at 96%

Find out more about the Kimberly-Clark Professional™ apparel solution that delivers reliable, predictable protective performance for your cleanroom.

We can help you with:

- **Risk mitigation**
- **Process improvement**
- **Increased donning efficiencies**
- **Customized implementation**



Shutdowns, recalls, loss of life – just one cleanroom contamination event can be catastrophic for your company. It's essential to choose cleanroom apparel that offers the highest level of BFE. When was the last time you saw data that proves the BFE of your reusable apparel is acceptable? Can you afford the risk of using unpredictable reusables?

Apparel

Disposable - Critical Environment

Sterile

DuPont™ Tyvek™ IsoClean™ Sterile Coveralls with Dolman Sleeves

The patented flashspinning process of DuPont Tyvek IsoClean Coveralls creates an excellent barrier to dry particles, microorganisms and nonhazardous liquids

- Made from DuPont Tyvek brand flashspun polyolefin protective material
- Comfortable, lightweight and durable
- Gamma sterilized to an SAL of 10^{-6}
- Bound seams, bound neck and zipper entry
- Covered elastic wrists and ankles
- Clean processed and individually packaged in an ISO Class 4 cleanroom
- Full traceability
- Recyclable
- Gripper™ soles offer a higher level of slip resistance than standard PVC soles

ALERTS:
Garments made of Tyvek should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

17-988-046

Size	Mfr. No.	Cat. No.	Case of 25
Small	IC253BWHSM0025CS	**17-988-043**	596.00
Medium	IC253BWHMD0025CS	**17-988-044**	596.00
Large	IC253BWHLG0025CS	**17-988-045**	596.00
X-Large	IC253BWHXL0025CS	**17-988-046**	596.00
2X-Large	IC253BWH2X0025CS	**17-988-047**	631.50
3X-Large	IC253BWH3X0025CS	**17-988-048**	669.00
4X-Large	IC253BWH4X0025CS	**17-988-049**	740.00

Kimberly-Clark Professional™ KIMTECH PURE™ A5 Sterile Coveralls with Clean-Don Technology

100% Polypropylene breathable SMS fabric has cloth-like feel

- Zip-up coverall
- Suitable for ISO Class 5 or higher

CLEAN-DON™ Technology with:

- Built-In thumb loop keeps garment sleeve from rolling back and exposing arm or wrist
- Innovative inside-out fold pattern presents inside of garment as package is opened, reducing risk of touching and contaminating outside of apparel
- Patent-pending highly visible blue line along inside of garment signals the proper place to grasp while gowning, helping workers avoid touching outside of garment
- Patent-pending snap technology features built-in snaps that gather up legs and arms to lower the risk of touching the floor, then automatically release as garment is put on

19-057-492

Size	Mfr. No.	Cat. No.	Case of 25
Small	88800	**19-057-475**	543.71
Medium	88801	**19-057-476**	543.71
Large	88802	**19-057-490**	543.71
X-Large	88803	**19-057-491**	543.71
2X-Large	88804	**19-057-492**	576.13
3X-Large	88805	**19-057-493**	610.83
4X-Large	88806	**19-057-494**	647.78
5X-Large	12917	**18-042-910**	723.75
6X-Large	12914	**18-042-911**	723.75

DID YOU KNOW...

You should avoid wearing clothing made with natural fibers, such as cotton, linen and wool, as they shed particles that can migrate outside cleanroom garments. Clothing made from synthetic materials, including rayon, nylon and polyester, are generally more practical for working in a cleanroom.

LOOKING FOR MORE...?

For your cleaning needs see our Buckets and Mops Section.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

DuPont™ Tyvek™ IsoClean™ Sterile Boot Covers

Create an excellent barrier to dry particles, microorganisms and nonhazardous liquids

- Gamma sterilized to an SAL of 10^{-6}
- Serged seams
- Elastic opening
- Ties at ankle
- 18" (45.72cm) high
- Color: White

ALERTS:
Garments made of Tyvek should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

17-988-093

Size	Mfr. No.	Cat. No.	Case of 100
PVC soles			
Medium	IC457SWHMD01000S	**17-988-093**	341.50
Large	IC457SWHLG01000S	**17-988-094**	341.50
X-Large	IC457SWHXL01000S	**17-988-095**	341.50
Gripper™ soles			
Large	IC458BWHLG0100CS	**17-988-099**	422.50
X-Large	IC458BWHXL0100CS	**19-813-220**	422.50

Kimberly-Clark Professional™ KIMTECH PURE™ A5 Sterile Boot Covers with CLEAN-DON™ Technology

Innovative CLEAN-DON™ technology makes donning easier and reduces risk of contamination

Ideal for wetter applications.

- Side grasp ties for secure fit
- Vinyl material covers the whole foot
- Edge vinyl sole reduces slipping and liquid penetration
- Seam positioned upwards, away from the floor
- Type 6 PPE Category III for "parts of the body"
- Sterility assurance level 10^{-6}
- Vacuum-sealed packaging

19-169-902

Size	Mfr. No.	Cat. No.	Case of 100
Universal	31696	**19-169-903**	778.62
Small/Medium	31683	**19-169-902**	762.78
X-Large/2X-Large	31697	**19-169-904**	805.01

Kimberly-Clark Professional™ KIMTECH PURE™ A5 Sterile Integrated Hood and Mask with CLEAN-DON™ Technology

Innovative CLEAN-DON™ Technology makes donning easier and reduces risk of contamination

Integrated hood/mask sonically welded together combines 2 donning steps into 1.

- Latex-free
- Vacuum-sealed package
- Pull-down ties in back to assist in the gowning process
- Stretch-fit elastic
- Blue line along inside of garment signals the proper place to grasp while donning, helping workers avoid touching the outside of the garment
- Type 6 PPE Category III for "parts of the body"
- Sterility assurance level 10^{-6}

Size	Mfr. No.	Cat. No.	Case of 75
Universal	36072	**19-048-606**	451.00

19-048-606

Kimberly-Clark Professional™ KIMTECH PURE™ A5 Sterile Sleeve Protector with CLEAN-DON™ Technology

Innovative CLEAN-DON technology makes donning easier and reduces risk of contamination

17-150-200

- 18" Length
- Blue line donning signal feature
- Thumb loop keeps sleeve from rolling back and exposing arm or wrist
- SMS Material for cloth-like comfort
- Type 6 PPE Category III for "parts of the body"
- Sterility assurance level 10^{-6}

Size	Mfr. No.	Cat. No.	Case of 200
Universal	36077	**17-150-200**	283.93

Nonsterile

Kimberly-Clark Professional™ KIMTECH PURE™ A5 Cleanroom Boot Covers

Made of 100% polypropylene breathable SMS fabric

- Suitable for ISO Class 5 or higher cleanrooms
- Cloth-like feel
- Tunneled elastic and bound seams
- Triple-bagged
- Latex-free

19-812-864

Size	Mfr. No.	Cat. No.	Case of 100
Cleanroom Processed			
Universal	88850	**19-812-864**	666.63
X-Large/2X-Large	12919	**18-042-916**	611.23
Small/Medium	12921	**18-042-917**	611.23

DuPont™ Tyvek™ IsoClean™ Coveralls

Create an excellent barrier to dry particles, microorganisms and nonhazardous liquids

Made from polyolefin protective material

- Comfortable, lightweight and durable
- Bound neck with raglan sleeves
- Serged seams
- Elastic wrist and ankle
- Zipper closure
- Bulk packaged
- Color: White

ALERTS:
Garments made of Tyvek should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

17-988-052

Size	Mfr. No.	Cat. No.	Case of 25
Medium	IC258SWHMD00250B	**17-988-051**	336.09
Large	IC258SWHLG00250B	**17-988-052**	336.09
X-Large	IC258SWHXL00250B	**17-988-053**	336.09
2X-Large	IC258SWH2X00250B	**17-988-054**	356.49
3X-Large	IC258SWH3X00250B	**17-988-055**	377.91
4X-Large	IC258SWH4X00250B	**17-988-056**	417.69

DuPont™ Tyvek™ IsoClean™ Series 447 Boot Covers

Gripper™ soles resist slipping on slick surfaces

Tyvek IsoClean fabric is antistatic and low linting and provides an excellent barrier to dry particulates, nonhazardous liquids and microorganisms.

- Coarsely textured interior to help prevent movement inside
- PVC Gripper™ soles provide excellent barrier to liquid penetration
- 18" high (45.7cm) Tyvek uppers with elastic leg and ankle openings
- White with serged seams
- Also available in gamma sterilized

ORDERING INFORMATION:
Bulk covers are bulk packaged in double transparent poly liners.

19-039-870

Size	Mfr. No.	Cat. No.	Case of 100
Clean and Sterile Packaged			
Medium	IC447SWHMD01000B	**19-039-870**	296.50
Large	IC447SWHLG01000B	**19-039-871**	296.50
X-Large	IC447SWHXL01000B	**19-039-728D**	296.50

KIMTECH PURE* A8 UNITRAX* Shoe Covers for your one solution

More Grip = Less Slip

SEE MORE...

Click here to find out why the KIMTECH PURE* A8 UNITRAX* Shoe Covers are the Safer Choice

DEMO KIMTECH PURE* A8 UNITRAX* Shoe Covers

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Conductive Polypropylene Shoe Covers

Less static buildup

- Constructed from a medium weight and breathable polypropylene fabric that has a cloth-like feel.
- Conductive carbon strip helps eliminate static buildup
- With elastic ankles

ORDERING INFORMATION:
Packed in double polybag.

19-098-925

Size	Cat. No.	Pack of 50 Pair	Case of 3 Pk.
Regular	**19-098-925**	101.80	276.00
X-Large	**19-098-926**	99.78	264.90

Fisherbrand® Polylatex Shoe Covers

Skid resistant

19-098-927

Durable, zero particulate shoe covers repel liquids.

- Constructed of blue polylatex fabric
- With seamed or seamless bottom
- Elastic ankle for comfortable fit

ORDERING INFORMATION:
Packed in double polybag.

ALERTS:
This product contains natural rubber latex, a component of which may cause allergic reaction in some users. Use only in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Size	Cat. No.	Pack of 50 Pair	Case of 3 Packs
Seamed Bottom			
Regular	**19-098-927**	62.20	165.14
X-Large	**19-098-929**	62.20	165.14
Seamless Bottom			
Regular	**19-098-928**	62.20	165.14
X-Large	**19-098-930**	62.20	165.14

AlphaProTech™ Critical Cover™ AquaTrak™ Shoe Covers

AquaTrak material keeps wearer stable and protected in wet and dry conditions

- Anti-skid properties provide amazing slip and fall protection, with no additional coatings
- Material is fluid-impervious
- Serged seam soles provide a great fit and can be used in dry or moist conditions
- High breathability, low particulate count fabric wears comfortably and completely contains contamination
- For additional styles and colors, visit fishersci.com

19-130-1499

Color	Size	Mfr. No.	Cat. No.	Case of 75 Pair
Serged seams, Seamless sole, Butterfly style				
Blue	Universal	SH-91182-B	**19-130-1498**	91.70
Blue	X-Large	SH-91183-B	**19-130-1499**	97.60
Blue	2X-Large	SH-91184-B	**19-130-1500**	111.30
White	Universal	SH-T1182-B	**19-130-1495**	91.70
White	X-Large	SH-T1183-B	**19-130-1496**	95.37
White	2X-Large	SH-T1184-B	**19-130-1497**	111.30

AlphaProTech™ Critical Cover™ SureGrip™ Shoe Covers

Provide excellent combination of traction, durability and cleanliness

- Constructed of SureGrip proprietary material
- Inherently nonskid bottom
- Elastic cuff with serged seams
- Thread colors provide size identification

ORDERING INFORMATION:
Available in Gaylord packaging.

19-023-020

Description	Mfr. No.	Cat. No.	Case of
Non-skid	SH-X1222-B	**19-520-31**	150 Pair/139.60
Non-skid	SH-X1223-B	**19-523-02**	150 Pair/143.36
Non-skid	SH-X1224-B	**19-023-020**	150 Pair/154.90
Conductive for ESD concerns, anti-skid	SH-12522-B	**19-166-975**	150 Pair/223.50
Conductive for ESD concerns, anti-skid	SH-12523-B	**19-166-976**	150 Pair/232.00
Gaylord Packaging; Non-skid	SH-X1273-B	**19-065-337A**	4500 Pair/4130.00
Gaylord Packaging; Non-skid	SH-X1274-B	**19-065-337B**	4500 Pair/4390.00

ON THE WEB...

For additional critical apparel selections

Visit www.fishersci.com and search for Clean Processed Apparel

AlphaProTech Critical Cover™ CPE Shoe Covers

Ideal for short wear applications or transition through cleanroom dress area

SureGrip™ and AquaTrak™ shoe and boot covers slide easily over this shoe cover to speed up donning of final cleanroom cover.

- Lightweight all film construction
- Fluid resistant
- Seamless sole with heat-sealed seams
- Latex free

19-130-1476

Size	Color	Mfr. No.	Cat. No.	Case of 1000
X-Large	White	SH-G1253-B	**19-130-1475**	124.70
X-Large	Blue	SH-H1253-B	**19-130-1476**	124.70

DuPont™ Tyvek™ IsoClean™ Shoe Covers

Comfortable, lightweight and durable

- Serged seams
- Elastic opening
- Elastic toe
- PVC sole
- 5" high (12.7cm)
- Bulk packaged
- Color: White

17-988-105

Size	Mfr. No.	Cat. No.	Case of 300
Medium	IC461SWHMD03000B	**17-988-104**	454.00
Large	IC461SWHLG03000B	**17-988-105**	454.00
X-Large	IC461SWHXL03000B	**17-988-106**	454.00

DuPont™ Tyvek™ IsoClean™ Nonsterile Sleeves

Comfortable, lightweight and durable

- Bound seams
- Covered elastic wrist, bicep
- Length: 18" (45.7cm)
- Color: White

ALERTS:
Garments made of Tyvek should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

17-988-107

Packaging	Mfr. No.	Cat. No.	Case of 100
Bulk packed	IC501BWH0001000B	**17-988-107**	178.30
Clean packed	IC501BWH0001000C	**17-988-108**	225.00

Disposable - General Purpose

Coveralls

DuPont™ Tyvek™ Coveralls

Provide excellent inherent protection against submicron airborne particles

Lightweight, chemically and biologically inert, and tear resistant.

- Full-length coveralls are cut generously for wearing over clothing
- Provide limited splash protection
- Economical enough to discard after wearing, yet strong enough to withstand several wearings
- Nylon zippered front
- Color: White

ORDERING INFORMATION:
Additional sizes available. Contact your Fisher Safety Customer Service Representative for ordering information.

ALERTS: Garments made of Tyvek should not be used around heat, flames, sparks, or in potentially flammable or explosive environments.

01-361-4C

Size	Mfr. No.	Cat. No.	Case of 25
Elasticized wrists and ankles			
Medium	TY125SWHMD002500	**01-361-4B**	265.50
Large	TY125SWHLG002500	**01-361-4C**	265.50
X-Large	TY125SWHXL002500	**01-361-4D**	265.50
2X-Large	TY125SWH2X002500	**01-361-4E**	281.00
3X-Large	TY125SWH3X002500	**01-361-4F**	298.00
4X-Large	TY125SWH4X002500	**19-308-647**	321.50
Elasticized wrists and ankles, attached hood			
Medium	TY127SWHMD002500	**01-361-7B**	284.00
Large	TY127SWHLG002500	**01-361-7C**	284.00
X-Large	TY127SWHXL002500	**01-361-7D**	284.00
2X-Large	TY127SWH2X002500	**01-361-7E**	301.50
3X-Large	TY127SWH3X002500	**01-361-7F**	319.00
4X-Large	TY127SWH4X002500	**19-308-661**	344.50
Elasticized wrists, attached hood and boots			
Medium	TY122SWHMD002500	**01-361-2B**	288.50
Large	TY122SWHLG002500	**01-361-2C**	288.50
X-Large	TY122SWHXL002500	**01-361-2D**	288.50
2X-Large	TY122SWH2X002500	**01-361-2E**	305.50
3X-Large	TY122SWH3X002500	**01-361-2F**	324.00
4X-Large	TY122SWH4X002500	**01-361-2G**	349.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimberly-Clark Professional™ KLEENGUARD™ A30 Breathable Splash Particle Protection Coveralls

Combine durability and breathability to provide comfortable splash and particle protection

MICROFORCE™ Barrier SMS Fabric incorporates a web of microfibers that filter particulates and water-based liquids. Suitable for many applications including pharmaceutical research, food processing and more.

- Excellent protection from nonhazardous particles and liquids
- Strong and abrasion resistant; suitable for multiple wearings
- Seamless front to provide more protection in the primary exposure areas
- Zipper front with 1" (2.5cm) flap and elastic back
- Color: White

19-170-387B

COMPLIANCE: Passes NFPA 99 for antistatic materials.

Size	Mfr. No.	Cat. No.	Case of
Elastic back, wrists and ankles			
Medium	46102	**19-170-387A**	25/239.95
Large	46103	**19-170-387B**	25/239.95
X-Large	46104	**19-170-387C**	25/239.95
2X-Large	46105	**19-170-387D**	25/239.95
3X-Large	46106	**19-170-387E**	21/239.95
4X-Large	46107	**19-170-387F**	21/239.95

ACCESSORIES

See our Gloves section for all of your hand protection needs.

ON THE WEB...

See Fisher Scientific for additional lab coats. A variety of colors available in SMS material.

Visit www.fishersci.com and search for Fisherbrand Lab Coats

Lab Coats

Fisherbrand® Basic Protection Disposable SMS Lab Coats — White and Medical Blue

Durable splash and dust protection

Single-use lab coats provide high durability and protection. Excellent particle retention and water vapor transmission (cool to wear).

- Latex-free, three-layer SMS construction
- Packed 30 lab coats/case
- Available in a variety of colors
- Knit cuffs hold sleeves in place; standard collar
- Three pockets and a five-snap closure
- Fabric weight: 50g/m^2 t
- Fluid resistant
- Protection from particulates
- Use different colors to designate different areas of work environment

17-100-875

Size	Cat. No.	Case of 30
SMS White 3 Pocket Straight Collar		
X-Small	**17-100-808**	130.00
Small	**17-100-809**	130.00
Medium	**17-100-810**	130.00
Large	**17-100-811**	130.00
X-Large	**17-100-812**	130.00
2X-Large	**17-100-813**	140.00
3X-Large	**17-100-814**	140.00
4X-Large	**17-100-815**	140.00
SMS Lt Blue 3 Pocket Straight Collar		
X-Small	**17-100-872**	135.00
Small	**17-100-873**	135.00
Medium	**17-100-874**	135.00
Large	**17-100-875**	135.00
X-Large	**17-100-876**	135.00
2X-Large	**17-100-877**	145.00
3X-Large	**17-100-878**	140.00
4X-Large	**17-100-879**	140.00

Size	Body Length (in.)	Chest Circum. (in.)	Sleeve Length (in.)
X-Small	34	46	22
Small	35	47	23
Medium	38	49	23
Large	39	51	23
X-Large	41	53	23
2X-Large	43	55	24
3X-Large	45	57	24
5X-Large	50	59	24

Fisherbrand® Basic Protection Disposable Polypropylene Lab Coats with Elastic Cuffs

Latex-free spunbond polypropylene construction

- Single-use lab coat
- Standard collar; no pockets
- Packed 25 lab coats/case
- Elastic cuffs hold sleeves in place
- Five snaps for a secure closure
- Fabric weight: 48g/m²
- Color: white

Size	Cat. No.	Case of 25
Basic White Polypro		
X-Small	**17-100-800**	90.00
Small	**17-100-801**	90.00
Medium	**17-100-802**	90.00
Large	**17-100-803**	90.00
X-Large	**17-100-804**	90.00
2X-Large	**17-100-805**	110.00
3X-Large	**17-100-806**	110.00
4X-Large	**17-100-807**	110.00

17-100-803

Fisherbrand® Basic Protection Disposable Polypropylene Lab Coats with Pockets

Single-use lab coats with pockets provide economical, light, breathable protection

- Latex-free spunbond polypropylene construction
- High level of breathability
- Packed 30 lab coats/case
- Available in medical blue or white
- Knit cuffs hold sleeves in place
- Three pockets and a five-snap closure
- Standard collar
- Fabric weight: 48g/m²

Size	Cat. No.	Case of 30
Polypro White 3 Pocket Straight Collar		
X-Small	**17-100-880**	110.00
Small	**17-100-881**	110.00
Medium	**17-100-882**	110.00
Large	**17-100-883**	110.00
X-Large	**17-100-884**	110.00
2X-Large	**17-100-885**	130.00
3X-Large	**17-100-886**	130.00
4X-Large	**17-100-887**	130.00
Polypro Blue 3 Pocket Straight Collar		
X-Small	**17100888**	110.00
Small	**17100889**	110.00
Medium	**17100890**	110.00
Large	**17100891**	110.00
X-Large	**17100892**	110.00
2X-Large	**17100893**	130.00
3X-Large	**17100894**	130.00
4X-Large	**17100895**	130.00

17-100-891

DuPont™ Tyvek™ Lab Coats

Disposable, yet strong enough to withstand several wearings

Provide excellent protection against submicron particles.

- Lightweight and tear-resistant Tyvek fabric
- Knee length with five-snap front and full sleeves
- Chemically and biologically inert
- Provide limited splash protection
- Color: White

APPLICATIONS:
Lead and asbestos abatement/ remediation, general maintenance/ operations, spray painting, general clean-up.

ALERTS:
Garments made of Tyvek should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

19-900-021

Size	Mfr. No.	Cat. No.	Case of 30
No Pockets, Open Wrists			
Small, Standard	TY210SWHSM003000	**19-013-069**	226.00
Medium, Standard	TY210SWHMD003000	**19-087-221**	226.00
Large, Standard	TY210SWHLG003000	**19-087-222**	226.00
X-Large, Standard	TY210SWHXL003000	**19-087-223**	226.00
2X-Large, Standard	TY210SWH2X003000	**19-087-224**	239.50
No Pockets, Elasticized Wrists			
Medium, Standard	TY211SWHMD003000	**19-165-224**	251.50
Large, Standard	TY211SWHLG003000	**19-900-021**	251.50
X-Large, Standard	TY211SWHXL003000	**19-900-022**	251.50
2X-Large, Standard	TY211SWH2X003000	**19-054-106**	266.50
3X-Large, Standard	TY211SWH3X003000	**19-165-225**	282.50
4X-Large, Standard	TY211SWH4X003000	**19-054-105**	305.00
Two Pockets, Open Wrists			
Small, Standard	TY212SWHSM003000	**01-361-10A**	230.00
Medium, Standard	TY212SWHMD003000	**01-361-10B**	230.00
Large, Standard	TY212SWHLG003000	**01-361-10C**	230.00
X-Large, Standard	TY212SWHXL003000	**01-361-10D**	230.00
2X-Large, Standard	TY212SWH2X003000	**01-361-10E**	244.00
3X-Large, Standard	TY212SWH3X003000	**19-308-674**	258.50
4X-Large, Standard	TY212SWH4X003000	**19-308-675**	279.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimberly-Clark Professional™ KLEENGUARD™ A65 Flame-Resistant Lab Coats

Designed for use in areas where exposure to sparks or flame is possible

Ideally suited for use in laboratories.

- Comfortable, breathable and durable fabric resists tearing
- Hook and loop closures
- No pocket
- May also be used to protect primary fire protection clothing

COMPLIANCE:
Meets NFPA 701 FLAME PROPAGATION TEST, 1989 Edition. Complies with the flame-resistance requirements cited by paragraph 6.1 of CAN/CGSB-155.20-2000. NFPA 99 compliant antistatic material.

19-047-720

Size	Mfr. No.	Cat. No.	Case of 25
Medium	12810	**19-047-720**	302.27
Large	12811	**19-047-721**	302.27
X-Large	12812	**19-047-722**	302.27
2X-Large	12813	**19-047-723**	302.33
3X-Large	12814	**19-047-724**	332.96
4X-Large	12815	**19-047-725**	341.26

High Five™ Velcro™ PPSB Lab Coats

Velcro closure for an adjustable fit

Breathable and comfortable spunbound polypropylene

- Protects from dust and grime
- Closure stays securely shut
- White

19-156-162

Size	Mfr. No.	Cat. No.	Case of 30
Small	AL701	**19-156-161**	28.81
Medium	AL702	**19-156-162**	29.46
Large	AL703	**19-156-163**	32.15
X-Large	AL704	**19-156-164**	33.48
2X-Large	AL705	**19-156-165**	34.17
3X-Large	AL706	**19-156-166**	34.82
4X-Large	AL707	**19-156-167**	35.48
5X-Large	AL708	**19-156-168**	36.16

Kimberly-Clark Professional™ KLEENGUARD™ A20 Breathable Particle Protection Lab Coats

Withstand multiple wearings

- Tailored style made of breathable patented MICROFORCE™ Barrier SMS Fabric
- Feature long sleeves, notched-lapel collar
- Air and moisture vapor can pass through to aid wearer comfort
- White
- Plastic snap-front closure
- One front chest pocket and one front hip pocket

COMPLIANCE: NFPA 99 compliant antistatic material

01-349C

Size	Mfr. No.	Cat. No.	Case of 25
Medium	10019	**01-349B**	214.58
Large	10029	**01-349C**	214.58
X-Large	10039	**01-349D**	214.58

DuPont™ Tyvek™ Series 216 Frock with Mandarin Collar

Flash-spun high-density polyethylene provides an ideal balance of protection, durability and comfort

Ideal for lead and asbestos abatement/remediation, general maintenance/operations, spray painting, general clean-up.

- Inherent barrier to small size particles built into the fabric itself — no films or laminates to abrade or wear away
- Body-length jacket with five front snap closures for easy donning and doffing
- Enhanced frontal protection
- Mandarin collar fits tightly around hooded PAPR
- Elastic opening for tighter fit at wrist
- Serged seams
- White

19-813-2155

Size	Mfr. No.	Cat. No.	Case of 30
Small	TY216SWHSM003000	**19-813-2155**	229.00
Medium	TY216SWHMD003000	**19-823-600**	242.00
Large	TY216SWHLG003000	**19-823-601**	242.00
X-Large	TY216SWHXL003000	**19-823-602**	242.00
2X-Large	TY216SWH2X003000	**19-823-603**	256.50
4X-Large	TY216SWH4X003000	**19-823-605**	280.50

Kimberly-Clark Professional™ KLEENGUARD™ A20 Breathable Particle Protection Smock

Economical, breathable smock

- Breathable patented MICROFORCE™ barrier SMS fabric
- Elastic cuffs on sleeves; no collar or pockets
- Back-closure with glued-on belt that fastens in back
- White

COMPLIANCE:
NFPA 99 compliant antistatic material

17-987-236A

Size	Mfr. No.	Cat. No.	Case of 60
Universal	36150	**17-987-236A**	271.64

Accessories

Fisherbrand® Heavyweight Polypropylene Shoe Covers

Strong, heavyweight polypropylene

Available with or without nonskid surface

- Elastic ankles

ORDERING INFORMATION:
Packed in double polybag.

19-098-921

Size	Cat. No.	Pack of 50	Case of 3 Packs
With Nonskid Surface			
Regular	**19-098-923**	61.23	162.56
X-Large	**19-098-924**	62.50	170.70
Without Nonskid Surface			
Regular	**19-098-921**	55.01	141.05
X-Large	**19-098-922**	55.01	141.05

DuPont™ ProShield™ 3 Skid-Resistant Boot Covers

Skid-resistant soles

- Height: 8" (20.3cm)
- Thickness: 12mil
- Elastic opening; serged seams
- Color: Gray

19-715-317

Size	Mfr. No.	Cat. No.	Case of 100 Pr.
Universal	P3450SGY000200LG	**19-715-317**	292.00

DuPont™ SureStep™ Shoe Covers

Help to keep workers clean and safe

- Resistant to liquids
- Will not delaminate
- Lint-free
- Generously sized
- Have skid-resistant sole
- Elastic ankles for secure fit
- Seamless

19-045-450C

Size	Mfr. No.	Cat. No.	Case of 100 Pr.
Blue Monofilament-Coated Fabric			
Large	PE440SBULG020000	**19-047-744**	121.40
X-Large	PE440SBUXL020000	**19-047-745**	121.40
White Monofilament-Coated Fabric			
Large	PE440SWHLG020000	**19-045-450C**	119.90
X-Large	PE440SWHXL020000	**19-088-2235**	120.10

Fisherbrand® Facemasks

Reduce particle generation

Thin middle layer of meltblown polypropylene filter media lies between spunbonded polypropylene inner and outer layers.

- Bacterial filtration efficiency is 99%
- Layers ultrasonically welded to reduce particle generation
- Blue outer layer with white inner layer
- Elastic ear loops or polypropylene ties, with or without plastic clip

18-960C

Style	Cat. No.	Case of
With ear loops and clips	**18-960A**	600/373.38
With ear loops	**18-960B**	500/213.73
With ties	**18-960C**	300/145.02

Fisherbrand® Full- and Mid-Size Faceshields

High-quality, optically clear, distortion-free 7mil film

- Polyester lens is treated with antifog and antistatic coating
- Headpiece is held in place by a stretch strap and includes a latex-free foam band for comfortable extended wear

COMPLIANCE:
Conform to OSHA 29CFR Part 1910.1030 for bloodborne pathogens and the CDC's recommendation for protective eyewear.

19-460-101

Description	Cat. No.	Pack of 25	Case of 4 Packs
Full-Size	**19-460-102**	56.20	185.70
Mid-Size	**19-460-101**	58.60	195.20

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Latex-Free Polypropylene Bouffant Caps

Lightweight, nonlinting polypropylene bouffant caps

Made of 100% spunbonded polypropylene, caps feature a synthetic band stitched in with soft floss for a comfortable, secure fit.

- High filtration yet breathable
- Disposable

ORDERING INFORMATION:
Double polybagged; flat packed for easy storage.

19-098-914

Diameter	Cat. No.	Pack of 100	Case of 5 Pk.
White			
18" (46cm)	**19-098-910**	21.76	93.00
21" (53cm)	**19-098-913**	21.89	93.56
24" (61cm)	**19-098-914**	25.01	106.89
28" (71cm)	**19-098-912**	33.08	141.37
Blue			
21" (53cm)	**19-098-915**	21.89	93.56
24" (61cm)	**19-098-916**	25.01	106.89

Kimberly-Clark Professional™ KLEENGUARD™ A10 Light-Duty Bouffant Caps

Breathable polypropylene

- Single layer, spunbond polypropylene
- Latex-free
- White

ORDERING INFORMATION:
Available in case of 1000 caps (in 10 polybags containing 100 caps each).

17-981-43A

Size	Width	Mfr. No.	Cat. No.	Case of 1000
Medium	21"	36850	**17-981-43A**	136.89
Large	24"	36860	**17-981-43B**	331.77

Fisherbrand® Polypropylene Beard Cover

Cool and comfortable

Excellent for use in food preparation and industries where body contaminants are a concern.

- Cool, nonflammable, nonparticulating
- Comfortable elastic seams
- Latex-free
- White

19-098-917

Size	Cat. No.	Pack of 100	Case of 5 Pk.
Regular	**19-098-917**	21.74	92.91
X-Large	**19-098-918**	21.74	92.91

Aprons, Sleeves and Gowns

Fisherbrand® Disposable Polyethylene Apron

Lightweight plastic apron is sturdy enough to be reused

- Thickness: 1.0 mil
- Color: White
- Sold in handy dispenser pack

19-181-529

Cat. No.	Pack of 50	Case of 5 Packs
19-181-529	35.72	154.16

Fisherbrand® Resin-Coated Aprons

Withstand prolonged use in industrial laboratories

- Synthetic resin coating over cotton/polyester fabric is longer lasting than rubber
- Color: Brown

01-353B

L × W	Cat. No.	Each	Pack of 12
36 × 27" (91 × 69cm)	**01-353A**	99.95	955.00
46 × 36" (117 × 91cm)	**01-353B**	155.00	1515.00

DuPont™ ProShield™ NexGen™ Apron and Sleeves

Maximum protection at affordable cost

DuPont ProShield NexGen™ is liquid resistant and provides a true aerosol barrier, with >99% holdout of particles down to 0.35µm. Proprietary microporous technology gives aprons and sleeves effective protective properties at an economical price. Perfect for applications involving nontoxic liquid or spray hazards.

19-048-402A

Apron

- Bib-style apron provides coverage of front and sides
- With bound neck and ties
- Length: 36" (91cm)
- Color: White

Sleeves

- Elastic at both ends
- Length: 18" (46cm)
- Color: White

ORDERING INFORMATION:
Aprons: Case of 100;
Sleeves: Case of 200 (100 pairs)

Description	Mfr. No.	Cat. No.	Case of
Apron	NG273BWH00010000	**19-048-402A**	100/217.00
Sleeve	NG500SWH00020000	**19-088-2165**	100 Pr./115.10

DuPont™ Tyvek™ Bib Apron and Sleeves

Protect against many hazardous powders

Nonwoven Tyvek fabric helps resist penetration by particles and other contaminants. The inherent barrier stops submicron particles even after abrasion.

01-361-83

Apron

- Provide coverage of front and sides
- With bound neck and ties
- Color: White

Sleeves

- Offer wrist-to-elbow protection
- Elasticized seams at both ends
- Color: White

ALERTS:
Garments made of Tyvek™ should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

Description	Mfr. No.	Cat. No.	Case of
Apron	TY273BWH00010000	**01-361-83**	100/222.50
Sleeves	TY500SWH00020000	**01-361-21**	100Pr./141.30

Kimberly-Clark Professional™ KLEENGUARD™ A20 Polyethylene Apron

Economical, lightweight disposable apron

For general lab use.

- Lightweight and breathable
- Strong and abrasion-resistant for extended wear
- Patented MICROFORCE™ fabric offers barrier protection against dry particulates and light liquid sprays
- Color: White

ORDERING INFORMATION:
Packaged in handy dispenser pack.

17-981-54C

L x W	Mfr. No.	Cat. No.	Pack of 100	Case of 5 Pk.
46L × 28"W (117 × 71cm)	43745	**17-981-54C**	94.07	340.45

Kimberly-Clark Professional™ KLEENGUARD™ A20 Breathable Apron and Sleeve Particle Protection

Secure fit

Made from breathable, patented MICROFORCE™ barrier SMS fabric.

01-366-5B

Apron

- Measures 40L × 28"W (102 × 71cm)
- Color: White

Sleeve Protectors

- Provide secure fit and allow unrestricted movement
- Elastic seams at both ends
- One size fits all
- Length: 21" long (53.3m)
- Color: White

Description	Mfr. No.	Cat. No.	Case of
Apron	36550	**01-366-5B**	100/239.30
Sleeves	36870	**17-981-41D**	200/161.40

DuPont™ Tychem™ ThermoPro Chemical Protection Aprons

A single layer garment that provides triple hazard protection from flash fire, electric arc and liquid-chemical splash

Tychem ThermoPro garments are designed to combine the trusted chemical protection of Tychem and thermal/arc protection of Nomex™ into a single layer garment.

- Provides at least one hour breakthrough protection against 20 of the 21 standard ASTM F1001 chemicals and at least 30 minutes of protection against 182 chemical challenges
- Certified to NFPA 1992 (2005) and NFPA 2112 (2007)
- Arc rating of 15.2 cal/cm² Ebt which exceeds the NFPA 70E Hazard Risk Category 2 requirement of 8 cal/cm²
- Taped seam
- Universal size

19-120-955

Color	Mfr. No.	Cat. No.	Case of 4
Gray	TP278TGY00000400	**19-120-955**	433.00
Orange	TP278TOR00000400	**19-120-956**	433.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Reusable

Lab Coats

Bulwark™ Excel-FR™ Lab Coats

Protection: Arc Rating ATPV 7.7 calories/cm²

- Flame-resistant, 7 oz. 100% cotton
- Button-front closure with lapel collar
- Hemmed sleeve ends
- Side-vent openings
- Color: Light Blue
- Hazard rating class 1

19-816-951

Size	Mfr. No.	Cat. No.	Each
Small	KEL2LBRGS	**19-816-949**	92.60
Medium	KEL2LBRGM	**19-816-950**	92.60
Large	KEL2LBRGL	**19-816-951**	92.60
X-Large	KEL2LBRGXL	**19-816-952**	92.60
2X-Large	KEL2LBRGXXL	**19-816-953**	110.40
3X-Large	KEL2LBRG3XL	**19-295-000**	122.40
4X-Large	KEL2LBRG4XL	**19-295-001**	122.40

Bulwark™ Nomex™ IIIA HRC1 Lab Coats

Constructed with flame-resistant Nomex IIIA fabric

- Arc Rating: ATPV 5.6 calories/cm²
- Button-front closure
- Lapel collar
- Left chest pocket
- Hemmed sleeve ends
- Side vent openings
- Color: Royal Blue
- Hazard rating class 1

19-166-1070

Size	Mfr. No.	Cat. No.	Each
Small	KNL2RBRGS	**19-166-1068**	210.50
Medium	KNL2RBRGM	**19-166-1069**	210.50
Large	KNL2RBRGL	**19-166-1070**	210.50
X-Large	KNL2RBRGXL	**19-166-1071**	210.50
2X-Large	KNL2RBRGXXL	**19-166-1072**	245.00
3X-Large	KNL2RBRG3XL	**19-295-002**	275.00

Fisherbrand® Counter Coats

Blazer style with rounded front

- 5 oz. performance blend 80/20 poly/combed cotton poplin
- Pre-cured durable press with soil-release treatment
- Button closure
- One-piece, lined, notched lapel collar
- Left breast pocket with bartacked pencil stall and two lower pockets
- White

19-166-317

Size	Cat. No.	Each
X-Small	**19-166-321**	42.91
Small	**19-166-319**	42.91
Medium	**19-166-318**	42.91
Large	**19-166-317**	42.91
X-Large	**19-166-320**	42.91
3X-Large	**19-166-316**	47.20

Fisherbrand® Men's Poly/Cotton Lab Coats

Side vent openings offer better breathability

- Made of 80/20 polycotton, 5 oz. performance-blend fabric
- One-piece, lined, notched lapel collar
- Front gripper closures
- Two outside lower pockets with one left breast pocket
- White or Light Blue

19-166-262

Size	Cat. No.	Each
White		
X-Small	**19-166-268**	62.50
Small	**19-166-260**	44.95
Medium	**19-166-261**	44.95
Large	**19-166-262**	44.95
X-Large	**19-166-263**	44.95
2X-Large	**19-166-264**	53.75
3X-Large	**19-166-265**	53.75
4X-Large	**19-166-266**	83.75
5X-Large	**19-166-267**	83.75
Light Blue		
Small	**19-168-868A**	50.95
Medium	**19-168-868B**	50.95
Large	**19-168-868C**	50.95
X-Large	**19-168-868D**	50.95
2X-Large	**19-168-868E**	60.95
3X-Large	**19-168-868F**	60.95

Fisherbrand® Poly/Cotton Bib Apron

- 7.5 oz., 65% polyester/35% cotton twill
- Soil-release finish
- Tubular-braid waist ties
- White

19-168-325

W × L	Cat. No.	Each
30 × 33" (76.2 × 83.8cm)	**19-168-325**	19.14

Fisherbrand® Unisex Lab Coats

Knit wrist cuffs provide comfortable and secure fit

- Made of 80/20 polycotton, 5 oz. performance-blend fabric
- Precured durable press with soil-release treatment
- One-piece, lined, notched lapel collar
- 100% polyester-knit cuffs
- Front gripper closures
- One outside left breast pocket, two outside lower pockets
- Length: 41.5" (105cm) based on a size medium
- White

19-166-226

Size	Cat. No.	Each
X-Small	**19-166-223**	36.85
Small	**19-166-224**	36.85
Medium	**19-166-225**	36.85
Large	**19-166-226**	36.85
X-Large	**19-166-227**	36.85
2X-Large	**19-166-228**	44.20
3X-Large	**19-166-229**	44.20
4X-Large	**19-166-233**	46.50
5X-Large	**19-166-234**	46.50

Fisherbrand® Women's Poly/Cotton Lab Coats

Generously sized for comfort with a belted back

- Made of 80/20 polycotton, 5 oz. performance-blend fabric
- One-piece, lined, notched lapel collar
- Button-front closures
- Adjustable belted back with princess seams
- Two outside lower pockets with one left breast pocket
- No side vents
- White

19-166-282

Size	Cat. No.	Each
X-Small	**19-168-327**	48.42
Small	**19-166-280**	48.42
Medium	**19-166-281**	48.42
Large	**19-166-282**	48.42
X-Large	**19-166-283**	48.42
2X-Large	**19-166-284**	58.11
3X-Large	**19-166-285**	58.11
4X-Large	**19-166-286**	58.11

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Coveralls

AlphaProTech™ Critical Cover™ ChemTech™ Coveralls

Designed with a safety barrier on the inside for an added measure of protection

- Chemical barrier properties
- Liquid and particle holdout
- Protective flap over zipper
- Elastic wrists
- Attached boots
- Bound seams for additional protection

19-169-5032

Sizing Chart				
Size	*Body*	*Chest*	*Sleeve*	*Leg*
Medium	37.5 in.	24.25 in.	34 in.	28.5 in.
Large	38.75 in.	25 in.	34 in.	29.5 in.
2X-Large	40.5 in.	29.75 in.	37 in.	31 in.
4X-Large	43 in.	32.5 in.	41 in.	32.5 in.

Size	Mfr. No.	Cat. No.	Case of 25
Medium	CVB-K4212-2	**19-169-5032**	518.00
Large	CVB-K4212-3	**19-169-5033**	518.00
2X-Large	CVB-K4212-5	**19-169-5035**	563.50
4X-Large	CVB-K4212-7	**19-169-5037**	689.00

Aprons, Sleeves and Gowns

PIP™ Reusable Pot Sink Aprons

Suitable for food handling and preparation, general maintenance and chemical processing

- 8 mil PVC/vinyl apron with neck ties
- Comfortable to wear with superior flexibility
- Excellent resistance to punctures and abrasion, chemicals, fats, oils and grease
- Individually packaged
- White

19-810-608

COMPLIANCE:
Component materials that comply with Federal Regulations for food contact 21CFR, 170-199

Size	Mfr. No.	Cat. No.	Pack of 12
35 × 36" (91.4 × 91.4cm)	200-08001	**19-810-608**	31.85
35 × 45" (89 × 114.3cm)	200-07501	**19-810-607**	44.45

PIP™ Neoprene Apron

Ideal for chemical plants, plating facilities and general maintenance

- Lightweight black neoprene apron with tie strings
- Provides superior protection from a wide range of chemicals including acids, caustics, solvents and oils
- Rustproof grommets
- Reinforced bib
- Thickness: 18-20 mil
- Hemmed over edge

19-810-609

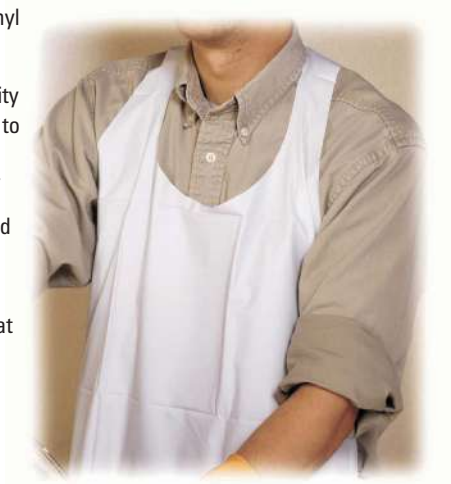
Size	Mfr. No.	Cat. No.	Case of 12
33 × 45" (83.8 × 114.3cm)	200-12501	**19-810-609**	394.00

PIP™ Heavy-Duty Vinyl Apron

Suitable for food handling and preparation, general maintenance and chemical processing

- Heavy-duty 20 mil vinyl apron with neck ties
- Comfortable to wear with superior flexibility
- Excellent resistance to punctures and abrasion, chemicals, fats, oils and grease
- Individually packaged
- White

COMPLIANCE:
Component materials that comply with Federal Regulations for food contact 21CFR, 170-199



19-810-610

Size	Mfr. No.	Cat. No.	Case of 12
35 × 45" (89 × 114.3cm)	200-20001	**19-810-610**	163.30

ON THE WEB...

Looking for more Aprons?

Visit www.fishersci.com and search for PIP Aprons

Bags

Fisherbrand® Polyethylene Biohazard Autoclave Bags

01-82 Series printed bags

- Maximum temperature, 127°C (260°F); for use at 121°C (250°F)
- All bags supplied with autoclavable elastic steam-venting closures except 1.5mil-thick plain clear bags

W × L	Thickness (mil)	Cat. No.	Pack of
Printed Red Polyethylene Bags			
8 × 12" (20 × 30cm)	1.5	**01-829A**	200/123.27
14 × 19" (36 × 48cm)	1.5	**01-829B**	200/301.83
19 × 23" (48 × 58cm)	1.5	**01-829C**	200/424.52
24 × 36" (61 × 91cm)	4.0	**01-831A**	100/319.04
25 × 35" (64 × 89cm)	1.5	**01-829D**	200/591.10
33 × 30" (84 × 76cm)	1.5	**01-829F**	200/472.31
38 × 48" (97 × 122cm)	1.5	**01-829E**	100/341.87
38 × 48" (97 × 122cm)	4.0	**01-831B**	50/360.50
Printed Clear Polyethylene Bags			
8 × 12" (20 × 30cm)	1.5	**01-827A**	200/122.39
12 × 24" (30 × 61cm)	1.5	**01-827B**	200/132.07
24 × 30" (61 × 76cm)	1.5	**01-827C**	200/373.18
24 × 36" (61 × 91cm)	1.5	**01-827D**	200/409.72
Plain Clear Polyethylene Bags			
12 × 24" (30 × 61cm)	1.5	**01-814-1**†	200/108.38
24 × 30" (61 × 76cm)	1.5	**01-814-2**†	200/278.07
24 × 36" (61 × 91cm)	1.5	**01-814-3**†	200/342.69
24 × 36" (61 × 91cm)	4.0	**01-832A**	100/301.12

†*Without closures*

Fisherbrand® Polypropylene Biohazard Autoclave Bags

Available printed or plain

- Maximum temperature, 140°C (285°F); for use at 134°C (274°F)
- 2mil thick
- Supplied with autoclavable elastic steam-venting closures

COMPLIANCE:
Graphics on printed styles conform to OSHA™ standard 29CFR1910.1030.

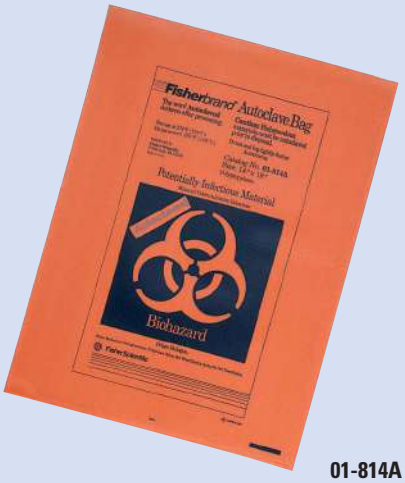
W × L	Cat. No.	Pack of
Printed Red Polypropylene Bags		
8 × 12" (20 × 30cm)	**01-828A**	200/123.05
14 × 19" (36 × 48cm)	**01-828B**	200/201.01
19 × 23" (48 × 58cm)	**01-828C**	200/279.31
25 × 35" (64 × 89cm)	**01828D**	200/438.49
37 × 48" (94 × 122cm)	**01-828E**	100/435.50
Plain Red Polypropylene Bags		
8 × 12" (20 × 30cm)	**01-830A**	200/102.35
14 × 19" (36 × 48cm)	**01-830B**	200/186.21
19 × 23" (48 × 58cm)	**01-830C**	200/245.94
25 × 35" (64 × 89cm)	**01-830D**	200/374.21
37 × 48" (94 × 122cm)	**01-830E**	100/318.60
Printed Clear Polypropylene Bags		
12 × 24" (30 × 61cm)	**01-826A**	200/209.86
24 × 30" (61 × 76cm)	**01-826B**	200/389.81
24 × 36" (61 × 91cm)	**01-826C**	200/456.63
31 × 38" (79 × 97cm)	**01-826D**	200/619.97
37 × 48" (94 × 122cm)	**01-826E**	100/452.62
Plain Clear Polypropylene Bags		
8 × 12" (20 × 30cm)	**01-826-1**	200/96.85
10 × 15" (25 × 38cm)	**01-826-4**	200/113.18
12 × 24" (30 × 61cm)	**01-826-5**	200/164.08
24 × 30" (61 × 76cm)	**01-826-6**	200/379.59
24 × 36" (61 × 91cm)	**01-826-7**	200/405.73

LOOKING FOR MORE?
See Fisherbrand Sharps-A-Gator containers in the Waste Diposal section

LOOKING FOR AUTOCLAVE TAPE?
Visit www.fishersci.com and search for Autoclave Tape

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

Fisherbrand® Orange Autoclave Bags With Sterilization Indicator



01-814A

With sterilization indicator printed in English and Spanish

- Maximum temperature of 140°C (285°F); use at 125°C (257°F)
- Printed in English and Spanish
- Come with wire-tie closures

COMPLIANCE:
Pass ASTM™ impact- and tear-resistance tests.

W × L	Cat. No.	Pack of
19 × 14" (48 × 366cm)	**01-814A**	200/172.43
19 × 23" (48 × 58cm)	**01-814B**	200/273.34
25 × 35" (64 × 89cm)	**01-814C**	200/419.29
38 × 47" (97 × 119cm)	**01-814D**	100/520.10
8.5 × 11" (21.5 × 28cm)	**01-815-1**	100/30.69

Fisherbrand® Orange Autoclave Bags without Sterilization Indicator

Printed orange high-density polyethylene bags

- Maximum temperature, 127°C (260°F); use at 121°C (250°F)
- Printed in English
- Bags not supplied with wire-tie closures

COMPLIANCE:
Pass ASTM™ impact- and tear-resistance tests.

01-815 Series

W × L	Cat. No.	Case of 100
12 × 24" (30 × 61cm)	**01-815A**	69.01
24 × 30" (61 × 76cm)	**01-815B**	168.53
24 × 36" (61 × 91cm)	**01-815C**	232.50

Fisherbrand® Instant Sealing Sterilization Pouches

No tape or heat sealing needed

01-812-50 Series

Integral sealing strip eliminates the need to tape or heat seal pouches. Simply peel off protective strip, fold along perforation and press firmly to seal pouch.

- Triple heat-processed seams provide excellent tear and puncture resistance
- Suitable for steam or EtO gas sterilization
- Indicator arrows change color when sterilization cycle is complete
- Made of paper/plastic; medical-grade paper side guards against puncture
- 2mil-thick blue transparent polyester/polypropylene laminate film side allows contents to be identified quickly and shows any compromise in the film
- Corner tack seals prevent contamination in the seal area
- Thumb notch makes opening pouch easy

W × L	Cat. No.	Pack of	Case of
3.5 × 5.25" (9 × 13.3cm)	**01-812-50**	200/48.26	10 Pk./408.40
3.5 × 9" (9 × 23cm)	**01-812-51**	200/71.89	20 Pk./1259.69
5.25 × 10" (13.3 × 25cm)	**01-812-54**	200/87.76	10 Pk./767.87
7.5 × 13" (19 × 33cm)	**01-812-55**	200/151.51	5 Pk./640.66
10 × 15" (25 × 38cm)	**01-812-57**	100/162.53	5 Pk./687.53
12 × 18" (30 × 46cm)	**01-812-58**	100/169.13	5 Pk./715.34

Looking for an autoclavable and disposable biohazard container?

Please refer to the Waste Disposal section.

Ampac™ Flexibles SealPAK Pouches

Ideal for histology and pathology specimens and for safe biological waste disposal in medical, institutional and industrial facilities

- Transparent pouches with polyethylene lining
- Can withstand infrared and gamma rays
- May be frozen, microwaved or boiled without harm
- Easily resealable
- Use 400 SealPAK (2.5mil) to store and dispense of medicines and dispose of wastes
- Use 500 SealPAK (4.5mil) pouches for long-term storage and mailing of specimens and equipment
- Use with Ampac Flexibles pouch sealer (Cat. Nos. 01-812-15 or 01-812-15B) and handy pouch cutter (01-812-21)

ORDERING INFORMATION:
Also available in heat-sealable tubular roll stock that allows you to create custom-size pouches.

01-812 Series Pouches

Capacity	Dimensions (W × L)	Mfr. No.	Cat. No.	Pack of	Case of
Regular Pouches (2.5mil)					
4 oz. (118mL)	4 × 6" (10.2 × 15.2cm)	400-24	**01-812-25A**	100/91.60	24 Pk./1856.00
16 oz. (473mL)	6.5 × 8" (16.5 × 20.3cm)	402-24	**01-812-16**	75/90.70	24 Pk./1844.00
24 oz. (710mL)	8 × 9.5" (20.3 × 24.1cm)	403-24	**01-812-25AA**	50/92.00	24 Pk./1989.00
32 oz. (946mL)	8 × 12" (20.3 × 30.5cm)	404-24	**01-812-17**	40/90.70	24 Pk./1959.00
Heavy-Duty Pouches (4.5mil)					
4 oz. (118mL)	4 × 6" (10.2 × 15.2cm)	500-24	**01-812-25D**	100/142.90	24 Pk./2970.00
16 oz. (473mL)	6.5 × 8" (16.5 × 20.3cm)	502-24	**01-812-25E**	75/143.60	24 Pk./3000.00
32 oz. (946mL)	8 × 9.5" (20.3 × 24.1cm)	503-24	**01-812-25EE**	50/143.60	24 Pk./2940.00
48 oz. (1420mL)	8 × 12" (20.3 × 30.5cm)	504-24	**01-812-25H**	40/143.60	24 Pk./2920.00
64 oz. (1893mL)	8 × 12" (20.3 × 30.5cm)	504B-1M	**01-812-27**	----	1000/1228.00
96 oz. (2839mL)	10 × 12" (25.4 × 30.5cm)	505-24	**01-812-25FF**	30/139.60	24 Pk./2990.00
64 oz. (1893mL)	9.5 × 16" (24.1 × 40.6cm)	506-24	**01-812-25F**	20/143.60	24 Pk./3020.00
96 oz. (2839mL)	12 × 16" (30.5 × 40.6cm)	508-24	**01-812-25G**	15/143.60	24 Pk./2990.00

Ampac™ Flexibles Heat-Sealable Roll Stock Pouches

Create custom-size pouches

- Ideal for histology and pathology specimens and for safe biological waste disposal in medical, institutional and industrial facilities
- Polyester with polyethylene lining; does not react with formaldehyde, weak solutions of acids, alkalis or organic solvents
- Withstand infrared and gamma rays
- Can be frozen or boiled
- Can be cut to desired length and sealed at both ends

INCLUDES:
Pouch cutter (01-812-21) supplied with every roll except 01-812-26A.

COMPLIANCE:
Use no adhesives or bonding agents.

Heat-Sealable Roll Stock Pouches

W × L	Cat. No.	Each
Regular Roll Stock (2.5mil thick)		
9.5" × 250' (24cm × 76m)	**0181226E**	677.50
24" × 250' (61cm × 76m)	**01-812-26C**	1167.00
Heavy-Duty Roll Stock (4.5mil thick)		
9.5" × 125' (24cm × 38m)	**0181226D**	661.00

ON THE WEB...

Looking for more pouches?

Visit www.fishersci.com and search for Ampac pouches

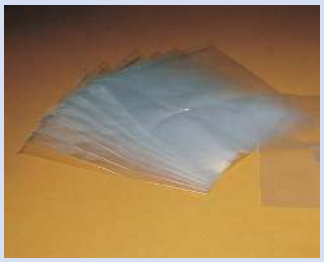
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Polyethylene Bags

Flexible even when frozen

- Ideal for short-term storage
- May be tied or heat-sealed
- Not suggested for use with liquids
- Thickness; 4mil



19-075-388 Series

W × L	Cat. No.	Pack of 100	Case of 10 Packs
4 × 6" (10.2 × 15.3cm)	**19-075-388G**	19.65	167.94
6 × 10" (15.2 × 25.4cm)	**19-075-388B**	32.81	280.39
8 × 12" (20.3 × 30.5cm)	**19-075-388A**	34.34	293.37
10 × 12" (25.4 × 30.5cm)	**19-075-388J**	46.34	396.06
10 × 16" (25.4 × 40.6cm)	**19-075-388C**	47.99	410.13
12 × 18" (30.5 × 45.7cm)	**19-075-388H**	65.08	556.35
12 × 20" (30.5 × 50.8cm)	**19-075-388K**	69.36	592.90

Fisherbrand® Bags with Round-Wire Closure

Secure, contaminant-free, pliant container ensures dependable analysis results

14-955 Series

Capacity	W × L	Style	Cat. No.	Pack of	Case of
2.5mil thick					
2 oz. (60mL)	3 × 5" (7.6 × 12.7cm)	Printed	**14-955-182**	500/100.20	2 Pk./172.50
4 oz. (120mL)	3 × 7" (7.6 × 17.8cm)	Clear	**14-955-176**	500/104.20	2 Pk./171.10
4 oz. (120mL)	3 × 7" (7.6 × 17.8cm)	Printed	**14-955-183**	500/111.60	2 Pk./187.00
3.0mil thick					
18 oz. (530mL)	4.5 × 9" (11.4 × 22.9cm)	Clear	**14-955-177**	500/146.10	2 Pk./244.00
18 oz. (530mL)	4.5 × 9" (11.4 × 22.9cm)	Printed	**14-955-184**	500/153.40	2 Pk./265.50
3.5mil thick					
24 oz. (710mL)	5.5 × 9" (14 × 22.9cm)	Clear	**14-955-180**	500/183.70	2 Pk./307.50
24 oz. (710mL)	5.5 × 9" (14 × 22.9cm)	Printed	**14-955-185**	500/190.50	2 Pk./346.00

Fisherbrand® Institutional Trash Can Liners

Provide a leak resistant containment solution for non-medical waste disposal

- For collecting and containing refuse
- Available in both linear low density (LLDPE) and high density (HDPE) polyethylene film
- Sold in flat packs for easy dispensing
- Provide a cost-effective solution for every application

ALERTS:
Not for use with biohazardous waste.

14-828-400 to -421

Capacity	Thickness	Color	Cat. No.	Pack of
LLDPE				
7-10 gal.	.35mil	Clear	**14-828-400**	1000/49.20
12-16 gal.	.35mil	Clear	**14-828-401**	1000/62.00
20-30 gal.	.65mil	Clear	**14-828-402**	500/49.20
20-30 gal.	.65mil	Brown	**14-828-403**	500/47.20
32-33 gal.	.65mil	Clear	**14-828-404**	250/41.15
32-33 gal.	.65mil	Brown	**14-828-405**	250/43.05
32-33 gal.	1.15mil	Clear	**14-828-406**	100/35.10
40-45 gal.	0.8mil	Clear	**14-828-407**	250/62.10
40-45 gal.	1.15mil	Clear	**14-828-408**	100/40.15
56 gal.	1.5mil	Clear	**14-828-410**	100/61.80
56 gal.	1.5mil	Brown	**14-828-411**	100/61.10
60 gal.	0.8mil	Clear	**14-828-409**	200/72.50
HDPE				
7-10 gal.	6mic	Clear	**14-828-412**	2000/108.70
12-16 gal.	8mic	Clear	**14-828-413**	1000/83.60
20-30 gal.	10mic	Clear	**14-828-414**	500/69.90
33 gal.	11mic	Clear	**14-828-416**	500/86.90
33 gal.	16mic	Clear	**14-828-417**	250/60.10
40-45 gal.	12mic	Clear	**14-828-418**	250/64.00
40-45 gal.	16mic	Clear	**14-828-419**	250/78.90
56 gal.	12mic	Clear	**14-828-421**	200/53.90
60 gal.	16mic	Clear	**14-828-420**	200/66.90

Fisherbrand® Biohazard Specimen Bags

Access pocket without opening sealed pouch

- Two-pouch bags constructed of polyethylene
- 2mil-thick zipper-seal pouch holds specimen container
- Separate 1.5mil-thick pocket for papers
- Each bag printed with biohazard graphics in orange and blue

19-075-388F

W × L	Cat. No.	Case of
5 × 9" (13 × 23cm)	**19-075-388D**	1000/266.12
6 × 10" (15 × 25cm)	**19-075-388E**	1000/233.84
10 × 10" (25 × 25cm)	**19-075-388F**	1000/293.50

Fisherbrand® Biohazard Specimen Transport Bags

For light-duty use

01-800 Series

- Clear polyethylene with three-wall construction and large printed biohazard graphic
- Reclosable zipper seal
- Cat. Nos. 01-800-02, 01-800-05 and 01-800-06 feature attached document compartment with flap cover that keeps paperwork in place
- Cat. Nos. 01-800-00, 01-800-01, 01-800-03, 01-800-04, 01-800-07, 01-800-08 and 01-800-09 feature attached document compartment without flap cover
- Cat. No. 01-800-05 features a pouch and a 3 × 5" (7.6 × 5.1cm) pad impregnated with superabsorbent polymers; pad will absorb 180cc of water, 60cc of urine or 38cc of blood
- Cat. No. 01-800-06 features a scoreline for safe and easy entry without cutting

COMPLIANCE:
Meet OSHA and NCCLS guidelines.

W × L	Cat. No.	Case of
Printed; without document compartment flap		
4 × 6" (10.2 × 15.2cm)	**01-800-00**	1000/168.71
6 × 9" (15.2 × 23cm)	**01-800-04**†	1000/200.24
8 × 8" (20 × 20cm)	**01-800-07**	1000/227.52
8 × 10" (20 × 25cm)	**01-800-08**	1000/324.61
12 × 15" (30 × 38cm)	**01-800-09**	1000/286.58
Printed; with document compartment flap		
6 × 9" (15.2 × 23cm)	**01-800-03**	1000/303.48
6 × 9" (15.2 × 23cm)	**01-800-05**‡	500/70.60
6 × 9" (15.2 × 23cm)	**01-800-06**††	1000/210.01
Plain		
6 × 9" (15.2 × 23cm)	**01-800-02**	1000/189.84

† With requisition pouch and red STAT labeling.
‡ With 3 × 5" pad for absorbing water, urine or blood.
†† With scoreline.

LOOKING FOR MORE Fisherbrand Scoops, Spoons and Spatulas?
Refer to the Spatulas Section of the Catalog.

Fisherbrand® "Zipper" Seal Sample Bags

Zipper-locking feature securely seals bags

- Durable, transparent polyethylene
- Ideal for collecting, storing and protecting laboratory specimens and samples easily and conveniently
- Clear, print-free surface lets user mark and label each bag separately

01-816 Series

NOTES:
Not suggested for use with liquids

W × L	Cat. No.	Pack of	Case of
2mil thick			
2 × 3" (5 × 7cm)	**01-816-1A**	----	1000/33.53
3 × 5" (7 × 13cm)	**01-816-1B**	----	1000/38.67
4 × 6" (10 × 15cm)	**01-816-1C**	----	1000/47.50
5 × 8" (13 × 20cm)	**01-816-1D**	----	1000/85.27
9 × 12" (23 × 30cm)	**01-816-1E**	----	1000/202.80
4mil thick			
4 × 6" (10 × 15cm)	**01-816A**	50/44.09	10 Pk./370.50
5 × 8" (13 × 20cm)	**01-816D**	50/34.34	10 Pk./291.01
6 × 13" (15 × 33cm)	**01-816B**	50/77.88	5 Pk./332.50
9 × 13" (23 × 33cm)	**01-816E**	50/51.81	5 Pk./217.69
9 × 18" (23 × 46cm)	**01-816C**	50/111.91	5 Pk./490.84

Fisherbrand® Heavy-Paper Lined Sample Bags

Ideal for collection, shipment or storage of grain, seed, soil, or food samples

- Heavy-paper bags lined with 1mil-thick polyethylene
- Heat sealed at bottom to prevent seepage
- Tin-tie closure ensures moisture retention

01-818-10

ORDERING INFORMATION:
Maximum gusset width on side of bag is 2.5" (6.4cm) for 01-818-10; 3" (7.6cm) for 01-818-11.

W × D × L	Cat. No.	Case of
3.37 × 2.5 × 9.62" (8.6 × 6.4 × 24cm)	**01-818-10**	1000/502.50
5 × 3 × 9" (13 × 7.6 × 23cm)	**01-818-11**	500/364.00

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

Balances

Micro

METTLER TOLEDO™ Excellence Plus XP Microbalances

Hands-free operation and unmatched weighing performance

Microbalances offer high speed, high performance and security features for measurements, users and data.

SmartGrid™ Weighing Pan

- Minimizes effects of turbulence in the weighing chamber
- Ensures more accurate results and shorter stabilization times
- Smallest sample sizes can be weighed-in according to regulations
- Increases the yield of expensive substances

SmartSens™ Sensors

- For hands-free operation and personnel security
- Enable user to tare, open and close draft shield or print without touching the balance
- Promote safe handling of samples, prevention of spills, minimized contamination risk

Standard Features

- Prepared for weighing below the balance
- User administration and password protection
- Target weighing
- Statistical evaluation
- Formulation with security check
- Density determination
- Percent weighing
- Piece counting with reference optimization
- Alphanumeric data entry of four IDs

01-910 Series

INCLUDES:
Automatic and detachable draft shield, automatic inner draft shield, ProFACT automatic calibration technology, RS-232-C interface, option slot for second interface (choice of seven different interfaces), protective cover, detachable and adjustable terminal.

WARRANTY:
One year extendable to three years with return of warranty card.

Model	Tare Range	Readability	Mfr. No.	Cat. No.	Each
XP6	0-6.1g	1µg	11122415	**01-910-015**	26,118.00
XP2U	0-2.1g	0.1µg	11122430	**01-910-014**	32,758.00
XP26	0-22g	1µg	11106048	**01-910-670**	26,296.00
XP26DR	0-22g	2µg/0.01mg	11106051	**01-910-671**	22,439.00
XP56	0-52g	1µg	11106054	**01-910-650**	31,161.00
XP56DR	0-52g	2µg/0.01mg	11106057	**01-910-651**	28,565.00

METTLER TOLEDO™ Excellence XS Microbalance

Dual-range microbalance with the highest reproducibility: <0.8µg for the fine range

Reduce the number of test repetitions and minimize sample waste.

- Two ranges: 0 to 0.8g and 0 to 3.1g
- Weighing cell features overload protection
- Glass draft shield with manual door opening
- SmartTrac function, a graphic weighing-in aid, tracks capacity and weighing tolerances
- Monochrome display with programmable touchscreen
- Up to 11 shortcut keys for special functions
- Multiple connectivity options: Ethernet, Bluetooth™, and PS/2™

01-910-016

INCLUDES:
RS-232-C interface, plus two auxiliary interfaces for connecting a keyboard or additional IR sensor for hands-free operation; slot provided for second optional interface. Also includes draft shield, protective cover, detachable and adjustable terminal and FACT automatic calibration technology.

WARRANTY: One year

Description	Cat. No.	Price
XS3DU Microbalance	**01-910-016**	20,227.00

Specifications	
Capacity	3.1g (Maximum capacity) 0.8g (Maximum capacity fine range)
Eccentric load deviation (test load)	0.005mg (2g)
Linearity	0.004mg
Readability	0.01mg 0.001mg (Readability fine range)
Repeatability	0.006mg std. range nominal load 0.005mg (0.2g) std. range low load (measured at) 0.001mg fine range nominal load 0.0008mg (0.2g) fine range low load (measured at)

METTLER TOLEDO™ NewClassic MS Semi-Micro Balances

Precise results, efficient handling and space saving

An intuitive user interface with intelligent menu guidance makes operating the balance a breeze.

- HRT (HiRes Technology) includes two built-in weights for constant accuracy over the entire weighing range
- Clever ErgoDoor draft shield saves time; right door can be opened from the left side and vice versa
- Need 30% less operational space as split draft shield doors do not project beyond the balances
- Fully automatic time- and temperature-controlled internal adjustment
- Easy running of balance diagnostics tests (e.g., keypad test, repeatability test)
- Protective cover encloses entire housing, protecting balances from stains and scratches

01-911-370

Model	MS105	MS105DU	MS205DU
Capacity	120g	120g	220g
Max. Capacity (fine range)	—	42g	82g
Readability	0.01mg	0.1mg	0.1mg
Readability, fine range	—	—	0.01mg
Repeatability	0.04mg	0.08mg	0.08mg
Repeatability (sd), fine range	—	0.03mg	0.05mg
Repeatability at low load (20g)	0.02mg	—	—
Linearity	0.1mg	0.15mg	0.2mg
Stabilization Time	8 sec.	4 sec.	4 sec.
Minimum Weight (acc. to USP)	45mg	45mg	45mg
Minimum Weight (acc. to 1%, k=2)	3mg	3mg	3mg
Mfr. No.	11142056	11142068	11142062
Cat. No.	**01-911-370**	**01-911-371**	**01-911-372**
Each	6907.00	5082.00	6270.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sartorius™ Cubis™ MSA Semi-Micro Balances

With full resolution (readability 10µg) up to 220g

MSA Semi-Micro Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

- Offers the highest level of safety by providing uncompromising reliability of weighing results and conformity to standards
- Short measurement times result in time gained — for every single measurement
- Comes standard with Q-Level, the automatic motorized leveling function — provides valuable support to always have a leveled balance
- Features isoCAL, a fully automatic calibration/adjustment function
- Q-Pan: Automatically minimizes off-center loading errors to maximize weighing accuracy
- Interfaces, such as: Bluetooth™ (wireless), 9-pin RS232C with PS2 port (for the connection of a keyboard or barcode scanner) or an additional 25-pin RS232C port are optionally available
- Draft shield and weigh pan can be quickly and easily disassembled and cleaned without compromising stability
- Protected against dust and water
- Offers a wide selection of accessories for extended options
- Pan size: 85 × 85mm
- Fully personalized application add-ons and upgrades enable faster and more efficient work and enhance process reliability (Q-Apps)

14-557-240

MSA Display and Control Unit

- Top-of-the-line technology with outstanding operating convenience and display quality, especially for complex applications
- Tiltable and removable touchscreen featuring a high-resolution color TFT for brilliant reproduction of text and graphics
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions

Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5° to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Description	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Typical Stabilization Time (≤)	Min. Initial Weight†	Mfr. No.	Cat. No.	Each
Draft Shield with Automatic Doors and Integrated Ionizer (DI) / Automatic Motorized Leveling									
225S	220g	0.01mg	0-60g: 0.015mg, 60-220g: 0.025mg	0.1mg	2s	0.02g	MSA225S100DI	**14-557-010**	15,000.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg, 60-220g: 0.04mg	0.15mg	2s	0.02g	MSA225P100DI	**14-557-012**	13,500.00
Draft Shield with Automatic Doors (DA) / Automatic Motorized Leveling									
125P	60g/120g	0.01/0.1mg	0-60g: 0.015mg, 60-220g: 0.06mg	0.15mg	2s	0.02g	MSA125P-100-DA	**14-557-240**	10,000.00
225S	220g	0.01mg	0-60g: 0.015mg, 60-220g: 0.025mg	0.1mg	2s	0.02g	MSA225S-100-DA	**14-557-238**	14,000.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg, 60-220g: 0.04mg	0.15mg	2s	0.02g	MSA225P-100-DA	**14-557-239**	12,500.00
Draft Shield with Manual Doors (DU) / Automatic Motorized Leveling									
125P	60g/120g	0.01/0.1mg	0-60g: 0.015mg, 60-220g: 0.06mg	0.15mg	2s	0.02g	MSA125P-100-DU	**14-557-249**	8000.00
225S	220g	0.01mg	0-60g: 0.015mg, 60-220g: 0.025mg	0.1mg	2s	0.02g	MSA225S100DU	**14-557-019**	12,000.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg, 60-220g: 0.04mg	0.15mg	2s	0.02g	MSA225P-100-DU	**14-557-248**	10,500.00

† According to United States Pharmacopeia Chapter 41.

Sartorius™ Cubis™ MSE Semi-Micro Balances

Offers the optimal basis for users who need to weigh with the highest accuracy, but have lower needs in terms of complexity of a weighing process and data management

14-557-340

MSE Semi-Micro Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

MSE Display and Control Unit

- Large, high-contrast LCD with clearly structured keys for precise activation of functions
- Easy-to-understand menu guidance with short text prompts
- Comes standard with built-in USB and 25-pin RS-232C communication interfaces
- Perfect for users who need to weigh with the highest accuracy, but who have less complex application/communication requirements

Description	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
Draft Shield with Automatic Doors									
125P	60g/120g	0.01/0.1mg	0-60g: 0.015mg/60-220g: 0.06mg	0.15mg	2s	0.02g	MSE125P-100-DA	**14-557-340**	8500.00
225S	220g	0.01mg	0-60g: 0.015mg/60-220g: 0.025mg	0.1mg	2s	0.02g	MSE225S-100-DA	**14-557-338**	12,500.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg/60-220g: 0.04mg	0.15mg	2s	0.02g	MSE225P-100-DA	**14-557-339**	11,000.00
Draft Shield with Manual Doors									
125P	60g/120g	0.01/0.1mg	0-60g: 0.015mg/ 60-220g: 0.06mg	0.15mg	2s	0.02g	MSE125P-100-DU	**14-557-349**	6500.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg/ 60-220g: 0.04mg	0.15mg	2s	0.02g	MSE225P-100-DU	**14-557-348**	9000.00
225S	220g	0.01mg	0-60g: 0.015mg/ 60-220g: 0.025mg	0.1mg	2s	0.02g	MSE225S-100-DU	**14-557-347**	10,500.00

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Cubis™ MSU Semi-Micro Balances

For users who prefer to combine classic key-operated control with the widest range of performance features

14-557-290

MSU Semi-Micro Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

MSU Display and Control Unit

- Tiltable and removable large, high-resolution monochrome graphic display
- Key operation; positive click action and precise activation of functions
- Combines classic key-operated control with a wide range of performance features
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions

Model No.	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Initial Weight	Mfr. No.	Cat. No.	Each
Automatic Draft Shield Door									
225S	220g	0.01mg	0-60g: 0.015mg/ 60-220g: 0.025mg	0.1mg	2s	0.02g	MSU225S-100-DA	**14-557-288**	13,500.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg/ 60-220g: 0.04mg	0.15mg	2s	0.02g	MSU225P-100-DA	**14-557-289**	12,000.00
125P	60g/120g	0.01/0.1mg	0-60g: 0.015mg/ 60-220g: 0.06mg	0.15mg	2s	0.02g	MSU125P-100-DA	**14-557-290**	9500.00
Manual Draft Shield Door									
125P	60g/120g	0.01/0.1mg	0-60g: 0.015mg/ 60-220g: 0.06mg	0.15mg	2s	0.02g	MSU125P-100-DU	**14-557-299**	7500.00
225P	60g/120g/220g	0.01/0.02/0.05mg	0-60g: 0.015mg/ 60-220g: 0.04mg	0.15mg	2s	0.02g	MSU225P-100-DU	**14-557-298**	10000.00
225S	220g	0.01mg	0-60g: 0.015mg/ 60-220g: 0.025mg	0.1mg	2s	0.02g	MSU225S-100-DU	**14-557-297**	11,500.00

LabReporter
QUARTERLY MAGAZINE

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Sartorius™ Cubis™ Ultra Micro Balances, 2.7S Weighing Mode

Designed to weigh the smallest sample quantities and meet the highest requirements

High-precision balances designed to weigh the smallest sample quantities (less than 10mg) up to 2.1g to meet the minimum accuracy requirements of the U.S. Pharmacopeia as well as fulfill the most stringent requirements.

MSA Display and Control Unit

- Top-of-the-line technology with outstanding operating convenience and display quality, especially for complex applications
- Tiltable and removable touchscreen featuring a high-resolution color TFT for brilliant reproduction of text and graphics
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions
- Fully personalized application add-ons and upgrades enable faster and more efficient work and enhance process reliability (Q-Apps)

MSU Display and Control Unit

- Tiltable and removable large, high-resolution monochrome graphic display
- Key operation; positive click action and precise activation of functions
- Combines classic key-operated control with a wide range of performance features
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions

MSE Display and Control Unit

- Large, high-contrast LCD with clearly structured keys for precise activation of functions
- Easy-to-understand menu guidance with short text prompts
- Comes standard with built-in USB and 25-pin RS-232C communication interfaces
- Perfect for users who need to weigh with the highest accuracy, but who have less complex application/communication requirements

14-557-801

Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	**MSA2.7S-000-DM**	**MSU2.7S-000-DM**	**MSE2.7S-000-DM**	**MSA2.7S-000-DF**	**MSU2.7S-000-DF**	**MSE2.7S-000-DF**	**MSA2.7S-0TR-DM**
Capacity	2.1g	2.1g	2.1g	2.1g	2.1g	2.1g	2.1g
Min. Sample Weight †	1mg	1mg	1mg	--	--	--	1mg
Readability	0.0001mg	0.0001mg	0.0001mg	0.0001mg	0.0001mg	0.0001mg	0.0001mg
Repeatability	±0.00025mg	±0.00025mg	±0.00025mg	±0.00025mg	±0.00025mg	±0.00025mg	±0.00025mg
Linearity	±0.0009mg	±0.0009mg	±0.0009mg	±0.0009mg	±0.0009mg	±0.0009mg	±0.0009mg
Response Time	≤10s	≤10s	≤10s	≤10s	≤10s	≤10s	≤10s
Stabilization Time	≤7s	≤7s	≤7s	≤7s	≤7s	≤7s	≤7s
Pan Size (Dia.)	0.79" (2cm)	0.79" (2cm)	0.79" (2cm)	2" (5cm)	2" (5cm)	2" (5cm)	0.79" (2cm)
Electrical Reqts.	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A
Mfr. No.	MSA2.7S-000-DM	MSU2.7S-000-DM	MSE2.7S-000-DM	MSA2.7S-000-DF	MSU2.7S-000-DF	MSE2.7S-000-DF	MSA2.7S0TRDM
Cat. No.	**14-557-801**	**14-557-805**	**14-557-806**	**14-557-807**	**14-557-808**	**14-557-809**	**14-557-804**
Each	31,150.00	30,650.00	29,650.00	31,950.00	31,450.00	30,450.00	31,270.00

† Typical min. initial weighing according to USP (United States Pharmacopeia), USP31-NF26.

Sartorius™ Cubis™ Micro Balances: 6.6S Weighing Module

Designed to weigh the smallest sample quantities and meet the highest requirements

High-precision balances designed to weigh the smallest sample quantities (less than 10mg) up to 6.1g to meet the minimum accuracy requirements of the U.S. Pharmacopeia as well as fulfill the most stringent requirements.

Cubis Micro Balance

Model	MSA6.6S-000-DM	MSU6.6S-000-DM	MSE6.6S-000-DM	MSA6.6S-000-DF	MSU6.6S-000-DF	MSE6.6S-000-DF	MSA6.6S-0TR-DM
Capacity	6.1g	6.1g	6.1g	6.1g	6.1g	6.1g	6.1g
Min. Sample Weight †	2mg	2mg	2mg	—	—	—	2mg
Readability	0.001mg	0.001mg	0.001mg	0.001mg	0.001mg	0.001mg	0.001mg
Repeatability	±0.001mg	±0.001mg	±0.001mg	±0.001mg	±0.001mg	±0.001mg	±0.001mg
Linearity	±0.004mg	±0.004mg	±0.004mg	±0.004mg	±0.004mg	±0.004mg	±0.004mg
Response Time	≤8s	≤8s	≤8s	≤8s	≤8s	≤8s	≤8s
Stabilization Time	≤5s	≤5s	≤5s	≤5s	≤5s	≤5s	≤5s
Pan Size (dia.)	1.18" (3cm)	1.18" (3cm)	1.18" (3cm)	2" (5cm)	2" (5cm)	2" (5cm)	1.18" (3cm)
Electrical Reqts.	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A
Mfr. No.	MSA6.6S-000-DM	MSU6.6S-000-DM	MSE6.6S-000-DM	MSA6.6S-000-DF	MSU6.6S-000-DF	MSE6.6S-000-DF	MSA6.6S0TRDM
Cat. No.	**14-557-810**	**14-557-812**	**14-557-813**	**14-557-814**	**14-557-815**	**14-557-816**	**14-557-811**
Each	24,700.00	24,200.00	23,200.00	25,500.00	25,100.00	24,110.00	24,820.00

†Typical min. initial weighing according to USP (Unites States Pharmacopeia), USP31-NF26.

Sartorius™ Cubis™ Micro Balances: 3.6P Weighing Module

Designed to weigh the smallest sample quantities and meet the highest requirements

High-precision balances designed to weigh the smallest sample quantities (less than 10mg) up to 6.1g to meet the minimum accuracy requirements of the U.S. Pharmacopeia as well as fulfill the most stringent requirements.

Cubis Micro Balance

Model	MSA3.6P-000-DM	MSA3.6P-0TR-DM	MSE3.6P-000-DM	MSU3.6P-000-DM
Capacity	1.1/2.1/3.1g	1.1/2.1/3.1g	1.1/2.1/3.1g	1.1/2.1/3.1g
Min. Sample Weight †	4mg	4mg	4mg	4mg
Readability	0.001/0.002/0.005mg	0.001/0.002/0.005mg	0.001/0.002/0.005mg	0.001/0.002/0.005mg
Repeatability	±0.003/0.004/0.005mg	±0.003/0.004/0.005mg	±0.003/0.004/0.005mg	±0.003/0.004/0.005mg
Linearity	±0.004mg	±0.004mg	±0.004mg	±0.004mg
Response Time	≤8s	≤8s	≤8s	≤8s
Stabilization Time	≤5s	≤5s	≤5s	≤5s
Pan Size (dia.)	1.18" (3cm)	1.18" (3cm)	1.18" (3cm)	1.18" (3cm)
Electrical Reqts.	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A	100-240V 50-60Hz, 1.0A
Mfr. No.	MSA3.6P-000-DM	MSA3.6P0TRDM	MSE3.6P-000-DM	MSU3.6P-000-DM
Cat. No.	**14-557-817**	**14-557-818**	**14-557-819**	**14-557-820**
Each	19,200.00	19,320.00	17,700.00	18,700.00

†Typical min. initial weighing according to USP (Unites States Pharmacopeia), USP31-NF26.

Before You Buy **Analytical Balances**

METTLER TOLEDO

Important Terms to Know

- **Readability** – The smallest displayed digit or weight on any balance
- **Accuracy** – A measure of the balance's ability to hit, or repeat, a result
- **Stabilization Time** – The time a balance requires to come to rest, from the moment a load is placed on the pan, to the moment the result is displayed
- **Repeatability** – The closeness of repeated results carried out in assumed identical conditions
- **Linearity** – A measure of how well the balance is capable of following the linear relationship between the loaded weight and the displayed value

From simple to sophisticated, METTLER TOLEDO's full line of balance solutions offers a variety of features to meet your needs.

Excellence XPE – Supports the highest requirements for safety, efficiency and ease of compliance

Excellence XSE – Exceptional weighing performance, quality assurance features and excellent ergonomics

Excellence XS – Durable and efficient for routine operations

NewClassic MS – Reliable and robust for simple weighing

NewClassic ML – For easy weighing

Features to Look For:

- **Support:** Unparalleled support from sales representatives, nationwide service organization and technical support.
- **StatusLight:** The StatusLight color indicates the status of the balance at a glance. Green means ready, yellow is a warning and errors are shown with red. The clearly visible light communicates if the balance is ready to start weighing task.
- **SmartGrid™:** Grid-style weighing pan found on the Excellence level analytical balances; pan minimizes the effects of air turbulence, thereby improving stabilization times.
- **StaticDetect:** Weighing error is measured when static charges are detected. If the user-defined limit is exceeded, a warning is given. For the highest process security, anti-static measures can be used to neutralize the charge and ensure the most accurate results.

MODEL SELECTION CHART						
For highest safety requirements, efficiency and ease of compliance	XPE204	XPE504	XPE105	XPE205	XPE205DR	
For exceptional weighing, quality assurance features and excellent ergonomics	XSE104	XSE204	XSE105DU	XSE205DU		
For efficient weighing in routine weighing applications	XS64	XS104	XS204	XS204DR	XS105DU	XS205DU
For simple weighing in a demanding environment	MS104S	MS204S	MS304S	MS105	MS105DU	MS205DU
For easy weighing tasks on a low budget	ML54	ML104	ML204			

For more information, please see METTLER TOLEDO offerings on pages 39–41.

Analytical

METTLER TOLEDO™ Excellence Plus XPE Analytical Balances

Worry-free weighing thanks to balance intelligence

XPE Analytical Balances provide the best performance in analytical weighing and support the highest requirements for safety, efficiency and ease of compliance. Thanks to low repeatability, XPE Analytical Balances offer the smallest minimum weight. Quality management features such as the innovative StatusLight™ and proprietary StaticDetect™ technology take the worry out of weighing and provide a high level of trust in your results. LevelControl and MinWeigh™ enable full regulatory compliance.

- StatusLight uses color to help you identify the status of your balance, so you know exactly when it is ready for use
- SmartGrid weighing pan minimizes effects of turbulence in weighing chamber and ensures more accurate results and shorter stabilization times
- StaticDetect technology detects electrostatic charge on sample and/or its container; weighing error is measured and warning given if user-defined limit is exceeded
- SmartSens sensors offer ergonomic, hands-free operation and personnel security enabling user to tare, open and close draft shield or print without touching balance
- SmartScreen™ display offers color-guided touchscreen for safe operation
- Individual, color-coded profiles can be configured and documented for up to eight users or jobs, protecting users, data and processes, and guaranteeing seamless traceability
- ErgoClips™ facilitate secure placement and efficient handling of tare containers
- LevelControl warns if balance is not correctly leveled
- MinWeigh signals when a sample has not reached minimum weight defined by regulations

Excellence Plus XPE Analytical Balance

Specifications	
Electrical Requirements	220V 50Hz
Dimensions (L × W × H)	21 × 15 × 17" (53.3 × 38.1 × 43.2cm)
Net Weight	25 lb. (11.3kg)
Settling Time	
XPE105, XPE204, XPE504	1.5 sec.
XPE205	2.5 sec.
XPE205DR	1.5 sec./2.5 sec.

Model	Max. Capacity	Readability	Tare Range	Repeatability (Nominal)	Linearity	Mfr. No.	Cat. No.	Each
XPE105	120g	0.01mg	0 to 120g	0.03mg (100g)	0.10mg	30087635	**01-911-000**	12,381.00
XPE205	220g	0.01mg	0 to 220g	0.03mg (200g)	0.10mg	30087653	**01-911-001**	15,050.00
XPE205DR	220g/81g	0.1mg/0.01mg	0 to 220g	0.06mg (200g)	0.15mg	30087700	**01-911-002**	13,337.00
XPE204	220g	0.1mg	0 to 220g	0.07mg (200g)	0.2mg	30087643	**01-911-003**	10,500.00
XPE504	520g	0.1mg	0 to 520g	0.12mg (500g)	0.4mg	30087770	**01-911-004**	12,400.00

METTLER TOLEDO™ Excellence XSE Analytical Balances

Worry-free weighing thanks to intuitive operation

Model	Max. Capacity	Readability	Tare Range	Repeatability (Nominal)	Linearity	Mfr. No.	Cat. No.	Each
XSE104	120g	0.1mg	0 to 220g	0.1mg (200g)	0.2mg	30087708	**01-911-007**	5300.00
XSE204	220g	0.1mg	0 to 220g	0.1mg (200g)	0.2mg	30087724	**01-911-008**	6200.00
XSE105DU	120g/41g	0.1mg/0.01mg	0 to 120g	0.1mg (100g)	0.2mg	30087716	**01-911-005**	6270.00
XSE205DU	220g/81g	0.1mg/0.01mg	0 to 120g	0.1mg (100g)	0.2mg	30087732	**01-911-006**	7750.00

Contd. on the next page.

METTLER TOLEDO™ NewClassic ME Analytical Balances

Efficient and convenient performance for daily weighing

Essential functionality plus ergonomic design.

- Designed to last, with solid metal base and reinforced body
- Overload protection up to 100kg
- Designed with state-of-the-art technology
- Readability and repeatability of 0.1mg
- Low temperature drift effect: 2.0ppm/°C
- Intuitive interface with clear readout: large numbers and backlit display
- 10 built-in applications
- Fast, two-second settling time
- Rounded edges and smooth surfaces for easy cleaning
- Front-feet leveling
- Compliance Documentation: Trace data with built-in data and time function

01-912-401

COMPLIANCE:
Meet ISO/GLP documentation requirements.

Specifications	
Model	ME Series
Pan Size	9.0cm
Readability	0.1mg
Repeatability	0.1mg
Linearity	0.2mg
Settling Time	2 sec.
Sensitivity (Temperature Drift)	2.0ppm/°C
Weight	4.5kg

Model	Max. Capacity	Mfr. No.	Cat. No.	Each
ME54E	52g	30029077	**01-912-400**	2124.00
ME104E	120g	30029076	**01-912-401**	2438.00
ME204E	220g	30029075	**01-912-402**	2688.00

METTLER TOLEDO™ NewClassic ML Analytical Balances with Draft Shield

The mobile all-rounder for easy operation and small budgets

NewClassic ML balances have everything a basic balance needs: an ergonomic design with a brilliant display, easy-to-clean glass draft shield, an intuitive user interface, multiple built-in applications, battery operation for full mobility and good weighing performance and robustness.

- MonoBloc: proven weighing technology for fast and accurate results
- Battery operation: full independence from power supply for 8 hours
- Adjustment at a keystroke with external weight and internal weight
- SmartTrac shows how much of the entire weighing range has been used
- Protection of main balance configurations against manipulation

01-910-222

Specifications	
Readability	0.1mg
Repeatability	0.1mg
Linearity	0.2mg
Display	Brilliant backlit display
Pan Size	3.54" dia. (90mm dia.)
Balance Dimensions (L × W × H)	11.4 × 7.5 × 13" (290 × 192 × 329mm)

Model	Capacity	Mfr. No.	Cat. No.	Each
ML54	52g	11145210	**01-910-221**	2632.00
ML104	120g	11145216	**01-910-222**	3129.00
ML204	220g	11145222	**01-910-223**	3521.00

ON THE WEB...

Looking for more METTLER TOLEDO Balances?

Visit www.fishersci.com and search for METTLER TOLEDO

METTLER TOLEDO™ NewClassic MS Analytical Balances with Draft Shield

Fast settling time and consistently reliable results

- High-grade, chemical-resistant, die-cast aluminum housing
- MonoBloc™ weighing technology for fast and accurate results
- Quick and comfortable dismantling of the draft shield (0.1mg and 1mg models only)
- LevelLock fixable rear support feet for additional safety (0.01g and 0.1g models only)
- Overload protection safeguards weighing cell against excess weight overload
- FACT fully automatic time- and temperature-controlled internal adjustment
- SmartTrac indicates how much of the entire weighing range has been used
- Protection of main balance configurations against manipulation
- RS-232 to connect to PC, printer or bar code reader; USB to connect to PC
- Easy running of balance diagnostics test (e.g., keypad test, repeatability test)
- Smart Key programmable keys for shortcut access to preferred applications
- IP 54 protection in use
- Protective cover encloses entire housing, protecting balances from stains and scratches

01-910-201

ORDERING INFORMATION: Usable height of draft shield: 0.933" (23.7cm).

NOTES: Stability of sensitivity as from first installation with FACT automatic adjustment switched on.

Specifications	
Readability	0.0001g
Repeatability (sd)	0.1mg
Sensitivity Temperature Drift (10 to 30°C)	1.5ppm/ °C
Weighing Pan Diameter	3" (9cm)
Balance Dimensions	14 × 8 × 14" (34.7 × 20.4 × 34.5cm)
Balance Weight	14 lb. (6.5kg)
Min. Sample Weight (acc. to USP/acc. to 1%, k=2)	0.3g/0.02g
Electrical Requirements	12V 50Hz/ 0.84 A

Maximum Capacity	Adjustment Range with External Weights	Linearity	Stabilization Time	Mfr. No.	Cat. No.	Each
120g	50 to 120g	0.2mg	2 sec.	11144914	**01-910-200**	3822.00
220g	100 to 220g	0.2mg	2 sec.	11144917	**01-910-201**	4636.00
320g	100 to 320g	0.3mg	3 sec.	11144920	**01-910-202**	5250.00

Sartorius™ Cubis™ MSA Analytical Balances

The ultimate solution

MSA Analytical Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined 2nd generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

- Offer the highest level of safety by providing uncompromising reliability of weighing results and conformity to standards
- Short measurement times result in time gained — for every single measurement
- Come standard with Q-Level, the automatic motorized leveling function — provides valuable support to always have a leveled balance
- Feature isoCAL, a fully automatic calibration/adjustment function
- Q-Pan: Automatically minimizes off-center loading errors to maximize weighing accuracy
- Interfaces, such as: Bluetooth™ (wireless), 9-pin RS232C with PS2 port (for the connection of a keyboard or barcode scanner) or an additional 25-pin RS232C port are optionally available
- Draft shield and weigh pan can be quickly and easily disassembled and cleaned without compromising stability
- Protected against dust and water
- Offers a wide selection of accessories for extended options
- Pan size: 85 × 85mm

MSA Display and Control Unit

- Top-of-the-line technology with outstanding operating convenience and display quality, especially for complex applications
- Tiltable and removable touchscreen featuring a high-resolution color TFT for brilliant reproduction of text and graphics
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions
- Fully personalized application add-ons and upgrades enable faster and more efficient work and enhance process reliability (Q-Apps)

14-557-245

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
Manual Draft Shield									
324P	80g/160g/320g	0.1/0.2/0.5mg	0.1/0.2/0.4mg	0.5mg	1s	0.12g	MSA324P-100-DU	**14-557-253**	7350.00
524P	120g/240g/520g	0.1/0.2/0.5mg	0.1/0.2/0.5mg	0.2mg	2s	20mg	MSA524P-100-DU	**14-557-251**	8000.00
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSA224S100DU	**14-557-021**	7400.00
324S	320g	0.1mg	0.1mg	0.3mg	1s	0.12g	MSA324S100DU	**14-557-022**	8100.00
524S	520g	0.1mg	0.2mg	0.2mg	2s	20mg	MSA524S-100-DU	**14-557-250**	9500.00
Automatic Motorized Draft Shield									
324P	80g/160g/320g	0.1/0.2/0.5mg	0.1/0.2/0.4mg	0.5mg	1s	0.12g	MSA324P-100-DA	**14-557-244**	9350.00
524P	120g/240g/520g	0.1/0.2/0.5mg	0.1/0.2/0.5mg	0.2mg	2s	20mg	MSA524P-100-DA	**14-557-242**	10000.00
124S	120g	0.1mg	0.1mg	0.2mg	1s	0.12g	MSA124S-100-DA	**14-557-245**	8350.00
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSA224S-100-DA	**14-557-246**	9400.00
324S	320g	0.1mg	0.1mg	0.3mg	1s	0.12g	MSA324S-100-DA	**14-557-243**	10,100.00
524S	520g	0.1mg	0.2mg	0.2mg	2s	20mg	MSA524S-100-DA	**14-557-241**	11,500.00
Automatic Motorized Draft Shield with Integrated Ionizer									
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSA224S100DI	**14-557-014**	10,400.00
324S	320g	0.1mg	0.1mg	0.3mg	1s	0.12g	MSA324S100DI	**14-557-016**	11,100.00
524S	520g	0.1mg	0.2mg	0.2mg	2s	20mg	MSA524S100DI	**14-557-018**	12,500.00

Sartorius™ Cubis™ MSA Precision Balances

Top-of-the-line technology and information design

MSA Precision Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

14-557-264

MSA Display and Control Unit

- Top-of-the-line technology with outstanding operating convenience and display quality, especially for complex applications
- Tiltable and removable touchscreen featuring a high-resolution color TFT for brilliant reproduction of text and graphics
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions
- Fully personalized application add-ons and upgrades enable faster and more efficient work and enhance process reliability (Q-Apps)

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5%
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Initial Weight †	Mfr. No.	Cat. No.	Each
Draft Shield with Manual Doors (DE) / Automatic Motorized Leveling									
323S	320g	0.001g	0.7mg	2mg	0.8s	1.5g	MSA323S-100-DE	**14-557-264**	5600.00
623P	150/300/620g	0.001/0.002/0.005g	1/2/4mg	5mg	0.8s	1.5g	MSA623P-100-DE	**14-557-263**	5600.00
1203S	1200g	0.001g	0.7mg	2mg	1s	1.5g	MSA1203S100DE	**14-557-024**	7500.00
2203S	2200g	0.001g	1mg	3mg	1s	1.5g	MSA2203S-100-DE	**14-557-259**	9500.00
2203P	1010/2200g	0.001/0.01g	1/6mg	5mg	1s	1.5g	MSA2203P-100-DE	**14-557-260**	8200.00
5203S	5200g	0.001g	1mg	5mg	1s	1.5g	MSA5203S-100-DE	**14-557-256**	11,400.00
5203P	1200/2400/5200g	0.001/0.002/0.005g	1/2/5mg	5mg	1s	1.5g	MSA5203P-100-DE	**14-557-257**	10,240.00

† *According to United States Pharmacopeia Chapter 41.*

Sartorius™ Cubis™ MSE Analytical Balances

Ideal for users who need to weigh with the highest accuracy, but have lower needs in terms of complexity of a weighing process and in data management

MSE Analytical Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

MSE Display and Control Unit

- Large, high-contrast LCD with clearly structured keys for precise activation of functions
- Easy-to-understand menu guidance with short text prompts
- Comes standard with built-in USB and 25-pin RS232C communication interfaces
- Perfect for users who need to weigh with the highest accuracy, but who have less complex application/communication requirements

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Description	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
Draft Shield with Automatic Doors									
124S	120g	0.1mg	0.1mg	0.2mg	1s	0.12g	MSE124S-100-DA	**14-557-345**	6850.00
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSE224S-100-DA	**14-557-346**	7900.00
324P	80g; 160g; 320g	0.1/0.2/0.5mg	0.1/0.2/0.4mg	0.5mg	1s	0.12g	MSE324P-100-DA	**14-557-344**	7850.00
324S	320g	0.1mg	0.1mg	0.3mg	1s	0.12g	MSE324S-100-DA	**14-557-343**	8600.00
524P	120g; 240g; 520g	0.1/0.2/0.5mg	0.1/0.2/0.5mg	±0.2mg	<2s	20mg	MSE524P-100-DA	**14-557-342**	8500.00
524S	520g	0.1mg	0.2mg	±0.2mg	<2s	20mg	MSE524S-100-DA	**14-557-341**	10000.00
Draft Shield with Manual Doors									
124S	120g	0.1mg	0.1mg	0.2mg	1s	0.12g	MSE124S-100-DU	**14-557-354**	4850.00
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSE224S-100-DU	**14-557-355**	5900.00
324P	80g; 160g; 320g	0.1/0.2/0.5mg	0.1/0.2/0.4mg	0.5mg	1s	0.12g	MSE324P-100-DU	**14-557-353**	5850.00
324S	320g	0.1mg	0.1mg	0.3mg	1s	0.12g	MSE324S-100-DU	**14-557-352**	6600.00
524P	120; 240; 520g	0.1/0.2/0.5mg	0.1/0.2/0.5mg	±0.2mg	<2s	20mg	MSE524P-100-DU	**14-557-351**	6500.00
524S	520g	0.1mg	0.2mg	±0.2mg	<2s	20mg	MSE524S-100-DU	**14-557-350**	8000.00

Sartorius™ Cubis™ MSU Analytical Balances

Combines classic key-operated control with a wide range of performance features

MSU Analytical Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

- Tiltable and removable large, high-resolution monochrome graphic display
- Key operation; positive click action and precise activation of functions
- Combines classic key-operated control with a wide range of performance features
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader fordata storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easyoperation and programming
- Ensures safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions

14-557-295

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5° to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use;Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
Automatic Draft Shield Door									
124S	120g	0.1mg	0.1mg	0.2mg	1s	0.12g	MSU124S-100-DA	**14-557-295**	7850.00
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSU224S-100-DA	**14-557-296**	8900.00
324P	80g; 160g; 320g	0.1/0.2/0.5mg	0.1/0.2/0.4mg	0.5mg	1s	0.12g	MSU324P-100-DA	**14-557-294**	8850.00
324S	320g	0.1mg	0.1mg	0.3mg	1s	0.12g	MSU324S-100-DA	**14-557-293**	9600.00
524S	520g	0.1mg	0.2mg	0.2mg	2s	20mg	MSU524S-100-DA	**14-557-291**	11,000.00
Manual Draft Shield Door									
124S	120g	0.1mg	0.1mg	0.2mg	1s	0.12g	MSU124S-100-DU	**14-557-304**	5850.00
224S	220g	0.1mg	0.07mg	0.2mg	1s	0.12g	MSU224S-100-DU	**14-557-305**	6900.00
324P	80g; 160g; 320g	0.1/0.2/0.5mg	0.1/0.2/0.4mg	0.5mg	1s	0.12g	MSU324P-100-DU	**14-557-303**	6850.00
324S	320g	0.1mg	0.1mg	0.2mg	1s	0.12g	MSU324S-100-DU	**14-557-302**	7600.00
524P	120g; 240g; 520g	0.1/0.2/0.5mg	0.1/0.2/0.5mg	0.2mg	2s	20mg	MSU524P-100-DU	**14-557-301**	7500.00
524S	520g	0.1mg	0.2mg	0.2mg	2s	20mg	MSU524S-100-DU	**14-557-300**	9000.00

† *According to United States Pharmacopeia Chapter 41.*

Sartorius™ Entris Analytical and Precision Balances

When you need to get a heavy workload of repetitive applications done fast

White-backlit, high-contrast display with 15 mm digits; exceptionally easy to read under any room lighting conditions.

Easy configuration of the individual settings guided by menu-driven text prompts (choice of 5 languages) and simple navigation using cursor keys

External calibration only

- RS-232C bidirectional interface port; optional Sartorius cable for connection of the balance to a USB port

Total ease of operation

- All keys have positive click action
- Clearly defined control panel
- Monolithic weighing cell provides thermal stability and fast response times
- Fast response time and display stability
- Language-driven user interface
- Unit toggle of up to 5 units

APPLICATIONS:
Percent weighing, unit toggle, animal weighing, net-total, calculation, density determination and counting

14-557-446

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Each
Sartorius Entris Analytical Balances							
220g	0.1mg	0.1mg	0.2mg	Ø90mm	ENTRIS224-1S	**14-557-446**	2000.00
120g	0.1mg	0.1mg	0.2mg	Ø90mm	ENTRIS124-1S	**14-557-447**	1800.00
60g	0.1mg	0.1mg	0.2mg	Ø90mm	ENTRIS64-1S	**14-557-448**	1500.00
Sartorius Entris Precision Balances							
620g	1mg	1mg	2mg	Ø115mm	ENTRIS623-1S	**14-557-449**	1450.00
420g	1mg	1mg	2mg	Ø115mm	ENTRIS423-1S	**14-557-450**	1250.00
320g	1mg	1mg	2mg	Ø115mm	ENTRIS323-1S	**14-557-451**	1050.00
150g	1mg	1mg	2mg	Ø115mm	ENTRIS153-1S	**14-557-452**	900.00

Sartorius™ Practum™ Analytical Weighing Balances

Obtain professional results with a world-class weighing instrument

Innovative housing design and rugged weigh cell for easy weighing. Outstanding connectivity when transferring results to Microsoft™ Excel spreadsheet or printer YDP40.

- Pay only for what you actually need
- Consistent readings with outstanding repeatability and overload protection for many years of reliability
- Supervisor lock prevents unintentional changes to the settings
- Transfer data from your balance to a printer or a computer quickly and easily with plug and play technology
- Sturdy, ergonomic draft shield withstands rigorous weigh routines, by multiple users
- Instrument can be completely disassembled for convenient cleaning

Specifications:

- Level control: glass level indicator with air bubble for centering
- Calibration: external
- Weighing units: g,ct, om, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Tamper protection: supervisor lock
- Language selection: English, French, Spanish
- Theft lock: Kensington lock or lockdown with cable or chain
- Weigh below: yes
- Output: mini-USB
- Power: 100 to 240V (universal)

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide

Practum Series

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Price
120g	0.0001g	0.0001g	0.0003g	3.5" (90mm)	PRACTUM124-1S	**14-557-421**	2150.00
220g	0.0001g	0.0001g	0.0003g	3.5" (90mm)	PRACTUM224-1S	**14-557-422**	2550.00

Sartorius™ Quintix™ Analytical Weighing Balances

Advanced weighing technology provides reliable and accurate results

Offers smart and efficient weighing, improved workflows with touch-screen and scroll technology which enables user to easily navigate through all balance operations without a manual.

- Simple menu navigation and integrated applications at the touch of a key
- Clearly visible icons provide easy-to-follow balance operations; displayed results give users immediate feedback and confidence
- Maximum accuracy all the time, thanks to isoCAL™ fully automatic internal calibration and balance adjustment
- Record keeping is easier with Quintix USB "plug and work" connectivity to a printer or computer

Specifications:

- Level control: glass level indicator with air bubble for centering
- Calibration: internal, fully automatic calibration with configurable action level; also offers external
- Weighing units: g, ct, mom, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Stability indicator: yes
- Tamper protection: supervisor lock
- Housing protection: acetone cleanable housing
- Verified models: yes
- Language selection: English, French, Spanish
- Theft lock: Kensington lock and lockdown capability for cable or chain
- Output: mini-USB
- Power: 100 to 240V (universal)

Quintix Series

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide, dust cover

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Price
220g	0.0001g	0.0001g	0.0002g	3.5" (90mm)	QUINTIX224-1S	**14-557-410**	3450.00
120g	0.0001g	0.0001g	0.0002g	3.5" (90mm)	QUINTIX124-1S	**14-557-409**	3000.00

Sartorius™ Secura™ Analytical Weighing Balances

Easy, reliable weighing in regulated work areas

Designed for customers who work in regulated environments and need high quality results without any risk. Secura ensures the quality of the measurement results, compliance with regulatory requirements and work flow efficiency improvement.

- Weigh without risk: Data transfer to a printer or a computer is blocked when most common operating errors occur
- Features Level Control – an optoelectronic level monitoring, alarm messaging and interactive user support feature
- Programmed SQmin in the balance allows active monitoring of the USP minimum sample weight requirement
- IsoCAL™ provides internal fully automatic, motorized calibration and adjustment function with configurable action level
- Cal Audit Trail provides traceable documentation of all calibration and adjustment data inside the balance
- GLP-compliant printouts with proper time and date stamps, with Sartorius GLP printer YDP30
- Password protection prohibits unauthorized changes of weighing settings
- Innovative housing design allows easy cleaning for thorough results
- Optimized draft ring and level control for working in laminar air flow environments

Secura Series

Specifications:

- Calibration: isoCAL internal automatic calibration; also offers external
- Safety level: configurable in three levels
- Weighing units: g, ct, mom, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Stability indicator: yes
- Housing protection: acetone cleanable housing
- Verified models: yes
- Language selection: English, French, Spanish
- Theft lock: Kensington lock and lockdown capability for cable or chain
- Output: mini-USB
- Power: 100 to 240V (universal)

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide, dust cover, draft ring

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Each
120g	0.0001g	0.0001g	0.0002g	3.5" (90mm)	SECURA124-1S	**14-557-400**	3600.00
220g	0.0001g	0.0001g	0.0002g	3.5" (90mm)	SECURA224-1S	**14-557-401**	4070.00

Ohaus™ Explorer™ Precision High Capacity Balance

Provides unmatched functionality in a line of high-performance balances

- AutoCal™, one second stabilization time, two touchless sensors, 5.7 inch full color touch screen
- Superior protection in rugged or unstable environments, a die-cast metal base, IP54 base protection
- Optional 10 hours rechargeable battery, optional rolling feet provide assistance in easily moving the balance
- QWERTY keyboard and numeric keypad to quickly input GLP and GMP data and other application data
- Easy access communication ports including standard USB and RS232 and an optional third port of either RS232 or ethernet
- GLP/GMP data output with real time clock
- Data transfer function
- Die-casting housing, stainless steel pan, replaceable in-use cover, IP54 base protection
- AutoCal fully-automatic internal calibration system, one second stabilization time, two touch less sensors, integral weigh below hook, 2-D protection, optional 10 hours rechargeable battery, optional adjustable rolling feet, up to 13 operating languages, NTEP and OIML models available

02-112-245

INCLUDES:
Power Cord

Model	Capacity	Readability	Platform Size	Mfr. No.	Cat. No.	Each
EX12001	12000g	0.1g	377× 311mm	30057099	**02-112-245**	3625.00
EX24001	24000g	0.1g	377× 311mm	30057100	**02-112-246**	4453.00
EX35001	35000g	0.1g	377× 311mm	30057101	**02-112-250**	5280.00

Ohaus™ Adventurer™ Pro Analytical Balances

Rich in features, compact in size

Balances count, sum, hold and deliver traceable results. Three weighing capacities, with or without InCal™ internal calibration system.

Design

- Frameless, flip-top draft shield permits easy access into the weighing chamber — helps eliminate spillage and reduce waste
- Doors and glass panels disassemble in seconds, so they're easy to clean
- QuadraStance™ provides superior footprint stability on any surface
- Large stainless-steel weighing platform
- Two-line alphanumeric LCD, 4 × 1" (10 × 2.5cm) with brilliant backlight
- Replaceable protective in-use cover
- Integrated security bracket for accessory anti-theft lock (01-950-6, order online at www.fishersci.com)

Performance

- SmarText™ software guides users through application use and balance setup; displays weight and application-specific information simultaneously
- Digital calibration without external weight (models with InCal) or with external weight (models without InCal)
- Standard RS-232 interface, plus optional factory-installed USB or second RS-232, enable multiple connections for full GLP/GMP data output

01-919-204

WARRANTY:
Two years (U.S. and Canada)

CERTIFICATIONS:
Meet requirements of: CE, FCC, CULUS, CCSAUS, NRTL; C Tick; CB Scheme; IP33 (without power adapter, with pan put on); IP20 (with power adapter, with pan put on).

	With InCal			Without InCal		
Model	**AV64C**	**AV114C**	**AV264C**	**AV64**	**AV114**	**AV264**
Readability	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Weighing Range	0 to 65g	0 to 110g	0 to 260g	0 to 65g	0 to 110g	0 to 260g
Taring Range (by Subtraction)	0 to 65g	0 to 110g	0 to 260g	0 to 65g	0 to 110g	0 to 260g
Repeatability	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Linearity	±0.2mg	±0.2mg	±0.3mg	±0.2mg	±0.2mg	±0.3mg
Stabilization Time	3 sec.	3 sec.	3 sec.	3 sec.	3 sec.	3 sec.
Pan Dia.	3.50" (9cm)	3.50" (9cm)	3.50" (9cm)	3.50" (9cm)	3.50" (9cm)	3.50" (9cm)
Overall L × W × H	11.87 × 8.75 × 12" (22 × 30 × 30.5cm)	11.87 × 8.75 × 12" (22 × 30 × 30.5cm)	11.87 × 8.75 × 12" (22 × 30 × 30.5cm)	11.87 × 8.75 × 12" (22 × 30 × 30.5cm)	11.87 × 8.75 × 12" (22 × 30 × 30.5cm)	11.87 × 8.75 × 12" (22 × 30 × 30.5cm)
Net Weight	9.6 lb. (4.4kg)	9.6 lb. (4.4kg)	9.6 lb. (4.4kg)	8.7 lb. (4kg)	8.7 lb. (4kg)	8.7 lb. (4kg)
Mfr. No.	80103761	80103739	80103781	AV64-US	AV114-US	AV264-US
Cat. No.	**01-919-204**	**01-919-206**	**01-919-208**	**01-919-205**	**01-919-207**	**01-919-209**
Each	2800.00	3091.92	3624.40	2450.00	2820.00	3350.00

Ohaus™ Discovery™ Semi-Micro and Analytical Balances

High-precision balance provides exceptional weighing performance and reproducibility with 0.01mg readability

With its affordable price, innovative design, and convenient, SmarText™ user interface, the Discovery provides everything you need in a high-precision balance. Its advanced features and wide range of built-in applications take the manual work out of specimen analysis.

Features

- Discovery's 10µg repeatability and linearity is 2X better than most balances in its class
- SmarText user interface with bright, dual-line, backlit LCD utilizes text prompts to guide users through setup and operation
- Advanced AutoCal™ dual-weight internal calibration system automatically calibrates the balance when it senses a temperature change sufficient enough to affect weighing accuracy; also performs a 3-point linear calibration every time scale is internally calibrated
- Cal Adjust and Cal Test allow traceability and validation
- Stability filters, stability indicator range and auto-zero tracking enable use in difficult environments
- Ideal for university research, pharmaceutical research/drug discovery and general lab applications
- Weighing units include g, mg, dwt, ct, oz, ozt, GN, taels (3), mommes, custom

Design

- Full glass and steel construction resists effects of static and corrosion
- Draft shield and housing design provide optimum draft protection and maximum static resistance for superior stability and reproducibility in challenging environments such as high traffic areas
- Ergonomic leveling system; menu and calibration lock-out switch; factory reset option; spill gutter and in-use protective keypad cover
- User selectable GLP outputs via RS-232 to meet traceability requirements
- Right- and left-hand tare buttons
- Integral weigh-below hook

01-920-051

WARRANTY: Two years (U.S. and Canada)

CERTIFICATIONS:
Certified to CSA 1010-1, UL 3101-1 and IEC 1010-1. FCC approved.

Model	Capacity	Phase	Stabilization Time	Mfr. No.	Cat. No.	Each
DV114C	110g	110g × 0.1mg	4 sec.	80104136	**01-920-050**	4507.39
DV214C	210g	210g × 0.1mg	4 sec.	80104137	**01-920-051**	4953.34
DV314C	310g	310g × 0.1mg	8 sec.	80104138	**01-920-053**	5599.44
DV215CD	81/210g	81/210g × 0.1mg/0.01mg	12 sec./5 sec.	80104139	**01-920-052**	6384.75

Ohaus™ Pioneer™ Analytical Balances

An excellent balance for routine weighing in lab, industrial and education applications

Selectable environmental settings, three filter modes, and adjustable zero tracking make the Pioneer ideal for working in slow filling applications where sensitivity is a must.

- Single-line LCD; no backlight
- Three-button panel with dedicated Yes and No functions
- RS-232 bidirectional interface
- Up-front level indicator — no need to look in back of balance during leveling process
- Works well in harsh environments; settings can be adjusted to compensate for vibrations and other disturbances
- Calibration lockout
- Security loop in rear of balance
- Optional communications software

INCLUDES:
AC adapter

WARRANTY:
Two years (U.S. and Canada)

CERTIFICATIONS:
FCC, CE

Model	PA 64	PA 114	PA 214
Readability	0.1mg	0.1mg	0.1mg
Capacity	65g	110g	210g
Repeatability	0.1mg	0.1mg	0.1mg
Stabilization Time	≤3 sec.	≤3 sec.	≤3 sec.
Weighing Modes	Weighing, parts counting, percent weighing	Weighing, parts counting, percent weighing	Weighing, parts counting, percent weighing
Dimensions (W × H × D)	7.75 × 11.25 × 12.62" (19.6 × 27.8 × 32cm)	7.75 × 11.25 × 12.62" (19.6 × 27.8 × 32cm)	7.75 × 11.25 × 12.62" (19.6 × 27.8 × 32cm)
Platform Size	90mm	90mm	90mm
Electrical Reqts.			
Voltage	AC adapter	AC adapter	AC adapter
Mfr. No.	80251550/RM	80251551/RM	80251552/RM
Cat. No.	**01-918-300**	**01-918-301**	**01-918-302**
Each	2169.44	2479.36	2750.80

Ohaus™ Explorer™ Analytical and Precision Balances

Delivers accurate results within seconds, improving operator efficiency, productivity and throughput

Modular design features a color touch display that can be separated from the weighing base.

- Full-color VGA graphic display (5.7" diagonal), 4-wire resistive touch screen
- QWERTY keyboard and numeric keypad
- Integral weigh below hook for below balance weighing application
- Removable stainless-steel weighing platform, stability indicator, overload and underload indicators
- Metal base, ABS top housing, stainless-steel pan, glass draftshield with flip-top door, replaceable in-use cover
- Standard USB and R-S232 communication ports and an optional third port of either RS-232 or ethernet
- GLP/GMP data ouput with real time clock
- Data transfer function
- AutoCal™ fully-automatic internal calibration system
- Fast stabilization time

01-919-240

INCLUDES:
AC adapter

CERTIFICATIONS:
NTEP and OIML models available.

Capacity	320g	420g	4200g	220g	1100g	10,200g	10,200g
Readability	0.0001g	0.001g	0.01g	0.0001g	0.001g	0.01g	0.1g
Stabilization Time	≤3 seconds	≤1.5 seconds	≤1 seconds	≤2 seconds	≤1.5 seconds	≤1 seconds	≤1 seconds
Platform Size	90mm†	130mm†	190 × 200mm	90mm‡	130mm‡	190 × 200mm	190 × 200mm
Dimensions, Display (L × W × H)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)	7.6 × 6 × 2.7" (19.5 × 15.5 × 6.8cm)
Dimensions, Base (L × W × H)	9 × 10.1 × 13.7" (23 × 26 × 35cm)	9 × 10.1 × 13.7" (23 × 26 × 35cm)	9 × 10.1 × 3.8" (23 × 26 × 9.8cm)	9 × 10.1 × 13.7" (23 × 26 × 35cm)	9 × 10.1 × 13.7" (23 × 26 × 35cm)	9 × 10.1 × 3.8" (23 × 26 × 9.8cm)	9 × 10.1 × 3.8" (23 × 26 × 9.8cm)
Net Weight	15.2 lb. (6.9kg)	15.2 lb. (6.9kg)	9 lb. (4.3kg)	15.2 lb. (6.9kg)	15.2 lb. (6.9kg)	11 lb. (5kg)	11 lb. (5kg)
Weighing Modes	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing	Weighing, Percent Weighing, Parts Counting, Check Weighing, Dynamic/ Animal Weighing
Power	AC Adapter (included); does not support battery power	AC Adapter (included); does not support battery power	AC Adapter (included); does not support battery power	AC Adapter (included); does not support battery power	AC Adapter (included); does not support battery power	AC Adapter (included); does not support battery power	AC Adapter (included); does not support battery power
Mfr. No.	EX324N	EX423N	EX4202N	EX224N	EX1103N	EX10202N	EX10201N
Cat. No.	**01-919-240**	**01-919-241**	**01-919-243**	**01-919-239**	**01-919-242**	**01-919-244**	**01-919-245**
Each	5564.00	3726.32	3726.32	4876.56	4890.00	4876.56	3750.24

† Comes with circular pan.

ACCESSORIES

Ohaus™ Explorer™ Draft Shield Kit

For use with Ohaus Explorer balances

Description	Mfr. No.	Cat. No.	Each
Draft Shield Kit	83021084	**01-919-324**	737.40

Ohaus™ Explorer™ Series Analytical Balances

Faster weighing with improved repeatability and vibration filtering

Deliver accurate results within seconds, improving operator efficiency, productivity and throughput, with a stabilization time up to 50% faster than earlier models.

Intelligent Performance

- Faster stabilization time improves operational efficiency, increases throughput, improves productivity
- Optimized linearity and repeatability specifications ensure accurate, repeatable results
- Superior vibration filtering provides balance stability in unstable environments
- Fully automatic AutoCal™ calibration system self-calibrates system when it senses a temperature change sufficient enough to affect weighing accuracy, or every 11 hours; external masses not required

Intuitive SmarText™ Graphical Software

- High-resolution, 5.7" (145mm) TFT display
- Resistive touch screen display
- 14 built-in customizable applications
- Minimum Weight capability with visual warning feature

Intuitive User Setup

- Easy-to-view illuminated level indicator at balance front
- Easy-to-use, adjustable thumbwheels level the balance
- Level-assist screen identifies thumbwheels to be adjusted
- Data Transfer Function for direct data output into Microsoft™ Excel™
- Instructional messaging guides users through the weighing process
- User information menu shows users available balance features
- Up to 11 operating languages available

WARRANTY: Two years (US and Canada)

COMPLIANCE:
Meet or Exceed Class I and II accuracy requirements in accordance with National Institute of Standards and Technology (NIST) Handbook 44 (approval summer 2011).

CERTIFICATIONS:
CE, FCC, Industry Canada, cULus, cCSAus, NRTL; C Tick; CB Scheme

01-920-232

Specifications	
Weighing Units	Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal,Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units
Readability	0.0001g
Repeatability Std.	±0.0001g
Linearity	plus-or-minus0.0002g
Calibration	AutoCal on Δ1.5°C temperature change, 11 hours, and external calibration
Tare Range	To capacity by subtraction
Power Requirements	AC adapter input: 100-240VAC, 0.6A, 50/60Hz
Display Type	Full-color VGA graphic display, 4-wire resistive touch screen
Display Size	5.7" (14.5cm), diagonal
Display Housing	7.7W × 3.5H × 6.0"D (19.5 × 9 × 15.4cm)
Base Housing (W × H × D)	9.1 × 3.9 × 15.5" (23 × 9.8 × 39.3cm)
Communication Ports	RS232, USB
Operating Temperature Range	50° to 86°F (10° to 30°C)
Operating Humidity Range	15 to 80% at 87.8°F (31°C), decreasing linearly to 50% at 40°C, noncondensing
Storage Requirements	-14° to +140°F (-10° to +60°C) at 10 to 90% relative humidity, noncondensing
Pan Size	3.5" (9cm)
Net Weight	15.2 lb. (6.9kg)
Shipping Weight	21.1 lb. (9.6kg)

Capacity	Stabilization Time (sec.)	Mfr. No.	Cat. No.	Each
120g	≤2 sec.	83021331	**01-920-232**	4125.68
220g	≤2 sec.	83021332	**01-920-233**	4685.20
320g	≤3 sec.	83021335	**01-920-234**	5324.80

Ohaus™ Explorer™ Analytical and Precision Balances

Risen to the next level of ingenuity; expanding on its modern features and design to offer unmatched functionality

- Large color touch-screen display
- Icon-driven application software that features 14 unique application modes
- Three level adjustable angle display
- Newly optimized linearity and repeatability specifications
- Enhanced vibration filtering for better balance stability
- All models come standard with AutoCal™ automatic internal calibration
- 3 × 3 filtering setup ensures fast and stable weighing results
- The base and display separate for maximum flexibility in any work area
- Draftshield models isolate the weighing chamber to enhance stability and speed results while offering maximum accessibility to the weighing chamber through top-mounted side doors or through the versatile top door that flips or slides open
- Hands-free entry is available with optional automated side doors
- Easy access communication ports (USB, RS232) plus third communication port slot (Ethernet or second RS232)
- GLP and GMP including date and time, Direct Data Transfer
- Metal base, ABS top housing, stainless steel pan, glass draftshield with flip-top door, replaceable in-use cover

02-112-233

Model	Capacity	Readability	Mfr. No.	Cat. No.	Each
EX124/AD	120g	0.1mg	30061976	**02-112-233**	6325.00
EX224/AD	220g	0.1mg	30061977	**02-112-234**	6850.00
EX324/AD	320g	0.1mg	30061978	**02-112-235**	7450.00
EX124N/AD	120g	0.1mg	30061997	**02-112-236**	6825.00
EX224N/AD	220g	0.1mg	30061998	**02-112-237**	7350.00
EX324N/AD	320g	0.1mg	30061999	**02-112-238**	7950.00
EX223/E	220g	1mg	30061979	**02-112-239**	2471.00
EX423/E	420g	1mg	30061980	**02-112-240**	2813.00
EX2202/E	2200g	0.01g	30061981	**02-112-241**	2473.00
EX4202/E	4200g	0.01g	30061982	**02-112-242**	2839.00
EX6202/E	6200g	0.01g	30061983	**02-112-243**	3176.00
EX6201/E	6200g	0.1g	30061984	**02-112-244**	2657.00

Before You Buy **Toploading Balances**

METTLER TOLEDO

Important Terms to Know:

- **Readability** – The smallest displayed digit, or weight, on any balance
- **Accuracy** – A measure of the balance's ability to hit, or repeat, a result
- **Stabilization Time** – The time a balance requires to come to rest, from the moment a load is placed on the pan, to the moment the result is displayed
- **Repeatability** – The closeness of repeated results carried out in assumed identical conditions
- **Linearity** – A measure of how well the balance is capable of following the linear relationship between the loaded weight and the displayed value

Features To Look For

From simple to sophisticated, METTLER TOLEDO's full line of balance solutions offers a variety of features to meet your needs.

Excellence Plus XP – Regulatory compliance and high productivity solutions

Excellence XS – Durable and efficient for routine operations

NewClassic MS – Reliable and robust for simple weighing

NewClassic ML – Compact and portable for easy weighing

Consider:

- **Support:** Unparalleled support from sales representatives, nationwide service organization and technical support.
- **Durability:** All-metal housing resists chemicals and withstands even the most demanding environments.
- **Monobloc™:** Rugged and reliable weigh cell that protects against impact and overload.
- **proFACT:** Fully automatic internal calibration and linearization with two internal weights. Calibration can be programmed to occur at specific times throughout the day, ensuring the balance is performing at its best.
- **Pan Size:** A larger pan size allows for proper placement of larger samples.

MODEL SELECTION CHART						
For regulatory compliance, high productivity and data/sample security	XP603S	XP1203S	XP6002S	XP8002S	XP64001L	XP32000L
For efficient weighing in routine weighing applications	XS603S	XS1003S	XS2002S	XS6002S	XS4001S	XS16001L
For simple weighing in a demanding environment	MS303S	MS603S	MS1602S	MS4002S	MS6001S	MS16001L
For easy weighing tasks on a low budget	ML203E	ML303E	ML802E	ML4002E	ML1501E	ML6001E

Additional models available.

For more information, please see METTLER TOLEDO offerings starting on pages 54.

Electronic Toploading

METTLER TOLEDO™ Excellence XS Series Precision Balances—2100g to 6100g

Designed for highest efficiency in everyday operation, reliability and ease of use

- Fast, precise weighing results
- Touch-screen display with graphical user guidance MonoBloc High-Speed weighing cell, accelerated via dedicated processor
- Alphanumeric sample ID entry (up to three IDs per sample)
- GLP/GMP-compliant printouts
- Verified versions and stand-alone platforms available

Design

- Large, square weighing pans with up to 30% more surface are
- Draft shield (1mg models) for direct access to weighing pan from any side
- Robust construction and IP54 in-use protection

WARRANTY:
One year standard warranty with return of warranty card. Warranty can be extended for 12 additional months by ordering Cat. No. 09-313-190 or extended 24 additional months by ordering Cat. No. 01-910-600.

01-910-408

Model	XS2002S	XS4002S	XS4002SDR	XS6002S	XS6002SDR	XS4001S
Readability	0.01g	0.01g	0.01g/0.1g	0.01g	0.01g/0.1g	0.1g
Weighing Range	0 to 2100g	0 to 4100g	0 to 800g; 0 to 4100g	0 to 6100g	0 to 1200g; 0 to 6100g	0 to 4100g
Taring Range	0 to 2100g	0 to 4100g	0 to 4100g	0 to 6100g	0 to 6100g	0 to 4100g
Repeatability	8mg	8mg	8mg/60mg‡	8mg	8mg/40mg‡	80mg
Linearity	20mg	20mg	60mg	±20mg	60mg	±60mg
Stabilization Time	1.2 sec.	1.2 sec.	1.2 sec.	1.2 sec.	1.2 sec.	0.8 sec.
Pan Size (L × W)	6.62 × 8" (17 × 20.5cm)	6.62 × 8" (17 × 20.5cm)	6.62 × 8" (17 × 20.5cm)	6.62 × 8" (127 × 127mm)	6.62 × 8" (17 × 20.5cm)	7.62 × 8.75" (190 × 223mm)
Dimensions (L × W × H)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)
Net Weight	14.62 lb. (6.6kg)	14.62 lb. (6.6kg)	14.62 lb. (6.6kg)	14.62 lb. (6.6kg)	14.62 lb. (6.6kg)	14.62 lb. (6.6kg)
Electrical Reqts.	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz
Mfr. No.	11130171	11130174	11130177	11130180	11130183	11130186
Cat. No.	**01-910-406**	**01-910-407**	**01-910-408**	**01-910-409**	**01-910-410**	**01-910-411**
Each	3761.00	4128.00	3612.00	4519.00	3857.00	3000.00

METTLER TOLEDO™ Excellence XS Series Precision Balances—210g to 1010g

Designed for highest efficiency in everyday operation, reliability and ease of use

01-910-402

Model	XS203S	XS403S	XS603S	XS603SDR	XS1003S	XS802S
Readability	1mg	1mg	1mg	1mg/0.01g	1mg	0.01g
Weighing Range	0 to 210g	0 to 410g	0 to 610g	0 to 120g; 0 to 610g	0 to 1010g	0 to 810g
Taring Range	0 to 210g	0 to 410g	0 to 610g	0 to 610g	0 to 1010g	0 to 810g
Repeatability	0.9mg	0.9mg	0.9mg	1mg/5mg†	0.8mg	8mg
Linearity	2mg	±2mg	2mg	5mg	±2mg	20mg
Stabilization Time	1.5 sec.	1.5 sec.	1.5 sec.	1.5 sec.	1.5 sec.	1.2 sec.
Pan Size (L × W)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	6.62 × 8" (17 × 20.5cm)
Dimensions (L × W × H)	15.25 × 7.62 × 10" (39.2 × 19.4 × 25.6cm)	15.25 × 7.62 × 10" (39.2 × 19.4 × 25.6cm)	15.25 × 7.62 × 10" (39.2 × 19.4 × 25.6cm)	15.25 × 7.62 × 10" (39.2 × 19.4 × 25.6cm)	15.25 × 7.62 × 10" (39.2 × 19.4 × 25.6cm)	15.25 × 7.62 × 10" (39.2 × 19.4 × 9.6cm)
Net Weight	17 lb. (7.7kg)	17 lb. (7.7kg)	17 lb. (7.7kg)	17 lb. (7.7kg)	17 lb. (7.7kg)	14.62 lb. (6.6kg)
Electrical Reqts.	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz
Mfr. No.	11130153	11130156	11130159	11130162	11130165	11130168
Cat. No.	**01-910-400**	**01-910-401**	**01-910-402**	**01-910-403**	**01-910-404**	**01-910-405**
Each	4000.00	4227.00	4465.00	3960.00	5113.00	3397.00

METTLER TOLEDO™ Excellence XS Series Precision Balances—6100g to 10,100g

Designed for highest efficiency in everyday operation, reliability and ease of use

Model	XS6001S	XS8001S
Readability	0.1g	0.1g
Weighing Range	0 to 6100g	0 to 8100g
Taring Range	0 to 6100g	0 to 8100g
Repeatability	80mg	80mg
Linearity	60mg	100mg
Stabilization Time	0.8 sec.	1.0 sec.
Pan Size (L × W)	7.37 × 8.75" (19 × 22.3cm)	7.37 × 8.75" (19 × 22.3cm)
Dimensions (L × W × H)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.25" (39.2 × 19.4 × 9.6cm)
Net Weight	14.62 lb. (6.6kg)	14.62 lb. (6.6kg)
Electrical Reqts.	100 to 240V, 50/60Hz	100 to 240V, 50/60Hz
Mfr. No.	11130189	11130192
Cat. No.	**01-910-412**	**01-910-413**
Each	3316.00	3586.00

1910412

METTLER TOLEDO™ NewClassic ME Precision Balances

Efficient and convenient performance for daily weighing

Essential functionality plus ergonomic design.

Designed to Last

- Solid metal base
- Reinforced body
- Overload protection up to 100kg

Stable and Accurate

- State-of-the-art technology
- Readability and repeatability from 0.1 to 0.001g
- Low temperature drift effect: 3.0ppm/°C

Efficient Operation

- Intuitive interface with clear readout: large numbers and backlit display
- 10 built-in applications
- Fast, <1.5 sec. settling time
- Rounded edges and smooth surfaces for easy cleaning
- Front-feet leveling

Compliance Documentation

- Trace data with built-in data and time function
- Meet ISO/GLP documentation requirements

NewClassic ME Precision Balance

Model	Max. Capacity	Readability/ Repeatability	Mfr. No.	Cat. No.	Each
ME103E	120g	0.001g	30029098	**01-912-403**	1277.00
ME203E	220g	0.001g	30029097	**01-912-404**	1434.00
ME303E	320g	0.001g	30029096	**01-912-405**	1591.00
ME403E	420g	0.001g	30029095	**01-912-406**	1748.00
ME1002E	1200g	0.01g	30029122	**01-912-407**	1264.00
ME2002E	2200g	0.01g	30029121	**01-912-408**	1348.00
ME3002E	3200g	0.01g	30029120	**01-912-409**	1433.00
ME4002E	4200g	0.01g	30029119	**01-912-410**	1602.00
ME4001E	4200g	0.1g	30029884	**01-912-411**	991.00

Specifications			
Models	ME103E, ME203E, ME303E, ME403E	ME1002E, ME2002E, ME3002E, ME4002E	ME4001E
Max. Capacity	120g, 220g, 320g, 420g	1002g, 2002g, 3002g, 4002g	4200g
Pan Size	12.0cm dia.	18.0 x 18.0cm, L × W	18.0 × 18.0cm, L × W
Readability	0.001g	0.01g	0.1g
Repeatability	0.001g	0.01g	0.1g
Linearity	0.002g	0.02g	0.2g
Settling Time	1.5 sec.	1.0 sec.	1.0 sec.
Sensitivity (Temperature Drift)	3.0ppm/°C	3.0ppm/°C	3.0ppm/°C
Outside Dimensions	12.4 × 8.2 × 11.3" (31.9 × 21.0 × 28.9cm)	12.4 × 7.8 × 3.9" (31.9 × 20.0 × 10.0cm)	12.4 × 7.8 × 3.9" (31.9 × 20.0 × 10.0cm)
Weight	4.4kg	3.2kg	3.2kg

METTLER TOLEDO™ NewClassic ML Precision Balances

NewClassic ML Balances With External Adjustment

- MonoBloc™ proven weighing technology for fast and accurate results
- Full independence from power supply for 8 hours
- Protects the weighing cell against excess weight overload
- RS232 interface for connection to PC or printer. No additional software needed
- Easy running of balance diagnostics test e.g. keypad test, repeatability test
- OIML approved versions of all models available
- Adjustment at a keystroke with an internal weight
- Protective cover encloses the entire housing protecting the balances from stains and scratches

NewClassic ML Precision Balance

0.01g Balance

Capacity	Mfr. No.	Cat. No.	Each
220g	11145255	**01-910-224**	1761.00
320g	11145264	**01-910-225**	1863.00
820g	11145303	**01-910-226**	1428.00
1520g	11145315	**01-910-227**	1761.00
3200g	11145327	**01-910-228**	2201.00
4200g	11145333	**01-910-229**	2350.00

METTLER TOLEDO™ NewClassic MS Precision 0.001g Balances with Draftshield

Fast settling time and consistently reliable results

01-910-203

0.001g Balances with Draft Shield

Model	MS303S	MS403S	MS603S	MS1003S
Capacity	320g	420g	620g	1020g
Readability	0.001g	0.001g	0.001g	0.001g
Adjustment range with external weights	100 to 320g	100 to 420g	100 to 620g	500 to 1020g
Repeatability	0.001g	0.001g	0.001g	0.001g
Linearity	0.002g	0.002g	0.002g	0.002g
Sensitivity temperature drift (10-30°C)	3ppm/°C	3ppm/°C	3ppm/°C	3ppm/°C
Stabilization Time	1.5 sec.	1.5 sec.	2 sec.	2 sec.
Pan Size	5 × 5" (127 × 127mm)	5 × 5" (127 × 127mm)	5 × 5" (127 × 127mm)	5 × 5" (127 × 127mm)
Balance Dimensions	14 × 8 × 11.02" (347 × 204 × 280mm)	14 × 8 × 11.02" (347 × 204 × 280mm)	14 × 8 × 11.02" (347 × 204 × 280mm)	14 × 8 × 11.02" (347 × 204 × 280mm)
Weight	14 lb. (6.2kg)	14 lb. (6.2kg)	14 lb. (6.2kg)	14 lb. (6.2kg)
Mfr. No.	11144929	11144932	11144938	11144944
Cat. No.	**01-910-203**	**01-910-204**	**01-910-205**	**01-910-206**
Each	2493.00	3011.00	3588.00	4593.00

METTLER TOLEDO™ NewClassic MS Precision 0.01g Balances

Robust design, provides a visually attractive support for everyday weighing tasks

- HCD (High Contrast Display)
- Metal high-grade chemical resistant die-cast housing
- Fully automatic time and temperature-controlled internal adjustment (FACT)
- Protective cover
- Below weighing hook for weighing below the balance
- MonoBloc™ weighing technology

NOTES:
Sensitivity temperature drift for models without FACT: 10 ppm/ °C. Stability of sensitivity as from first installation with FACT automatic adjustment switched on.

NewClassic MS Precision Balance

0.01g Balances

Model	MS1602S	MS3002S	MS4002S	MS6002S
Capacity	1620g	3200g	4200g	6200g
Readability	0.01g	0.01g	0.01g	0.01g
Adjustment range with external weights	1000 to 1620g	1000 to 3200g	1000 to 4200g	2000 to 6200g
Repeatability	0.01g	0.01g	0.01g	0.01g
Linearity	0.02g	0.02g	0.02g	0.02g
Sensitivity temperature drift (10-30°C)	3ppm/°C	3ppm/°C	3ppm/°C	3ppm/°C
Stabilization Time	1.5 sec.	1.5 sec.	1.5 sec.	1.5 sec.
Pan Size	7 × 8" (17 × 20cm)	7 × 8" (17 × 20cm)	7 × 8" (17 × 20cm)	7 × 8 " (17 × 20cm)
Balance Dimensions	14 × 7 × 4" (35 × 19 × 10cm)	14 × 7 × 4" (35 × 19 × 10cm)	14 × 7 × 4" (35 × 19 × 10cm)	14 × 7 × 4" (35 × 19 × 10cm)
Weight	12 lb. (5.5kg)	12 lb. (5.5kg)	12 lb. (5.5kg)	12 lb. (5.5kg)
Mfr. No.	11144956	11144962	11144968	11144977
Cat. No.	**01-910-207**	**01-910-208**	**01-910-209**	**01-910-211**
Each	2504.00	2677.00	3062.00	3742.00

METTLER TOLEDO™ NewClassic MS Precision Balances

Offer combination of strong performance and increased productivity for everyday weighing tasks with fast settling time and consistently reliable results

- High-grade chemical-resistant die-cast aluminum housing
- Proven MonoBloc™ weighing technology guarantees long operation life and ruggedness
- Fully automatic time and temperature-controlled internal adjustment (FACT)
- The HCD (High Contrast Display) with big numbers, clear symbols and intuitive menu enables users to operate the balance quickly and easily
- Programmable three SmartKeys for shortcut access to applications
- Feature IP54 IP Protection
- RS-232 to connect to PC, printer or bar code reader; USB to connect to PC
- Manufactured in ISO 9001 and 14001 certified facility

NOTES:
Sensitivity temperature drift for models without FACT: 10 ppm/ °C. Stability of sensitivity as from first installation with FACT automatic adjustment switched on.

CERTIFICATION:
CE marked

NewClassic MS Precision Balance

0.1g, 0.01g and 0.01/0.1g Balances

Model	MS6001S	MS8001S	MS1602S	MS3002S	MS4002S	MS6002S
Capacity	6200g	8200g	1620g	3200g	4200g	6200g
Readability	0.1g	0.1g	0.01g	0.01g	0.01g	0.01g
Adjustment range with external weights	2000 to 6200g	2000 to 8200g	1000 to 1620g	1000 to 3200g	1000 to 4200g	2000 to 6200g
Repeatability	0.1g	0.1g	0.01g	0.01g	0.01g	0.01g
Linearity	0.2g	0.2g	0.02g	0.02g	0.02g	0.02g
Sensitivity temperature drift (10-30°C)	----	----	3ppm/°C	3ppm/°C	3ppm/°C	3ppm/°C
Stabilization Time	1 sec.	1 sec.	1.5 sec.	1.5 sec.	1.5 sec.	1.5 sec.
Pan Size	7.4 × 9" (190 × 226mm)	7.4 × 9" (190 × 226mm)	7 × 8" (17 × 20cm)	7 × 8" (17 × 20cm)	7 × 8" (17 × 20cm)	7 × 8 " (17 × 20cm)
Balance Dimensions	13.6 × 7.6 × 3.7" (347 × 194 × 96mm)	13.6 × 7.6 × 3.7" (347 × 194 × 96mm)	14 × 7 × 4" (35 × 19 × 10cm)	14 × 7 × 4" (35 × 19 × 10cm)	14 × 7 × 4" (35 × 19 × 10cm)	14 × 7 × 4" (35 × 19 × 10cm)
Weight	5.6kg	5.6kg	12 lb. (5.5kg)	12 lb. (5.5kg)	12 lb. (5.5kg)	12 lb. (5.5kg)
Mfr. No.	MS6001S	MS8001S	MS1602S	MS3002S	MS4002S	MS6002S
Cat. No.	**01-910-213**	**01-910-214**	**01-910-207**	**01-910-208**	**01-910-209**	**01-910-211**
Each	2374.00	2874.00	2504.00	2677.00	3062.00	3742.00

METTLER TOLEDO™ NewClassic ML 0.1g Balances

Ideal for work in field or whenever power supply is hard to find

Ergonomic design with multiple built-in applications.

- Brilliant backlit display, can be used even under extreme lighting conditions
- Battery operated: built-in battery slot fits 8 standard AA batteries for eight hours of use
- Direct connection: connects balance to a PC via the RS232 slot
- Easy-to-clean glass draft shield
- Internal adjustment at a keystroke
- Protective cover, overload protection
- Below weighing hook for weighing below the balance

NewClassic ML Precision Balance

Model	ML601E	ML1501E	ML3001E	ML6001E
Capacity	620g	1520g	3200g	6200g
Readability	0.1g	0.1g	0.1g	0.1g
Tare Range	0 to 620g	0 to 1520g	0 to 3200g	0 to 6200g
Repeatability	0.1g	0.1g	0.1g	0.1g
Linearity	0.2g	0.2g	0.2g	0.2g
Stabilization Time	1 sec.	1 sec.	1 sec.	1 sec.
Weighing Technology	Strain Gauge	Strain Gauge	Strain Gauge	Strain Gauge
Pan Size	6.29" (160mm)	6.29" (160mm)	6.29" (160mm)	6.29" (160mm)
Balance Dimensions	11.41 × 7.24 × 3.3" (290 × 184 × 84mm)	11.41 × 7.24 × 3.3" (290 × 184 × 84mm)	11.41 × 7.24 × 3.3" (290 × 184 × 84mm)	11.41 × 7.24 × 3.3" (290 × 184 × 84mm)
Net Weight	2.3kg	2.3kg	2.3kg	2.3kg
Mfr. No.	11143274	11143277	11145351	11145369
Cat. No.	**01-910-230**	**01-910-231**	**01-910-232**	**01-910-233**
Each	1065.00	1201.00	1380.00	1528.00

METTLER TOLEDO™ XP Series Precision Electronic Toploading Balances

Offers maximum security in regulated environments

- Hands-free operation with SmartSens and ErgoSens sensors
- Fully automatic temperature- and time-controlled internal adjustment with proFACT
- Warning feature (MinWeigh) notifies user if weight is below the allowed minimum
- Weighing adapter for optimal adaptation to the environment
- Includes MonoBloc High-Speed — a rugged, high-performance weigh cell for peak weighing performance
- Downloads software via the internet
- Displays different weighing units; displays statistics
- Adapts to the environment; adapts to weighing type
- Formula weighing, including security protection
- Factor calculation, alphanumeric identification, four IDs per sample, seven languages
- Safe operation in QM-regulated environments — includes User Management, Password Protection and Change History

Design

- Stainless-steel weighing pan with draft ring or draft shield
- Spring-loaded stabilizing feet for all 0.1 and 0.01g models
- Slot for second freely selectable interface and two switch contacts
- Protective cover for terminal and weighing platform; terminal can be mounted on special stand to save space
- Feedthrough for below-the-balance weighing

XP Series Precision Toploading Balance

Readability 100mg

Model	XP4001S	XP6001S	XP6002SDR	XP10001S
Readability	100mg	100mg	10mg/100mg	0.1g
Weighing Range	0 to 4100g	0 to 6100g	0 to 1200g; 0 to 6100g	0 to 10,100g
Taring Range	0 to 4100g	0 to 6100g	0 to 6100g	0 to 10,100g
Repeatability†	80mg	80mg	40mg	80mg
Linearity	±100mg	±100mg	±100mg	±100mg
Stabilization Time	0.8 sec.	0.8 sec.	1.2 sec.	1.0 sec.
Pan Size	7.37 × 8.75" (19 × 22.3cm)	7.37 × 8.75" (19 × 22.3cm)	6.62 × 8.0" (17 × 20.5cm)	7.37 × 8.75" (19 × 22.3cm)
Dimensions (L × W × H)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)
Net Weight	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)
Power Supply	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter
Mfr. No.	11130141	11130140	11130101	11130220
Cat. No.	**01-910-358**	**01-910-359**	**01-910-365**	**01-910-361**
Each	4245.00	4712.00	5064.00	5510.00

METTLER TOLEDO™ XP Series Precision Electronic Toploading Balances

Offer maximum security in regulated environments

01-910-364

Readability 10mg

Model	XP1202S	XP4002S	XP6002S	XP8002S	XP10002S
Readability	10mg	0.01g	10mg	10mg	10mg
Weighing Range	0 to 1210g	0 to 4100g	0 to 6100g	0 to 8100g	0 to 10100g
Taring Range	0 to 1210g	0 to 4100g	0 to 6100g	0 to 8100g	0 to 10100g
Repeatability†	8mg	8mg	8mg	8mg	8mg
Linearity	±20mg	±20mg	±20mg	±20mg	±20mg
Stabilization Time	1.2 sec.	1.2 sec.	1.2 sec.	1.5 sec.	1.5 sec.
Pan Size	$6^5/_8 \times 8"$ (17 × 20.5cm)	$6^5/_8 \times 8"$ (17 × 20.5cm)	$6^5/_8 \times 8"$ (17 × 20.5cm)	$6^5/_8 \times 8"$ (17 × 20.5cm)	$6^5/_8 \times 8"$ (17 × 20.5cm)
Dimensions (L × W × H)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)	15.25 × 7.62 × 3.75" (39.2 × 19.4 × 9.6cm)
Net Weight	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)	14.6 lb. (6.6kg)
Power Supply	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter	Connector w/100-240V AC/DC adapter
Mfr. No.	11130070	11130102	XP6002S	11130201	11130200
Cat. No.	**01-910-362**	**01-910-363**	**01-910-364**	**01-910-366**	**01-910-367**
Each	5061.00	5755.00	6244.00	7101.00	7753.00

METTLER TOLEDO™ XP Series Precision Electronic Toploading Balances

Offers maximum security in regulated environments

01-910-370

Readability 1mg

Model	XP203S	XP603S	XP1203S	XP2003SDR	XP5003SDR
Readability	1mg	1mg	1mg	1mg/10mg	1mg/10mg
Weighing Range	0 to 210g	0 to 610g	0 to 1210g	0 to 500g; 0 to 2100g	0 to 1000g; 0 to 5100g
Taring Range	0 to 210g	0 to 610g	0 to 1210g	0 to 2100g	1 to 5100g
Repeatability‡	0.9mg	0.9mg	0.8mg	1mg/6mg	1mg/6mg
Linearity	±2mg	±2mg	±2mg	±6mg	±6mg
Stabilization Time	1.5 sec.	1.5 sec.	1.5 sec.	2 sec.	2 sec.
Pan Size	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)	5 × 5" (12.7 × 12.7cm)
Dimensions } (L × W × H)	15.37 × 8.25 × 14.25" (39.5 × 21.4 × 36.3cm)	15.37 × 8.25 × 14.25" (39.5 × 21.4 × 36.3cm)	15.37 × 8.25 × 14.25" (39.5 × 21.4 × 36.3cm)	15.37 × 8.25 × 14.25" (39.5 × 21.4 × 36.3cm)	15.37 × 8.25 × 14.25" (39.5 × 21.4 × 36.3cm)
Height of Draft Shield	$9^5/_8$" (24.8cm)	$9^5/_8$" (24.8cm)	$9^5/_8$" (24.8cm)	$9^5/_8$" (24.8cm)	$9^5/_8$" (24.8cm)
Net Weight	17 lb. (7.7kg)	17 lb. (7.7kg)	17 lb. (7.7kg)	17 lb. (7.7kg)	17 lb. (7.7kg)
Power Supply	Connector w/100-240V AC/ DC adapter	Connector w/100-240V AC/ DC adapter	Connector w/100-240V AC/ DC adapter	Connector w/100-240V AC/ DC adapter	Connector w/100-240V AC/ DC adapter
Mfr. No.	11130022	11130020	11130000	11130088	11130094
Cat. No.	**01-910-369**	**01-910-370**	**01-910-372**	**01-910-421**	**01-910-422**
Each	5727.00	6811.00	7933.00	7856.00	8809.00

Sartorius™ Cubis™ MSE Precision Balances

The optimal solution for users who need to weigh with the highest accuracy, but demand lower complexity of weighing process and data management

MSE Precision Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

- Offer the highest level of safety by providing uncompromising reliability of weighing results and conformity to standards
- Short measurement times result in time gained — for every single measurement
- Come standard with Q-Level, the automatic motorized leveling function — provides valuable support to always have a leveled balance
- Feature isoCAL, a fully automatic calibration/adjustment function
- Q-Pan: Automatically minimizes off-center loading errors to maximize weighing accuracy
- Interfaces, such as: Bluetooth™ (wireless), 9-pin RS232C with PS2 port (for the connection of a keyboard or barcode scanner) or an additional 25-pin RS232C port are optionally available
- Draft shield and weigh pan can be quickly and easily disassembled and cleaned without compromising stability
- Protected against dust and water
- Offers a wide selection of accessories for extended options
- Pan size: 140 × 140mm

MSE Display and Control Unit

- Large, high-contrast LCD with clearly structured keys for precise activation of functions
- Easy-to-understand menu guidance with short text prompts
- Comes standard with built-in USB and 25-pin RS232C communication interfaces
- Perfect for users who need to weigh with the highest accuracy, but who have less complex application/communication requirements

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
Draft Shield wtih Manual Doors									
1203S	1200g	1mg	0.7mg	2mg	1s	1.5g	MSE1203S-100-DE	**14-557-361**	6000.00
2203P	1010g/2200g	1/10mg	1/6mg	5mg	1s	1.5g	MSE2203P-100-DE	**14-557-360**	6700.00
2203S	2200g	1mg	1mg	3mg	1s	1.5g	MSE2203S-100-DE	**14-557-359**	8000.00
3203S	3200g	1mg	1mg	5mg	1s	1.5g	MSE3203S-100-DE	**14-557-358**	8860.00
323S	320g	1mg	0.7mg	2mg	0.8s	1.5g	MSE323S-100-DE	**14-557-364**	4100.00
5203P	1200g/2400g/5200g	0.001/0.002/0.005g	0.001/0.002/0.005g	5mg	1s	1.5g	MSE5203P-100-DE	**14-557-357**	8860.00
5203S	5200g	0.001g	0.001g	5mg	1s	1.5g	MSE5203S-100-DE	**14-557-356**	9990.00
623P	150g/300g/620g	1/2/5mg	1/2/4mg	5mg	0.8s	1.5g	MSE623P-100-DE	**14-557-363**	4100.00
623S	620g	1mg	0.7mg	2mg	0.8s	1.5g	MSE623S-100-DE	**14-557-362**	4600.00

Sartorius™ Cubis™ MSU Precision Balances

Combines classic key-operated control with a wide range of performance features

Part of the Cubis modular equipment series, which incorporates a precisely-machined monolithic weigh cell for increased accuracy and ultra-fast response with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications in addition to the ability to choose the weighing module and draft shield to invest in only what is necessary.

MSU Display and Control Unit

- Tiltable and removable large, high-resolution monochrome graphic display
- Key operation; positive click action and precise activation of functions
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader
- Q-Guide: User/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminders.

14-557-311

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5° to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Mfr. No.	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
Manual Doors on Standard Size Draft Shield									
1203S	1200g	1mg	0.7mg	2mg	1s	1.5g	MSU1203S-100-DE	**14-557-311**	7000.00
1203P	1010g/2200g	1/10mg	1/6mg	5mg	1s	1.5g	MSU2203P-100-DE	**14-557-310**	7700.00
2203S	2200g	1mg	1mg	3mg	1s	1.5g	MSU2203S-100-DE	**14-557-309**	9000.00
3203S	3200g	1mg	1mg	5mg	1s	1.5g	MSU3203S-100-DE	**14-557-308**	9670.00
323S	320g	1mg	0.7mg	2mg	0.8s	1.5g	MSU323S-100-DE	**14-557-314**	5100.00
5203P	1200g/2400g/5200g	0.001/0.002/0.005g	0.001/0.002/0.005g	5mg	1s	1.5g	MSU5203P-100-DE	**14-557-307**	9670.00
5203S	5200g	0.001g	0.001g	5mg	1s	1.5g	MSU5203S-100-DE	**14-557-306**	10,820.00
623P	150g/300g/620g	1/2/5mg	1/2/4mg	5mg	0.8s	1.5g	MSU623P-100-DE	**14-557-313**	5100.00
623S	620g	1mg	0.7mg	2mg	0.8s	1.5g	MSU623S-100-DE	**14-557-312**	5600.00

Sartorius™ Entris Toploading Balances

When you need to get a heavy workload of repetitive applications done fast

- White-backlit, high-contrast display with 15 mm digits; easy to read in any lighting
- Easy configuration of settings guided by menu-driven text prompts (choice of 5 languages) and simple navigation using cursor keys
- External calibration only
- RS-232C bidirectional interface port; optional cable for connection to a USB port
- Total ease of operation
- All keys have positive click action
- Clearly defined control panel
- Monolithic weighing cell provides thermal stability and fast response times
- Language-driven user interface
- Unit toggle of up to 5 units

APPLICATIONS: Percent weighing, unit toggle, animal weighing, net-total, calculation, density determination and counting

14-557-453

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Each
6200g	10mg	10mg	30mg	----	ENTRIS6202-1S	**14-557-453**	1500.00
4200g	10mg	10mg	30mg	----	ENTRIS4202-1S	**14-557-454**	1300.00
3200g	10mg	10mg	30mg	----	ENTRIS3202-1S	**14-557-455**	1150.00
2200g	10mg	10mg	30mg	----	ENTRIS2202-1S	**14-557-456**	950.00
820g	10mg	10mg	30mg	----	ENTRIS822-1S	**14-557-457**	800.00
8200g	100mg	100mg	300mg	----	ENTRIS8201-1S	**14-557-458**	1100.00
5200g	100mg	100mg	300mg	----	ENTRIS5201-1S	**14-557-459**	1000.00
2200g	100mg	100mg	300mg	----	ENTRIS2201-1S	**14-557-460**	850.00

Sartorius™ Practum™ Precision Weighing Balances

Consistent readings with outstanding repeatability

Innovative housing design and rugged weigh cell for easy weighing. Outstanding connectivity when transferring results to Microsoft™ Excel spreadsheet or printer YDP40.

- Pay only for what you actually need
- Obtain professional results with a world-class weighing instrument
- Consistent readings with outstanding repeatability and overload protection for many years of reliability
- Supervisor lock prevents unintentional changes to the settings
- Transfer data from balance to printer or computer quickly and easily with plug and play technology
- Sturdy draft shield withstands rigorous weigh routines, by multiple users
- Instrument can be completely disassembled for convenient cleaning

14-557-423, 14-557-424

Specifications:

- Level control: Glass level indicator with air bubble for centering
- Calibration: External
- Weighing units: g,ct, om, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS,N
- Tamper protection: Supervisor lock
- Language selection: English, French, Spanish
- Theft lock: Kensington lock or Lockdown with cable or chain
- Weigh below: Yes
- Output: Mini-USB
- Power: 100 to 240V (universal)

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Price
310g	0.001g	0.001g	0.003g	4.75" (120mm)	PRACTUM313-1S	**14-557-424**	1450.00
210g	0.001g	0.001g	0.003g	4.75" (120mm)	PRACTUM213-1S	**14-557-423**	1300.00

Sartorius™ Quintix™ Precision Weighing Balances

Advanced weighing technology provides reliable and accurate results

Offer smart and efficient weighing, improved workflows with touch-screen and scroll technology which enables user to easily navigate through all balance operations without a manual.

- Simple menu navigation and integrated applications at the touch of a key
- Clearly visible icons provide easy-to-follow balance operations; displayed results give users immediate feedback and confidence
- Maximum accuracy all the time, thanks to isoCAL™ fully automatic internal calibration and balance adjustment
- Record keeping is easier with Quintix USB "plug and work" connectivity to a printer or computer

Sartorius Quintix Precision Weighing Balances

Specifications:

- Level control: Glass level indicator with air bubble for centering
- Calibration: Internal, fully automatic, motorized calibration and adjustment with configurable action level; also offers external
- Weighing units: g, ct, mom, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Stability indicator: Yes
- Tamper protection: Supervisor lock
- Housing protection: Acetone cleanable housing
- Verified models: Yes
- Language selection: English, French, Spanish
- Theft lock: Kensington lock and lockdown capability for cable or chain
- Output: Mini-USB
- Power: 100 to 240V (universal)

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Price
210g	0.001g	0.001g	0.002g	4.75" (120mm)	QUINTIX213-1S	**14-557-411**	1775.00
310g	0.001g	0.001g	0.002g	4.75" (120mm)	QUINTIX313-1S	**14-557-412**	1900.00
510g	0.001g	0.001g	0.002g	4.75" (120mm)	QUINTIX513-1S	**14-557-413**	2575.00

Ohaus™ Adventurer™ Pro Precision Electronic Balances

Simple operation for basic weighing, with the accuracy and range to support more advanced applications

QuadraStance™ feature keeps balance stable on any surface. SmarText™ software guides user through set and application.

Key Features

- Capacity ranges from 51 to 8100g
- Balances stabilize within 1.5 to 3 seconds, depending on model
- Weigh-below hook enables determination of density and specific gravity
- In difficult working situations, filtering to compensate against vibration and disturbances can be preprogrammed
- Standard overload and underload indicators alert operator when load changes are necessary
- Programmable energy-saving auto shutoff; low-battery indicator GLP/GMP capabilities such as data storage and output options for properly documenting balance activities to meet good practice requirements; include date, time, balance I.D., user I.D., project I.D. and reference
- Bidirectional RS-232 serial interface enables data transfer to a computer
- Custom two-line backlit LCD enhances viewing and displays additional reference information — allows you to simultaneously view reference and actual weight

Weigh Modes/Units

- Weighing modes include basic weighing, animal weighing, parts counting, percent weighing, check weighing, totalizing and display hold
- Measurements can be read in custom units or in a variety of standard units: milligram, gram, kilogram, ounce, pound, carat, pennyweight, ounce troy, grain, Newton, Hong Kong tael, Singapore tael, Taiwan tael, momme, tical, bath, mesghal and tola

Design

- QuadraStance design incorporates four feet to provide superior footprint stability on any surface
- Stainless-steel weighing platform resists corrosion; protective in-use cover
- Integral security bracket accommodates most security cables
- Simple three-button menu navigation promotes speedy setup

ORDERING INFORMATION: External calibration weights sold separately; contact your Customer Service Representative.

WARRANTY: Two years (U.S. and Canada)

CERTIFICATIONS: CE marked, UL listed, cCSA approved

01-919-211

NOTES:
Fisher Service Division offers several types of service agreements for the equipment featured here. For details on these agreements, equipment repairs, and calibration services, see the front of the catalog. For immediate assistance, call 1-800-395-5442.

51 to 810g

Model	AV53	AV213	AV313	AV212	AV412	AV812
Readability	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g
Weighing Range	0 to 51g	0 to 210g	0 to 310g	0 to 210g	0 to 410g	0 to 810g
Taring Range	0 to 51g	0 to 210g	0 to 310g	0 to 210g	0 to 410g	0 to 810g
Repeatability (Std. Deviation)	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g
Linearity	±0.002g	±0.002g	±0.002g	±0.02g	±0.02g	±0.02g
Stabilization Time	2.5 sec.	3 sec.	3 sec.	1.5 sec.	3 sec.	3 sec.
Pan Size	3.875" (10cm)	4.75" dia. (12cm)	4.75" dia. (12cm)	4.75" dia. (12cm)	5.75 × 6.25" (14.9 × 16.2cm)	5.75 × 6.25" (14.9 × 16.2cm)
Pan Size (with InCal)	—	4.75" dia. (12cm)	4.75" dia. (12cm)	4.75" dia. (12cm)	6.625 × 7.125" (16.8 × 18cm)	6.625 × 7.125" (16.8 × 18cm)
Dimensions (L × W × H)	10 × 7.62 × 5.62" (25.4 × 19.3 × 14.5cm)	11.75 × 8.75 × 7.5" (30 × 22 × 19cm)	11.75 × 8.75 × 7.5" (30 × 22 × 19cm)	10 × 7.625 × 2.75" (25.4 × 19.3 × 7.2cm)	10 × 7.625 × 2.75" (25.4 × 19.3 × 7.2cm)	10 × 7.625 × 2.75" (25.4 × 19.3 × 7.2cm)
Dimensions (L × W × H), with InCal	—	11.75 × 8.75 × 7.5" (30 × 22 × 19cm)	11.75 × 8.75 × 7.5" (30 × 22 × 19cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)
Net Weight	3.125 lb. (1.4kg)	7.25 lb. (3.3kg)	7.25 lb. (3.3kg)	2.625 lb. (1.2kg)	3.25 lb. (1.5kg)	3.25 lb. (1.5kg)
Net Weight (with InCal)	—	8.25 lb. (3.7kg)	8.25 lb. (3.7kg)	5.75 lb. (2.6kg)	7.5 lb. (3.4kg)	7.5 lb. (3.4kg)
Electrical Reqts.	AC Adapter (included) or 4 "AA" batteries	AC Adapter (included)	AC Adapter (included)	AC Adapter (included) or 4 "AA" batteries	AC Adapter (included) or 4 "AA" batteries	AC Adapter (included) or 4 "AA" batteries
Electrical Reqts. (with InCal)	—	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)
Without InCal Internal Calibration:						
Mfr. No.	AV53	80103812	80103833	AV212	AV412	AV812
Cat. No.	**01-921-17**	**01-919-211**	**01-919-213**	**01-921-18**	**01-921-19**	**01-921-20**
Each	1210.00	1739.00	1923.00	1082.00	1205.00	1335.42
With InCal Internal Calibration:						
Mfr. No.	—	AV213C	AV313C	AV212C	AV412C	AV812C
Cat. No.	—	**01-919-210**	**01-919-212**	**01-919-214**	**01-919-215**	**01-919-216**
Each	—	2094.35	2280.00	1215.00	1318.00	1570.00

Ohaus™ Adventurer™ Pro Precision Electronic Balances

Simple operation for basic weighing, with the accuracy and range to support more advanced applications

01-919-220

2100 to 8100g

Model	AV2102	AV3102	AV2101	AV4101	AV8101
Readability	0.01g	0.01g	0.1g	0.1g	0.1g
Weighing Range	0 to 2100g	0 to 3100g	0 to 2100g	0 to 4100g	0 to 8100g
Taring Range	0 to 2100g	0 to 3100g	0 to 2100g	0 to 4100g	0 to 8100g
Repeatability (Std. Deviation)	0.01g	0.01g	0.1g	0.1g	0.1g
Linearity	±0.02g	±0.02g	±0.2g	±0.2g	±0.2g
Stabilization Time	3 sec.	3 sec.	2 sec.	2 sec.	2 sec.
Pan Size	6.625 × 7.125" (16.8 × 18cm)	6.625 × 7.125" (16.8 × 18cm)	5.75 × 6.25" (14.9 × 16.2cm)	5.75 × 6.25" (14.9 × 16.2cm)	5.75 × 6.25" (14.9 × 16.2cm)
Pan Size (with InCal)	6.625 × 7.125" (16.8 × 18cm)	6.625 × 7.125" (16.8 × 18cm)	6.625 × 7.125" (16.8 × 18cm)	6.625 × 7.125" (16.8 × 18cm)	6.625 × 7.125" (16.8 × 18cm)
Dimensions (L × W × H)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	10 × 7.5 × 2.75" (25.4 × 19.3 × 7.2cm)	10 × 7.5 × 2.75" (25.4 × 19.3 × 7.2cm)	10 × 7.5 × 2.75" (25.4 × 19.3 × 7.2cm)
Dimensions (L × W × H), with InCal	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)	11.75 × 8.75 × 3.25" (30 × 22 × 8.5cm)
Net Weight	6.125 lb. (2.8kg)	6.125 lb. (2.8kg)	3.5 lb. (1.6kg)	3.5 lb. (1.6kg)	3.5 lb. (1.6kg)
Net Weight (with InCal)	6.875 lb. (3.2kg)	6.875 lb. (3.2kg)	7.75 lb. (3.5kg)	7.75 lb. (3.5kg)	7.75 lb. (3.5kg)
Electrical Reqts.	AC Adapter (included)	AC Adapter (included)	AC Adapter (included) or 4 "AA" batteries	AC Adapter (included) or 4 "AA" batteries	AC Adapter (included) or 4 "AA" batteries
Electrical Reqts. (with InCal)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)
Without InCal Internal Calibration					
Mfr. No.	80103875	80103910	AV2101	AV4101	AV8101
Cat. No.	**01-919-218**	**01-919-220**	**01-921-21**	**01-921-22**	**01-921-23**
Each	1712.00	1949.00	1084.00	1188.00	1311.00
With InCal Internal Calibration					
Mfr. No.	AV2102C	AV3102C	AV2101C	AV4101C	AV8101C
Cat. No.	**01-919-217**	**01-919-219**	**01-919-221**	**01-919-222**	**01-919-223**
Each	2050.00	2290.00	1221.00	1328.00	1385.14

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Ohaus™ Explorer™ Series Precision Balances

All-new Explorer balances deliver unequaled quality and dependability

01-920-239

Intelligent Performance

- Faster stabilization time improves operational efficiency, increases throughput and improves productivity
- Optimized linearity and repeatability specifications ensure accurate, repetitive results
- Superior vibration filtering provides balance stability in unstable environments
- Fully automatic AutoCal™ calibration system self-calibrates system when it senses a temperature change sufficient enough to affect weighing accuracy, or every 11 hours; external masses not required
- Four touchless sensors for hands-free print, tare, calibration and other selectable functions; prevent contamination and residue transfer, improve weighing efficiency
- Sensors can be set up for remote operations

Intuitive SmarText™ Graphical Software

- High-resolution, 5.7" (145mm) TFT display
- Resistive touch screen display
- 14 built-in customizable applications
- Minimum Weight capability with visual warning feature
- QWERTY keyboard and numeric keyboard to input GLP/GMP and other data
- User Manager with administrator capability
- Alternate RS232 (19-193-26) command feature adapts balance to existing data acquisition software
- External input for zero, tare or print using external foot switch accessory (19-193-28)
- Audible/visual feedback for button presses as well as check weighing status

Intuitive User Setup

- Easy-to-view illuminated level indicator at balance front
- Easy-to-use, adjustable thumbwheels level the balance
- Level-assist screen identifies thumbwheels to be adjusted
- Data Transfer Function for direct data output into Microsoft™ Excel™
- Instructional messaging guides users through the weighing process
- User information menu shows users available balance features
- Up to 11 operating languages available

WARRANTY: Two years (US and Canada)

CERTIFICATIONS:
CE, FCC, Industry Canada, cULus, cCSAus, NRTL; C Tick; CB Scheme

Specifications	
Weighing Units	Gram, Milligram, Kilogram, Carat, Ounce, Ounce Troy, Pound, Pennyweight, Grain, Newton, Momme, Mesghal, Hong Kong Tael, Singapore Tael, Taiwan Tael, Tical, Tola, Baht, 3 Custom Units
Calibration	AutoCal on Δ1.5°C temperature change, 11 hours, and external calibration
Tare Range	To capacity by subtraction
Power Requirements	AC adapter input: 100 to 240VAC, 0.6A, 50/60Hz
Display Type	Full-color VGA graphic display, 4-wire resistive touch screen
Display Size	5.7" (14.5cm), diagonal
Display Housing	7.7W × 3.5H × 6.0"D (19.5 × 9 × 15.4cm)
Communication Ports	RS232, USB
Operating Temperature Range	50° to 86°F (10° to 30°C)
Operating Humidity Range	15 to 80% at 87.8°F (31°C), decreasing linearly to 50% at 40°C, noncondensing
Storage Requirements	-14° to +140°F (-10° to +60°C) at 10 to 90% relative humidity, noncondensing

Capacity	Linearity	Readability	Repeatability Guarantee (std dev)	Repeatability Typical (std dev)	Platform Size	Mfr. No.	Cat. No.	Each
With Draft Sheild								
220g	±0.002g	220 × 0.001g	±0.001g	0.001g	5.1" dia. (130mm)	83021341	**01-920-235**	3240.64
420g	±0.002g	420 × 0.001g	±0.001g	0.001g	5.1" dia. (130mm)	83021342	**01-920-236**	3528.72
620g	±0.002g	620 × 0.001g	±0.001g	0.001g	5.1" dia. (130mm)	83021348	**01-920-237**	3854.24
1100g	±0.002g	1100 × 0.001g	±0.001g	0.0008g	5.1" dia. (130mm)	83021350	**01-920-238**	4664.40
With Wind Ring								
2200g	±0.02g	2200 × 0.01g	±0.01g	0.01g	7.08 x 8.26" (180 × 210mm)	83021356	**01-920-239**	3252.08
4200g	±0.02g	4200 × 0.01g	±0.01g	0.01g	7.08 x 8.26" (180 × 210mm)	83021357	**01-920-240**	3528.72
6200g	±0.02g	6200 × 0.01g	±0.01g	0.008g	7.08 x 8.26" (180 × 210mm)	83021360	**01-920-241**	3859.44
10,200g	±0.02g	10,200 × 0.01g	±0.01g	0.008g	7.08 x 8.26" (180 × 210mm)	83021362	**01-920-242**	4685.20
6200g	±0.1g	6200 × 0.1g	±0.1g	0.14g	7.08 x 8.26" (180 × 210mm)	83021361	**01-920-243**	3305.12
10,200g	±0.1g	10,200 × 0.1g	±0.0g	0.008g	7.08 x 8.26" (180 × 210mm)	83021365	**01-920-244**	3550.56

Ohaus™ Navigator™ NV Balances

Offer a combination of features, versatility and performance that fit a wide range of industrial, food and laboratory weighing applications

01-918-317

Two touchless sensors free up your hands for handling samples and limiting keypad wear and tear.

- Ultra-fast stabilization in less than one second
- Mechanical overload protection system and integrated shipping lock
- Up front illuminated level indicator
- Removable stainless steel weighing platform
- Menu lockswitch
- Integral security bracket and shipping lock
- Stability indicator
- Overload and underload indicators
- Low battery indicator and auto shut-off

Model	NV212	NV511	NV1101	NV2101	NV4101	NV5101
Capacity	210g	510g (1.1lb.)	1100g (2.4lb.)	2100g (4.6lb.)	4100g (9lb.)	5100g (11.2lb.)
Readability	0.01g	0.1g (0.0005lb.)	0.1g (0.0005lb.)	0.1g (0.0005lb.)	0.2g (0.0005lb.)	0.5g (0.002lb.)
Stabilization Time	<1 second	<1 second	<1 second	<1 second	<1 second	<1 second
Weighing Modes	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/ Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/ Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/ Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/ Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/ Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/ Totalize
Power	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)
Battery	4AA Batteries (not included)	4AA Batteries (not included)	4AA Batteries (not included)	4AA Batteries (not included)	4AA Batteries (not included)	4AA Batteries (not included)
Platform Size	190 × 138mm	190 x 138mm	190 × 138mm	190 x 138mm	190 × 138mm	190 × 138mm
Dimensions	8.4 × 8 × 2.3" (21.2 × 20.4 × 5.8cm)	8.4 × 8 × 2.3" (21.2 × 20.4 × 5.8cm)	8.4 × 8 × 2.3" (21.2 × 20.4 × 5.8cm)	8.4 × 8 × 2.3" (21.2 × 20.4 × 5.8cm)	8.4 × 8 × 2.3" (21.2 × 20.4 × 5.8cm)	8.4 × 8 × 2.3" (21.2 × 20.4 × 5.8cm)
Net Weight	3.1 lb. (1.4kg)	3.1 lb. (1.4kg)	3.1 lb. (1.4kg)	3.1 lb. (1.4kg)	3.1 lb. (1.4kg)	3.1 lb. (1.4kg)
Cat. No.	**01-918-317**	**01-918-318**	**01-918-319**	**01-918-320**	**01-918-321**	**01-918-322**
Mfr. No.	83033081	83033083	83033085	83033087	83033089	83033091
Each	318.24	217.36	282.88	368.16	405.60	446.16

Ohaus™ Navigator™ XL Balance

Ultrafast stabilization in less than one second provides fast, accurate and repeatable weighing results

01-918-311

Two touchless sensors free up your hands for handling samples and limiting keypad wear and tear.

- Superior mechanical overload protection system and integrated shipping lock
- Withstands loads up to 400% of its rated capacity
- Optional RS-232 or USB or ethernet interface kits with integrated cables
- Up front illuminated level indicator
- Removable stainless-steel weighing platform
- Menu lockswitch
- Integral security bracket and integral shipping lock
- Stability indicator, overload and underload indicators, low battery indicator, auto shut-off
- ABS plastic housing; 304 stainless steel pan

Model	NVL511/1	NVL1101/1	NVL2101/1	NVL5101/1	NVL10001/1	NVL20000/1
Capacity	510g (1.1 lb.)	1100g (2.4 lb.)	2100g (4.6 lb.)	5100g (11.2 lb.)	10000g (22 lb.)	20000g (44 lb.)
Readability	0.1g (0.0005 lb.)	0.1g (0.0005 lb.)	0.1g (0.0005 lb.)	0.5g (0.002 lb.)	1g (0.005 lb.)	1g (0.005 lb.)
Stabilization Time	<1 second	<1 second	<1 second	<1 second	<1 second	<1 second
Platform Size	194 × 203mm	194 × 203mm	194 × 203mm	194 × 203mm	194 × 203mm	194 × 203mm
Dimensions	8 x 8.3 × 2.3" (20.4 × 21.2 × 5.8cm)	8 × 8.3 × 2.3" (20.4 × 21.2 × 5.8cm)	8 x 8.3 × 2.3" (20.4 × 21.2 × 5.8cm)	8 × 8.3 × 2.3" (20.4 × 21.2 × 5.8cm)	8 x 8.3 × 2.3" (20.4 × 21.2 × 5.8cm)	8 x 8.3 x 2.3" (20.4 × 21.2 × 5.8cm)
Power	AC Adapter or Internal Rechargeable Battery (included)	AC Adapter or Internal Rechargeable Battery (included)	AC Adapter or Internal Rechargeable Battery (included)	AC Adapter or Internal Rechargeable Battery (included)	AC Adapter or Internal Rechargeable Battery (included)	AC Adapter or Internal Rechargeable Battery (included)
Battery	4 C Batteries (not included)	4 C Batteries (not included)	4 C Batteries (not included)	4 C Batteries (not included)	4 C Batteries (not included)	4 C Batteries (not included)
Weighing Modes	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize	Weighing, Percent Weighing, Parts Counting, Check Weighing, Display Hold, Accumulate/Totalize
Mfr. No.	83033058	83033062	83033066	83033070	83033074	83033078
Cat. No.	**01-918-311**	**01-918-312**	**01-918-313**	**01-918-314**	**01-918-315**	**01-918-316**
Each	514.80	561.60	608.40	585.52	678.70	655.20

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Ohaus™ Pioneer™ Precision Balances

An excellent balance for routine weighing in lab, industrial and education applications

Selectable environmental settings, three filter modes and adjustable zero tracking make the Pioneer ideal for slow filling applications where sensitivity is a must.

- Single-line LCD; no backlight
- Three-button panel with dedicated and number functions
- RS-232 bidirectional interface
- Up-front level indicator — no need to look in back of balance during leveling process
- Work well in harsh environments; settings can be adjusted to compensate for vibrations and other disturbances
- Calibration lockout
- Security loop in rear of balance
- Communications software, SW12W
- Weighing modes include weighing, parts counting and percent weighing

INCLUDES: AC adapter

WARRANTY: Two years (U.S. and Canada)

CERTIFICATIONS: FCC, CE

01-918-303

Capacity	Mfr. No.	Cat. No.	Each
150g	80251562/RM	**01-918-303**	1290.64
310g	80251621/RM	**01-918-304**	1466.40
1500g	80251572/RM	**01-918-306**	1290.64
3100g	80251623/RM	**01-918-307**	1471.60
4100g	80251575/RM	**01-918-308**	959.92

Ohaus™ Ranger™ Compact Scales

Precise, fast industrial bench scales in rugged cast-aluminum housings

Include enhanced high-speed microprocessor technology for fast and accurate reading.

- High-performance strain gauge loadcells encased in tough, painted cast-aluminum housing
- Weigh in., lb., oz., kg, g or metric tonne units
- Large, backlit LCD display
- Dynamic weighing software included
- 1:30,000 default resolution
- RS-232 interface included
- Stainless-steel weighing pan
- Built-in AC with hardwired plug; factory installed NiMH battery optional

01-930-013

Capacity	6.6 lb. (3kg)	13.22 lb. (6kg);	26.4 lb. (12kg)	66.1 lb. (30kg)	132.2 lb. (60kg)
Readability	0.0002 lb. (1g)	0.0005 lb. (0.2g)	0.001 lb. (0.5g)	0.002 lb. (1g)	0.005 lb. (2g)
Stabilization Time	≤2 seconds	≤2 seconds	≤2 seconds	≤2 seconds	≤2 seconds
Platform Size	240 × 200mm	240 × 200mm	350 x 240mm	350 x 240mm	350 × 240mm
Dimensions (L × W × H)	10.3 × 13.1 × 3.9" (26.5 × 33.5 × 10cm)	10.3 × 13.1 × 3.9" (26.5 × 33.5 × 10cm)	14 × 14.4 × 4.5" (36 × 37 × 11.5cm)	14 × 14.4 × 4.5" (36 × 37 × 11.5cm)	14 × 14.4 × 4.5" (36 × 37 × 11.5cm)
Power	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)	AC Adapter (included)
Battery	Rechargeable NiHM (optional)	Rechargeable NiHM (optional)	Rechargeable NiHM (optional)	Rechargeable NiHM (optional)	Rechargeable NiHM (optional)
Net Weight	12 lb. (5.1kg)	12 lb. (5.1kg)	20 lb. (8.9kg)	20 lb. (8.9kg)	20 lb. (8.9kg)
Weighing Modes	Weighing, Dynamic Weighing	Weighing, Dynamic Weighing	Weighing, Dynamic Weighing	Weighing, Dynamic Weighing	Weighing, Dynamic Weighing
Mfr. No.	80252624	80252625	80252626	80252627	80252628
Cat. No.	**01-930-011**	**01-930-012**	**01-930-013**	**01-930-014**	**01-930-015**
Each	1051.00	1036.00	1196.00	1363.00	1363.00

Ohaus™ Scout™ Pro Series Electronic Toploading Balances

Economical, portable balance with a large, crisp display that allows users to clearly view results from any angle

Simple, two-button keypad provides for weighing with minimal instruction.

Standard Features

- Enhanced user interface
- Menu system is easy to use, with no cryptic code numbers to input
- Weighing units can be changed with a touch of a button; include grams, kilograms, ounces, pounds, combined pound:ounce display, troy ounces and pennyweight

Advanced Features

- Enhanced parts counting with average piece weight recalculation
- Totalization for summing sample weights, allowing repeated summation to the limit of the display — not just the capacity of the balance
- Percent weighing allows the comparing of sample weights to a reference weight
- Display hold for weighing large packages
- Below-balance weighing with integral weigh-below hook for density determination
- Interfaces (choice of USB or RS-232) are easy-to-install accessories — balance can be upgraded any time after purchase

Design

- Large stainless-steel weighing platform
- High-contrast LCD readout
- Overload and underload indicators
- Low-battery indicator
- Sealed front panel and molded spill ring protect the balance during use
- Includes integral security bracket
- Integral shipping lock protects the weighing mechanism during transportation
- Physical lockswitch allows balance to be locked into a specific configuration, reducing operator error

Scout Pro

INCLUDES: AC adapter; span calibration mass included on 200g, 400 and 600g models

REQUIRES: Four AA batteries

WARRANTY: Two-year (U.S. and Canada)

	Round Platform			*Square Platform*				
Model	**SP202**	**SP402**	**SP401**	**SP601**	**SP2001**	**SP4001**	**SP6000**	**SP6001**
Readability	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1.0g	0.1g
Weighing Range	0 to 200g	0 to 400g	0 to 400g	0 to 600g	0 to 2000g	0 to 4000g	0 to 6000g	0 to 6000g
Taring Range (By Subtraction)	0 to 200g	0 to 400g	0 to 400g	0 to 600g	0 to 2000g	0 to 4000g	0 to 6000g	0 to 6000g
Repeatability	0.01g	0.01g	0.1g	0.1g	0.1g	0.1g	1.0g	0.1g
Linearity	±0.01g	±0.01g	±0.1g	±0.1g	±0.1g	±0.1g	±1.0g	±0.1g
Stabilization Time	3 sec.	3 sec.	3 sec.	3 sec.	3 sec.	3 sec.	3 sec.	3 sec.
Pan Size	4.75" (12cm)	4.75" (12cm)	4.75" (12cm)	6.5 × 5.5" (16.5 × 14cm)	6.5 × 5.5" (16.5 × 14cm)	6.5 × 5.5" (16.5 × 14cm)	6.5 × 5.5" (16.5 × 14cm)	6.5 × 5.5" (16.5 × 14cm)
Dimensions (L × W × H)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)	8.25 × 7.5 × 2.125" (21 × 19.2 × 5.4cm)
Net Weight	1.5 lb. (0.7kg)	1.5 lb. (0.7kg)	1.75 lb. (0.8kg)	1.75 lb. (0.8kg)	1.75 lb. (0.8kg)	1.75 lb. (0.8kg)	1.75 lb. (0.8kg)	1.75 lb. (0.8kg)
Electrical Reqts.	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries	120V 50/60Hz or 4 "AA" batteries
Mfr. No.	30064412	30064413	30064414	30064415	30064416	30064417	30064418	30064420
Cat. No.	**01-921-10**	**01-921-11**	**01-921-12**	**01-921-13**	**01-921-14**	**01-921-15**	**01-921-16**	**01-922-16**
Each	470.37	655.01	255.73	377.26	472.20	704.14	398.67	810.58

Ohaus™ Scout™ Pro SP602 Portable Balance

Simple two-button operation with four application modes: specific gravity, totalization, percent weighing and display hold

- High-contrast, six-digit, LCD display
- Capacity: 600 × 0.01g
- Operating Temperature Range: 50° to 104°F (10° to 40°C)
- Two weighing units: Newtons and kilograms
- Density/Specific Gravity determination with integrated weigh below hook or toploading kit
- Integral security bracket and software lock-down switch
- Sealed front panel, molded spill ring and removable stainless-steel platforms
- Programmable energy-saving auto shutoff
- Power Requirements: AC Adapter (included) or (4) AA batteries (not included)
- Easy-to-install optional USB or RS-232 interface accessory available (cable included)

01-922-15

ORDERING INFORMATION:
Dimensions: 7.5 × 2.13 × 8.3" (19.2 × 5.4 × 21cm).
Weight: 1.8 lb. (0.8kg)

Model	Mfr. No.	Cat. No.	Each
SP602	30064419	**01-922-15**	769.58

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Cubis™ MSA Toploader Balances

Ideal for use in regulated areas in the pharmaceutical industry

MSA Toploader Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

14-557-276

MSA Display and Control Unit

- Top-of-the-line technology with outstanding operating convenience and display quality, especially for complex applications
- Tiltable and removable touchscreen featuring a high-resolution color TFT for brilliant reproduction of text and graphics
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions
- Fully personalized application add-ons and upgrades enable faster and more efficient work and enhance process reliability (Q-Apps)

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Initial Weight†	Mfr. No.	Cat. No.	Each
No Draft Shield (D0) / Automatic Motorized Leveling									
1202S	1200g	10mg	7mg	20mg	0.8s	12g	MSA1202S-100-D0	**14-557-284**	4500.00
2202S	2200g	10mg	7mg	20mg	0.8s	12g	MSA2202S100D0	**14-557-026**	4850.00
4202S	4200g	10mg	7mg	20mg	0.8s	12g	MSA4202S100D0	**14-557-027**	5200.00
6202S	6200g	10mg	7mg	20mg	1s	12g	MSA6202S100D0	**14-557-028**	5800.00
6202P	1500g/3000g/6200g	10/20/50mg	7/20/40mg	50mg	1s	12g	MSA6202P-100-D0	**14-557-279**	5350.00
5201S	5200g	100mg	50mg	100mg	0.8s	100g	MSA5201S-100-D0	**14-557-287**	3950.00
No Draft Sheild (D0) / Guide-Assisted Leveling									
8202S	8200g	10mg	7mg	20mg	1s	12g	MSA8202S000D0	**14-557-029**	6400.00
10202S	10200g	10mg	7mg	20mg	1s	12g	MSA10202S-000-D0	**14-557-276**	7200.00
14202S	14200g	0.01g	0.01g	0.02g	1s	15g	MSA14202S-000-D0	**14-557-274**	8550.00
14202P	3500g/7000g/14200g	10/20/50mg	0.01g	0.02g	1s	15g	MSA14202P-000-D0	**14-557-275**	7550.00
12201S	12200g	100mg	50mg	100mg	0.8s	100g	MSA12201S-000-D0	**14-557-285**	5340.00
Stainless Steel Draft Shield, removable to make flat (DR) / Automatic Motorized Leveling									
5202S	5200g	10mg	6mg	10mg	0.8s	10g	MSA5202S-100-DR	**14-557-281**	6250.00

† According to United States Pharmacopeia Chapter 41.

Sartorius™ Cubis™ MSE Toploader Balances

For users who need to weigh with the highest accuracy, but have lower needs in terms of complexity of a weighing process and data management

MSE Toploader Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

14-557-376

MSE Display and Control Unit

- Large, high-contrast LCD with clearly structured keys for precise activation of functions
- Easy-to-understand menu guidance with short text prompts
- Comes standard with built-in USB and 25-pin RS232C communication interfaces
- Perfect for users who need to weigh with the highest accuracy, but who have less complex application/communication requirements

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5°C to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
No Draft Shield									
10202S	10200g	10mg	7mg	20mg	0.8s	12g	MSE10202S-000-D0	**14-557-376**	5700.00
1202S	1200g	10mg	7mg	20mg	0.8s	12g	MSE1202S-100-D0	**14-557-384**	3190.00
12201S	12200g	100mg	50mg	100mg	0.8s	100g	MSE12201S-000-D0	**14-557-385**	4050.00
14202P	3000g/6200g/142000g	10/20/50mg	0.01g	0.02g	1s	12g	MSE14202P-000-D0	**14-557-375**	6050.00
14202S	14200g	0.01g	0.01g	0.02g	1s	12g	MSE14202S-000-D0	**14-557-374**	7120.00
2202S	2200g	10mg	7mg	20mg	1s	12g	MSE2202S-100-D0	**14-557-383**	3430.00
4202S	4200g	10mg	7mg	20mg	1s	12g	MSE4202S-100-D0	**14-557-382**	3810.00
5201S	5200g	100mg	50mg	100mg	0.8s	100g	MSE5201S-100-D0	**14-557-387**	2530.00
6202P	1500g/3000g/6200g	10/20/50mg	7/20/40mg	50mg	0.8s	12g	MSE6202P-100-D0	**14-557-379**	4050.00
6202S	6200g	10mg	7mg	20mg	0.8s	12g	MSE6202S-100-D0	**14-557-378**	4310.00
8201S	8200g	100mg	50mg	100mg	0.8s	100g	MSE8201S-000-D0	**14-557-386**	3420.00
8202S	8200g	10mg	7mg	20mg	0.8s	12g	MSE8202S-000-D0	**14-557-377**	4940.00
Removable, Flat Stainless-Steel Draft Shield									
5202S	5200g	10mg	6mg	10mg	0.8s	12g	MSE5202S-100-DR	**14-557-381**	4750.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Cubis™ MSU Toploader Balances

Combines classic key-operated control with the widest range of performance features

14-557-326

MSU Toploader Balances are part of the Cubis modular equipment series, which incorporates a precisely-machined second generation monolithic weigh cell for increased accuracy and ultra-fast response for quick results with outstanding repeatability. Cubis is the first and only balance to automatically check, perform and document its exact leveling. It also allows customization to meet specific laboratory applications to fulfill the most stringent requirements in addition to the ability to choose the weighing module and draft shield to allow a user to invest in only what is necessary.

MSU Display and Control Unit

- Tiltable and removable large, high-resolution monochrome graphic display
- Key operation; positive click action and precise activation of functions
- Combines classic key-operated control with a wide range of performance features
- Comes standard with built-in USB, 25-pin RS232C and Ethernet communication interfaces as well as integrated SD card reader for data storage and convenient data transfer
- Q-Guide: Novel, wizard-supported user/task management for easy operation and programming
- Ensure safety and reliability of results with Advanced Pharma Compliance via user/password management, audit trail function, alert messages and reminder functions

Specifications	
Power Supply	100-240V, -15%/+10%, 50-60Hz, 1.0A
Input Voltage	15 VDC, ±5 %
Power Consumption	7w (max.)
Ambient Temperature	Operation +5° to +40°C
Highest Relative Humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity for 40°C
Safety of Electrical Equipment	According to EN 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use; Part 1: General requirements
Defined Immunity to Interference	Suitable for use in industrial areas
Interference Emission	Class B (suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings)

Model No.	Weighing Capacity	Readability	Repeatability (≤±)	Linearity (≤±)	Stabilization Time (≤)	Min. Sample Weight	Mfr. No.	Cat. No.	Each
No Draft Shield									
10202S	10200g	10mg	7mg	20mg	0.8s	12g	MSU10202S-000-D0	**14-557-326**	6700.00
1202S	1200g	10mg	7mg	20mg	0.8s	12g	MSU1202S-100-D0	**14-557-334**	4000.00
12201S	12200g	100mg	50mg	100mg	0.8s	100g	MSU12201S-000-D0	**14-557-335**	4800.00
14202P	3000g/6200g/142000g	10/20/50mg	0.01g	0.02g	1s	12g	MSU14202P-000-D0	**14-557-325**	7050.00
14202S	14200g	0.01g	0.01g	0.02g	1s	12g	MSU14202S-000-D0	**14-557-324**	8050.00
2202S	2200g	10mg	7mg	20mg	1s	12g	MSU2202S-100-D0	**14-557-333**	4350.00
4202S	4200g	10mg	7mg	20mg	1s	12g	MSU4202S-100-D0	**14-557-332**	4700.00
5201S	5200g	100mg	50mg	100mg	0.8s	100g	MSU5201S-100-D0	**14-557-337**	3450.00
6202P	1500g/3000g/6200g	10/20/50mg	7/20/40mg	50mg	0.8s	12g	MSU6202P-100-D0	**14-557-329**	4850.00
66202S	6200g	10mg	7mg	20mg	0.8s	12g	MSU6202S-100-D0	**14-557-328**	5300.00
8201S	8200g	100mg	50mg	100mg	0.8s	100g	MSU8201S-000-D0	**14-557-336**	4400.00
8202S	8200g	10mg	7mg	20mg	0.8s	12g	MSU8202S-000-D0	**14-557-327**	5900.00
Removable, Flat Stainless Steel Draft Shield									
5202S	5200g	10mg	6mg	10mg	0.8s	12g	MSU5202S-100-DR	**14-557-331**	5750.00

Sartorius™ Practum™ Topload Weighing Balances

Consistent readings with outstanding repeatability

Practum Series

Innovative housing design and rugged weigh cell for easy weighing. Outstanding connectivity when transferring results to Microsoft™ Excel™ spreadsheet or printer YDP40.

- Pay only for what you actually need
- Obtain professional results with a world-class weighing instrument
- Consistent readings with outstanding repeatability and overload protection for many years of reliability
- Supervisor lock prevents unintentional changes to the settings
- Transfer data from balance to printer or computer quickly and easily with plug and play technology
- Sturdy draft shield withstands rigorous weigh routines, by multiple users
- Instrument can be completely disassembled for convenient cleaning

Specifications:

- Level control: Glass level indicator with air bubble for centering
- Calibration: External
- Weighing units: g,ct, om, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Tamper protection: Supervisor lock
- Language selection: English, French, Spanish
- Theft lock: Kensington lock or Lockdown with cable or chain
- Weigh below: Yes
- Output: Mini-USB
- Power: 100 to 240V (universal)

INCLUDES: Universal power adapter, USB data cable, in-use cover, application guide

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Price
610g	0.01g	0.01g	0.03g	7" (180mm)	PRACTUM612-1S	**14-557-425**	1100.00
1100g	0.01g	0.01g	0.03g	7" (180mm)	PRACTUM1102-1S	**14-557-426**	1200.00
2100g	0.01g	0.01g	0.03g	7" (180mm)	PRACTUM2102-1S	**14-557-427**	1400.00
5100g	1.0g	0.5g	1.0g	7" (180mm)	PRACTUM5100-1S	**14-557-429**	750.00
5100g	0.1g	0.1g	0.3g	7" (180mm)	PRACTUM5101-1S	**14-557-428**	1200.00

Sartorius™ Quintix™ Topload Weighing Balances

Advanced weighing technology provides reliable and accurate results

Quintix Series

Offer smart and efficient weighing, improved workflows with touch-screen and scroll technology which enables user to easily navigate through all balance operations without a manual.

- Save time and improve workflow with simple menu navigation and integrated applications at the touch of a key
- Clearly visible icons provide easy-to-follow balance operations; displayed results give users immediate feedback and confidence
- Maximum accuracy all the time, thanks to isoCAL™; fully automatic internal calibration and balance adjustment
- Record keeping is easier with Quintix USB "plug and work" connectivity to a printer or computer

Specifications:

- Level control: Glass level indicator with air bubble for centering
- Calibration: Internal, fully automatic, motorized calibration and adjustment with configurable action level; also offers external
- Weighing units: g, ct, mom, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Stability indicator: Yes
- Tamper protection: Supervisor lock
- Housing protection: Acetone cleanable housing
- Verified models: Yes
- Language selection: English, French, Spanish
- Theft lock: Kensington lock and lockdown capability for cable or chain
- Output: Mini-USB
- Power: 100 to 240V (universal)

INCLUDES: Universal power adapter, in-use cover, application guide

NOTES: USB Cables can be purchased separately (cat. no. 14-558-112 or 14-558-111)

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Price
610g	0.01g	0.01g	0.03g	7" (180mm)	QUINTIX612-1S	**14-557-414**	1500.00
1100g	0.01g	0.01g	0.03g	7" (180mm)	QUINTIX1102-1S	**14-557-418**	1700.00
2100g	0.01g	0.01g	0.03g	7" (180mm)	QUINTIX2102-1S	**14-557-415**	1900.00
3100g	0.01g	0.01g	0.02g	7" (180mm)	QUINTIX3102-1S	**14-557-416**	2100.00
5100g	1.0g	1.0g	2.0g	7" (180mm)	QUINTIX5100-1S	**14-557-420**	1200.00
5100g	0.1g	0.1g	0.3g	7" (180mm)	QUINTIX5101-1S	**14-557-419**	1500.00
5100g	0.01g	0.01g	0.02g	7" (180mm)	QUINTIX5102-1S	**14-557-417**	2600.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Secura™ Topload Weighing Balances

Easy, reliable weighing in regulated work areas

Designed for customers who work in regulated environments and need high quality results without any risk. Secura ensures the quality of the measurement results, compliance with regulatory requirements and work flow efficiency improvement.

- Weigh without risk: Data transfer to a printer or a computer is blocked when most common operating errors occur
- Feature Level Control – an optoelectronic level monitoring, alarm messaging and interactive user support feature
- Programmed SQmin in the balance allows active monitoring of the USP minimum sample weight requirement
- IsoCAL™ provides internal fully automatic, motorized calibration and adjustment function with configurable action level
- Cal Audit Trail provides traceable documentation of all calibration and adjustment data inside the balance
- GLP-compliant printouts with proper time and date stamps, with Sartorius GLP printer YDP30
- Password protection prohibits unauthorized changes of weighing settings
- Innovative housing design allows easy cleaning for thorough results
- Optimized draft ring and Level Control for working in laminar air flow environments

14-557-408

Specifications:

- Calibration: isoCAL internal calibration; also offers external
- Safety level: Configurable in three levels
- Weighing units: g, ct, mom, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Stability indicator: Yes
- Housing protection: Acetone cleanable housing
- Verified models: Yes
- Language selection: English, French, Spanish
- Theft lock: Kensington lock and lockdown capability for cable or chain
- Output: Mini-USB
- Power: 100 to 240V (universal)

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Each
1100g	0.01g	0.01g	0.02g	7" (180mm)	SECURA1102-1S	**14-557-405**	2200.00
2100g	0.01g	0.01g	0.02g	7" (180mm)	SECURA2102-1S	**14-557-406**	2600.00
3100g	0.01g	0.01g	0.02g	7" (180mm)	SECURA3102-1S	**14-557-407**	2800.00
5100g	0.01g	0.01g	0.02g	7" (180mm)	SECURA5102-1S	**14-557-408**	3200.00

Sartorius™ Secura™ Precision Weighing Balances

Easy, reliable weighing in regulated work areas

Specifications:

- Calibration: isoCAL internal automatic calibration; also offers external
- Safety level: Configurable in three levels
- Weighing units: g, ct, mom, kg, lb, oz, ozt, tlh, tls, tlt, GN, dwt, mg, parts/lb, tlc, Kt, tol, bat, MS, N
- Stability indicator: Yes
- Housing protection: Acetone cleanable housing
- Verified models: Yes
- Language selection: English, French
- Theft lock: Kensington lock and lockdown capability for cable or chain
- Output: Mini-USB
- Power: 100 to 240V (universal)

INCLUDES:
Universal power adapter, USB data cable, in-use cover, application guide

14-557-402 to 14-557-404

Capacity	Readability	Repeatability	Linearity	Pan Size	Mfr. No.	Cat. No.	Each
210g	0.001g	0.001g	0.002g	4.75" (120mm)	SECURA213-1S	**14-557-402**	2270.00
310g	0.001g	0.001g	0.002g	4.75" (120mm)	SECURA313-1S	**14-557-403**	2450.00
510g	0.001g	0.001g	0.002g	4.75" (120mm)	SECURA513-1S	**14-557-404**	3100.00

Before You Buy **Moisture Analyzers**

Methods to determine moisture content:

- Conventional oven method – Using an oven to remove moisture is a slow, non-portable, expensive process and requires the use of a balance. The process of transferring a sample from inside an oven onto a balance can introduce moisture regain, thus skewing measurement accuracy. Test documentation requires manual calculations, creating chance for human error.
- Infrared thermogravimetric moisture analyzers are faster and more economical than the oven method as they combine an infrared heating element and a precision balance within a single housing that weighs and dries the sample, then calculates the results.
- Halogen thermogravimetric moisture analyzers have all of the attributes of infrared moisture analyzers, but offer much quicker and more precise heating and drying control. Using a more advanced moisture analyzer allows users to precisely set heating and shutoff parameters and automatically document and print the results when complete (GLP compliant).

Features To Look For:

- **Readability and Repeatability** – Readability is the smallest measurement increment that the analyzer can read. Repeatability is the closeness of repeated results carried out in identical conditions.
- **Shutoff Criteria** – Common choices include automatic, pre-set time, or manual shutoff. Automatic shutoff works best when time and efficiency are critical.
- **Heating Profiles** – The more flexible the heating, the quicker you can test your sample. Different heating criteria are: Fast – For quickest possible time to temperature. Standard – For minimal overshoot while achieving temperatures quickly. Ramp – For controlled ramping to temperatures for more volatile samples. Step – Set three temperatures for difficult samples like those that form skins or burn easily.
- **Test Libraries** – An integrated test database is a great feature to have; it will save time and eliminate chance for error when testing multiple unique samples
- **Easy Cleaning** – Moisture analyzers operate under extreme conditions; ease of cleaning and high durability are vital.

	MB23	MB25	MB35	MB45
% READABILITY	0.1%	0.05%	0.02%	0.01%
READABILITY (g)	0.01	0.005	0.002	0.001
HEAT SOURCE AND HEATING PROFILE	Infrared coil, Std.	Halogen lamp, Std.	Halogen lamp with gold reflective backing, Std.	Halogen lamp with gold reflective backing, Std., Fast, Ramp, Step
REPEATABILITY 10G (%)	0.2%	0.05%	0.02%	0.015%
SHUTOFF CRITERIA	Manual, timed or auto	Manual, timed or auto	Manual, 1-120 min., 30-sec. and one minute incr. or auto	Manual, custom, pre set 1-120 minutes in 10-second incr. or auto
DISPLAY RESULTS	% moisture, % solids, actual wt.	% moisture, % solids, actual wt.	% moisture, % solids, actual wt.	% moisture, % solids, % regain, time, temp, wt., test ID, drying curve and statistics

Moisture

METTLER TOLEDO™ MJ33 Moisture Analyzer

Offers rugged design, basic functionality and simple operation for daily routine inspection

01-919-568

Automatic end-point determination omits the need for programming the switch-off criterion.

- Simple to use
- Reliably determines the moisture content of a sample to check if it meets specifications
- Two metal heating elements dry the sample and deliver reliable results
- Information on the compact display is limited to the key data. Icons guide the operator
- Particularly well suited for use on the factory floor, e.g., during goods-in inspection

Specifications	
Temperature range	50 - 160°C (122 - 320°F)
Readability moisture content	0.01%
Minimum sample weight	0.5g
Maximum sample weight	35g
Readability	1mg
Temperature adjustment	Intervals of 1°C
Results	Moisture and dry content in %, dry content in g, ATRO Dry, ATRO Wet
Drying programs	1 (standard)
Switch-off criteria	Fully automatic, manual, time controlled
Repeatability (s) (2g sample)	±0.15%
Repeatability (s) (10g sample)	±0.05%
Languages	English, French, German, Italian, Spanish, Portuguese, Japanese, Russian
Interface	RS-232-C
Display	LCD back-lit, blue on white background
Printer	External
Dimensions	14.1D × 9W × 5.9"H (360 × 230 × 150mm)
Weight, ready to measure	4.3kg

Description	Mfr. No.	Cat. No.	Each
Infrared Moisture Analyzer	11121810	**01-919-568**	3431.00

Ohaus™ Basic Moisture Analyzers

High-value performance for all budgets

01-920-230

Choice of infrared or halogen heating, with precisions of 0.1% and 0.05%.

- Large backlit LCD display and standard RS-232 port
- Easy-to-clean heating chambers ideal for frequent use and inexpensive maintenance
- Compact footprint designed to take up less space

Model MB23

- Heating Technology: Infrared (no glass)
- Repeatability (Std. Dev.) (g): 0.3% (3g sample); 0.2% (10g sample)

Model MB25

- Heating Technology: Halogen
- Repeatability (Std. Dev.) (g): 0.2% (3g sample); 0.05% (10g sample)

Specifications	
Weighing Range	0 to 110g
Heating Range	0° to 223°F (0° to 160°C)
Environment Operating Range	41° to 104°F (5° to 40°C)
Timer Range	1 to 99 min., 30 sec. increments
Results Display	% moisture or % solids or weight (g), temperature, time
Sample Size	3 to 20g typical, 0.5g min
Pan Size	3.5" (90mm)
Dimensions (L × W × H)	11 × 6.5 × 5" (28 × 17 × 13cm)
Electrical Requirements	100 to 240VAC, 50/60Hz
Weight	5 lb. (2.3kg)

Model	Readability	Mfr. No.	Cat. No.	Each
MB23	0.01g/0.1%	83999801	**01-920-230**	2960.00
MB25	0.005g/0.05%	83999803	**01-920-231**	3530.00

Ohaus™ Standard Moisture Analyzers

Full-featured, compact analyzers heat up quickly and uniformly

Ideal for environmental, quality control, food and beverage, chemical and pharmaceutical testing. Two models available for basic or advanced operation.

- Fast halogen heat source for fast heatup — 40% faster than traditional infrared
- Gold reflective housing for uniform heat distribution

Model MB45

- Advanced performance plus customizable, time-saving software
- Readability of 0.001g on samples up to 45g, over a 0.01% to 100% moisture range
- Built-in software expands capabilities for greater accuracy and ease of use, as well as data storage and management; allows temperatures to be controlled in 1°C increments from 50° to 200°C
- Integrated database stores/recalls up to 50 drying procedures and allows statistical analysis of data
- Display text in choice of five languages (English, Spanish, French, German, Italian)
- Results can be viewed as % moisture, % solids, time, temperature, weight, test ID and also as a real-time drying curve
- Perform timed tests or use four enhanced heating options:
  - "Fast" (quickest time to reach temperature)
  - "Standard" (minimal overshoot while quickly attaining temperature)
  - "Ramp" (controlled ramping to temperature)
  - "Step" (set three temperatures for difficult samples)
- Four switch-off criteria include manual, timed, auto (weight loss per unit of time), and auto free (user-defined weight loss per unit of time)

Model MB35

- Heats up to 160°C in less than one minute
- Readability of 0.005g (0.05% moisture) on samples up to 35g, over a 0.05% to 100% moisture range
- Temperature can be controlled in 5°C increments from 50° to 160°C
- Display text shows moisture, time, temperature and weight in a choice of three languages (English, Spanish, French)

WARRANTY:
Two years

01-920-115

NOTES:
Both models offer a GLP-compliant format when printed results are required and have RS-232 port for connection to computer or optional printer (02-112-98; contact your Fisher Scientific Customer Service Representative for ordering information).

Model	MB45	MB35
Weighing Range	0 to 45g	0 to 35g
Minimum Sample Weight	0.5g	0.5g
Readability	0.001g/0.01%	0.005g/0.05%
Repeatability (Std. Deviation)	0.05% (3g sample); 0.015% (10g sample)	0.18% (3g sample); 0.05% (10g sample)
Taring Range (By Subtraction)	0 to 45g	0 to 35g
Stabilization Time	3 sec.	3 sec.
Moisture Range	0.01 to 100% (0.01 to 1000% for regain mode)	0.05 to 100%
Temperature Range	50° to 200°C in 1°C increments (122° to 392°F)	50° to 160°C in 5°C increments (122° to 320°F)
Operating Temperature Range	10° to 40°C (50° to 104°F)	10° to 40°C (50° to 104°F)
Timer Range	1 to 120 min., 10 sec. increments	1 to 120 min., 30 sec. to 60 min. increments
Pan Size	3.54" (9.0cm)	3.54" (9.0cm)
Dimensions (L × W × H)	14 × 7.50 × 6" (36 × 19 × 15.2cm)	14 × 7.50 × 6" (36 × 19 × 15.2cm)
Electrical Requirements	100-120, 220-240VAC 50/60Hz	100-120, 220-240VAC 50/60Hz
Mfr. No.	30079284	30079286
Cat. No.	**01-920-62**	**01-920-115**
Each	4720.00	4108.39

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Accessories

Fisherbrand® Disposable Aluminum Dishes with Fluted Sides

Useful as evaporating and general utility dishes

Larger sizes are ideal for food processing applications.

- Inexpensive enough for single use
- Made of lightweight aluminum
- Flat bottoms
- Fluted or slightly fluted sides
- Flanged rims

08-732-108

Capacity	Bottom I.D.	Top I.D.	Depth	Cat. No.	Pack of	Case of
Fluted Sides						
75mL	1.83" (4.6cm)	2.44" (6.2cm)	1.22" (3.1cm)	**08-732-107**	100/50.21	10 Pk./358.62
200mL	3.03" (7.7cm)	4.29" (10.9cm)	1.22" (3.1cm)	**08-732-108**	50/33.07	----
500mL	5.39" (13.7cm)	7.09" (18cm)	1.02" (2.6cm)	**08-732-109**	50/38.96	----
Slightly Fluted Sides						
60mL	2.32" (5.9cm)	2.52" (6.4cm)	0.75" (1.9cm)	**08-732-106**	100/53.75	12 Pk./496.13

Fisherbrand® Aluminum Weighing Dishes

Aluminum dishes for weighing and dispensing

- Also can serve as evaporating dishes or dust covers
- Lightweight, yet sturdy
- Convenient finger-grip handle can be etched prior to weighing for identification
- Lightweight dishes with flanged rims
- Slightly sloping sides facilitate stacking
- Especially useful for materials that cannot easily be cleaned from dish surface

08-732-100 through -104

Capacity	Bottom I.D. × Top I.D.	Depth	Cat. No.	Pack of	Case of
With Fluted Sides					
20mL	1.72 × 2" (4.4 × 5.2cm)	0.53" (1.3cm)	**08-732-100**	100/40.87	10 Pk./314.41
42mL	2 × 2.42" (5.1 × 6.2cm)	0.67" (1.7cm)	**08-732-101**	144/44.64	56 Pk./1785.64
85mL	2.69 × 3" (6.9 × 7.7cm)	0.63" (1.6cm)	**08-732-102**	100/66.16	10 Pk./508.94
With Smooth Sides					
70mL	2.66 × 2.83" (6.82 × 7.26cm)	0.675" (1.73cm)	**08-732-103**	100/72.18	10 Pk./555.21
150mL	3.74 × 3.98" (9.6 × 10.2cm)	0.77" (2cm)	**08-732-104**	100/86.08	10 Pk./662.12

Fisherbrand® Hexagonal Polystyrene Weighing Dishes

Design provides greater balance, protection and safety

For handling solids or liquids during weighing.

- Bend easily into pouring spouts to enable nonspill transfer
- Flat bottoms and sloping sides with 0.187" (4.8mm) inside corner radius ensure complete transfer
- Do not react to most substances
- Disposable
- Stack compactly for convenient storage and accessibility

ALERTS:
Not for use over 90°C.

Fisherbrand Hexagonal Weighing Dishes

Bottom I.D.	Top I.D.	Depth	Approx. Weight	Cat. No.	Pack of	Case of
0.9" (2.4cm)	1.4" (3.6cm)	0.375" (0.95cm)	0.02 oz. (0.6g)	**02-202-100**	500/118.52	8 Pk./729.38
3.6" (9.2cm)	5.1" (13.2cm)	1.25" (3.2cm)	0.25 oz. (7.1g)	**02-202-103**	500/386.40	4 Pk./1188.93

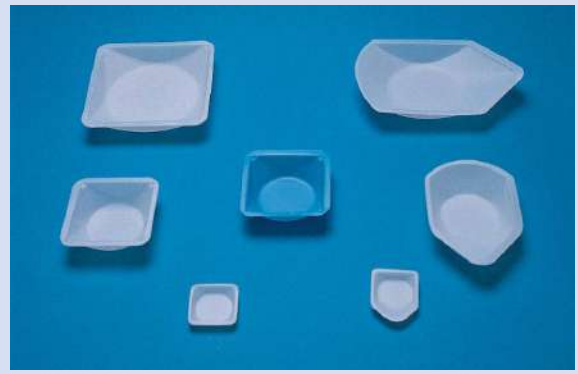
Fisherbrand® Polystyrene Antistatic Weighing Dishes

Disposable dishes are ideal for weighing, dispensing or storing applications

Ideal for weighing static-affected materials.

- Contaminant-free, antistatic, biologically inert
- Resist dilute acids, aqueous solutions, alcohols and bases
- Flat bottoms resist tipping
- Made from 12mil thick polystyrene — 20% thicker than most dishes on the market today — for better strength, stability and handling ease
- Pour boats feature a molded spout for convenient pouring and dispensing

ALERTS:
Not for use over 90°C.



08-732-112 through -118

L × W × H	Bottom I.D.	Color	Cat. No.	Pack of
Standard Style				
1.62 × 1.62 × 0.312" (4.12 × 4.12 × 0.79cm)	1.4" (3.6cm)	Natural	**08-732-112**	500/111.07
3.5 × 3.5 × 1" (8.12 × 8.12 × 2.54cm)	2.4" (6.1cm)	Natural	**08-732-113**	500/121.24
3.5 × 3.5 × 1" (8.12 × 8.12 × 2.54cm)	2.4" (6.1cm)	Blue	**08-732-114**	500/144.55
5.5 × 5.5 × 1" (13.96 × 13.96 × 2.54cm)	3.86" (9.8cm)	Natural	**08-732-115**	500/181.85
Pour Boat				
1.62 × 1.25 × 0.312" (4.11 × 3.17 × 0.79cm)	1.3" (3.3cm)	Natural	**08-732-116**	250/107.84
3.5 × 5.25 × 1" (8.89 × 13.33 × 2.54cm)	2" (5.1cm)	Natural	**08-732-117**	250/117.91
4.75 × 7.75 × 1" (12.06 × 12.06 × 2.54cm)	3.85" (9.8cm)	Natural	**08-732-118**	250/147.11

LabReporter
QUARTERLY MAGAZINE

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Prices subject to change.

Before You Buy **Weights and Balances**

TROEMNER

UltraClass Platinum, UltraClass Gold, UltraClass or ANSI/ASTM Classes 000, 00, 0, 1, 2, 3 and 4

Precision Analytical Weights

- Weights 1g and larger are screw knob-style weights, consisting of a body and a lifting knob. Weight bottoms are slightly recessed, exposing the smallest possible area to wear. Each weight is marked with its nominal value. Weights are two-piece construction and have an adjusting cavity.
- Weights 500mg and below are flat, one-piece weights with one end turned up for easy handling.

Electronic Balance Calibration Weights

- Weights 10 to 500g are machined as straight cylinders with the adjusting cavity in the bottom of the weight.
- Weights 1 to 5kg are machined with a groove around the diameter allowing for easier handling. The adjusting cavity is in the bottom of the weight.
- Grip handle weights (5kg and above) have a recess in the top of the weight with a lifting handle, allowing the user to pick up the weight and providing clearance for the user's hand. The adjusting cavity is within the lifting handle.

UltraClass, UltraClass Gold and UltraClass Platinum series weights are available exclusively from Troemner and are made from our special stainless steel, Troemner Alloy 8. UltraClass series weights combine high precision with the advantage of two-piece construction avoiding the costly replacement issues associated with one-piece weights. Consistent automated robotic measurement means that Troemner UltraClass Series weights are the most precise two-piece weights with weight tolerances that are equal to ANSI/ASTM E617 Class 0 (UltraClass), Class 00 (UltraClass Gold) and Class 000 (UltraClass Platinum).

Features To Look For

Key Product Notes

Measurement uncertainty is just as important as the measured value; it provides the precision that a laboratory incorporates into its calibration process.

Material quality such as consistent density, low magnetic susceptibility, and corrosion resistance is crucial to mass stability. Our analytical weights 1g to 1kg are manufactured from Alloy 8 Stainless Steel to ensure these hallmarks of quality.

Proper packaging and handling ensures weights have minimal exposure to foreign contaminants which can impact stability. Weights should be stored in protective cases and handled using gloves or other accessories.

Weight Selection

- Weights should have an accuracy that is one-third of the measurement device readability and/or the measurement accuracy requirements.
- Precision analytical weights are knob-style weights that provide easy handling with forceps. Electronic balance weights are cylindrical in shape with a groove near the top for handling with gloves.
- Selecting weights:
  - Individual weights are ideal for balance checks, verification and calibration at the manufacturer-recommended calibration weight
  - Weight sets are ideal for calibrating balances at specific loads throughout the entire range of the balance
  - Cal-Paks are ideal for routine checks and verification of your balance; balances should be checked at the recommended calibration weight, 10% of the calibration weight, and the recommended minimum as determined by the balance's readability and standard deviation

Weight Certification

- NVLAP Certificate – Meets all regulatory requirements including ISO/IEC 17025 (NVLAP Lab Code 105013)
- Traceable Certificate – Meets traceability requirements, not stringent regulatory requirements

Weights

Troemner Cal-Paks Weight Sets

Highly polished Alloy 8 stainless-steel weights

- Components and cases are linked through the use of a unique serial number
- Clear plastic cases
- Individual weights in high-quality polycarbonate cases

INCLUDES:
Master carrying case; three individually-cased precision weights; USB Flashdrive with electronic NVLAP certificate; NVLAP Lab Code 105013-0; NVLAP certificate; and accessories for proper handling and weight care

COMPLIANCE:
Meet ISO™/IEC 17025 requirements.

02-215-605

Includes	Mfr. No.	Cat. No.	Each
ANSI™ /ASTM Class 0			
2g**, 200mg, 1mg	7250-00W	**02-215-600**	389.50
5g**, 500mg, 1mg	7251-00W	**02-215-601**	378.50
ANSI/ASTM Class 1			
50g, 5g, 200mg	7252-1W	**02-215-602**	315.00
50g, 5g, 2g	7253-1W	**02-215-603**	351.50
100g, 10g, 20mg	7254-1W	**02-215-604**	380.50
100g, 10g, 200mg	7255-1W	**02-215-605**	380.50
100g, 10g, 2g	7256-1W	**02-215-606**	407.50
200g, 20g, 200mg	7257-1W	**02-215-607**	408.00
200g, 20g, 2g	7258-1W	**02-215-608**	413.00
500g, 50g, 20mg	7259-1W	**02-215-609**	515.50
500g, 50g, 200mg	7260-1W	**02-215-610**	527.50
500g, 50g, 2g	7261-1W	**02-215-611**	502.54
1kg, 100g, 2g	7262-1W	**02-215-612**	692.50
1kg, 100g, 20g	7263-1W	**02-215-613**	711.00
2kg, 200g, 20g	7265-1W	**02-215-615**	996.50
20g, 2g, 20mg	7270-1W	**02-215-618**	345.50
20g, 2g, 200mg	7271-1W	**02-215-619**	351.50
5kg, 200g, 2g	7268-1W	**02-215-622**	1157.10
5kg, 200g, 20g	7269-1W	**02-215-624**	1176.11

*** Two-piece weight*

Troemner Class 7 Economical Stainless Steel Weight Sets

For routine analytical weighings where absolute precision is not required

Choose from five sets

- 1 to 100mg weights are aluminum; 200 and 500mg weights are stainless steel
- Weights over 1g are made of 303 stainless steel and adjusted to Class 7
- Manufacturer Nos: 318S, 311-10S, 312S, 313S, 338F

Includes:
Polypropylene box with cover; 1 to 500mg set includes forceps

	Gram Weights											Fractional Weights (mg)										
Description	2000	1000	500	200	100	50	20	10	5	2	1	500	200	100	50	20	10	5	2	1	Cat No.	Each
1 to 500mg												1	2	1	1	2	1	1	2	1	**02-301-105**	65.10
10mg to 100g					1	1	2	1	1	2	1	1	2	1	1	2	1				**02-301-102**	72.30
1 to 500g			1	2	1	1	1	2	1	2	1										**02-301-103**	103.90
1 to 1000g		1	1	2	1	1	1	2	1	2	1										**02-301-104**	156.80
1 to 2000g	1	1	1	2	1	1	1	2	1	2	1										**02-301-106**	271.50

Troemner Electronic Balance Calibration Weights

Two-piece weights with adjusting cavities

- Manufactured from stainless steel chosen for its uniformity density, high resistance to wear and corrosion and it's low magnetic properties
- UltraClass™ and Class 1 weights are highly polished to a mirror-like finish

Precision-machined stainless-steel in three styles

- Masses from 30 to 500g are straight cylinders
- Masses from 1 to 5kg are cylindrical with indentation near the top for easy gripping
- Masses 5 to 30kg are sleek cylinders with recessed grip handles, perfectly flat on top and easily stacked on center

Proctective Cases

- Individual weights 10g through 10kg are supplied in a high quality polycarbonate case
- Soft absorbent cotton glove is included to protect weights during use
- Optional cases are available for grip-handle weights

Certifications:

Weights are supplied with a NIST/NVLAP Weight Calibration Certificate or a Traceable Certificate.

	UltraClass Platinum			UltraClass Gold			UltraClass			Class 1			Class 4		
Nominal Mass	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each
Standard Cylinder															
30g	8054-UCP	**02-218-100**	123.52	8054-UCG	**02-218-143**	102.93	8054	**02-214-6S**	76.60	8154	**02-215-17A**	71.30	8454	**02-215-65A**	64.50
30g	8054-UCPW	**02-218-101**	277.45	8054-UCGW	**02-218-144**	231.21	8054W	**02-214-8S**	164.62	8154W	**02-216-539**	146.58	8454W	**----**	----
30g	8054-UCPT	**02-218-102**	180.53	8054-UCGT	**02-218-145**	150.45	8054T	**02-214-7S**	108.04	8154T	**02-216-538**	96.07	8454T	**02-216-577**	83.50
40g	8053-UCP	**02-218-103**	133.02	8053-UCG	**02-218-146**	110.85	8053	**02-100-100**	73.90	8153	**02-100-110**	64.40	8453	**02-216-519**	57.40
40g	8053-UCPW	**02-218-104**	277.45	8053-UCGW	**02-218-147**	231.21	8053W	**02-214-8R**	73.99	8153W	**02-216-537**	146.58	8453W	**02-216-576**	117.70
40g	8053-UCPT	**02-218-105**	186.23	8053-UCGT	**02-218-148**	155.20	8053T	**02-216-529**	103.53	8153T	**02-216-536**	96.35	8453T	**02-216-575**	81.29
50g	8052-UCP	**02-218-106**	131.13	8052-UCG	**02-218-149**	109.27	8052	**02-214-6Q**	84.10	8152	**02-215-17C**	74.90	8452	**02-215-20**	63.40
50g	8052-UCPW	**02-218-107**	277.45	8052-UCGW	**02-218-150**	231.21	8052W	**02-214-8Q**	170.90	8152W	**02-21517CC**	157.80	8452W	**02-100-123**	115.08
50g	8052-UCPT	**02-218-108**	180.53	8052-UCGT	**02-218-151**	150.45	8052T	**02-214-7Q**	113.30	8152T	**02-215-17CT**	105.60	8452T	**02-216-574**	81.29
100g	8044-UCP	**02-218-109**	159.63	8044-UCG	**02-218-152**	133.02	8044	**02-214-6P**	101.00	8144	**02-215-17D**	84.00	8444	**02-215-65D**	68.40
100g	8044-UCPT	**02-218-110**	203.34	8044-UCGT	**02-218-153**	169.45	8044T	**02-214-7P**	126.20	8144W	**02-100-111**	189.60	8444T	**02-216-573**	73.90
150g	8042-UCP	**02-218-111**	199.54	8042-UCG	**02-218-154**	166.28	8042	**02-214-6N**	120.00	8142	**02-215-17E**	88.66	8442	**02-100-126**	67.57
150g	8042-UCPW	**02-218-112**	431.38	8042-UCGW	**02-218-155**	359.49	8042W	**02-214-8N**	260.78	8142W	**02-100-112**	212.21	8442W	**02-216-572**	179.48
150g	8042-UCPT	**02-218-113**	264.15	8042-UCGT	**02-218-156**	220.13	8042T	**02-216-527**	146.75	8142T	**02-216-535**	151.80	8442T	**02-216-571**	177.94
160g	8040-UCP	**02-218-114**	199.54	8040-UCG	**02-218-157**	166.28	8040	**02-100-102**	110.85	8140	**02-100-114**	90.79	8440	**02-216-518**	85.52
160g	8040-UCPW	**02-218-115**	431.38	8040-UCGW	**02-218-158**	359.49	8040W	**02-216-526**	239.85	8040W	**02-216-526**	239.85	8440W	**02-216-570**	184.00
160g	8040-UCPT	**02-218-116**	264.15	8040-UCGT	**02-218-159**	220.13	8040T	**02-216-525**	146.75	8140T	**02-216-534**	146.58	8440T	**02-216-569**	120.36
200g	8038-UCP	**02-218-117**	191.93	8038-UCG	**02-218-160**	159.94	8038	**02-215-28**	120.30	8138	**02-215-17G**	98.20	8438	**02-215-65G**	78.41
300g	8036-UCP	**02-218-118**	220.44	8036-UCG	**02-218-161**	183.70	8036	**02-214-6L**	134.99	8138W	**02-215-17GC**	221.50	8436	**02-215-65H**	85.79
300g	8036-UCPT	**02-218-119**	296.45	8036-UCGT	**02-218-162**	247.05	8036T	**----**	----	8138T	**02-215-17GT**	159.30	8436T	**02-215-65HT**	120.44
400g	8034-UCP	**02-218-120**	258.44	8034-UCG	**02-218-163**	215.37	8034	**02-214-6K**	158.23	8134	**02-215-17J**	131.70	8434	**02-216-517**	104.52
400g	8034-UCPW	**02-218-121**	431.38	8034-UCGW	**02-218-164**	359.49	8034W	**----**	----	8134W	**02-216-533**	223.82	8434W	**02-216-568**	174.20
400g	8034-UCPT	**02-218-122**	330.67	8034-UCGT	**02-218-165**	275.55	8034T	**02-214-7K**	197.30	8134T	**02-215-17JT**	179.30	8434T	**02-100-134**	126.69
500g	8032-UCP	**02-218-123**	273.65	8032-UCG	**02-218-166**	228.04	8032	**02-214-6J**	164.92	8132	**02-215-17K**	151.60	8432	**02-215-65K**	103.10
500g	8032-UCPT	**02-218-124**	343.96	8032-UCGT	**02-218-167**	286.63	8032T	**02-214-7J**	216.50	8132T	**02-215-17KT**	188.40	8432T	**02-215-65KT**	142.48
Cylinder with Indentation															
1kg	8028-UCP	**02-218-125**	328.76	8028-UCG	**02-218-168**	273.97	8028	**02-214-6H**	207.00	8128	**02-215-17M**	184.40	8428	**02-215-65M**	137.70
2kg	8024-UCP	**02-218-126**	381.97	8024-UCG	**02-218-169**	318.30	8024	**02-214-6G**	241.00	8124	**02-215-17N**	232.00	8424	**02-215-65N**	172.50
2kg	8024-UCPT	**02-218-127**	486.49	8024-UCGT	**02-218-170**	405.41	8024T	**02-214-7G**	303.00	8124T	**02-215-17NT**	265.99	8424T	**02-215-65NT**	213.50
5kg	8016-UCP	**02-218-128**	862.76	8016-UCG	**02-218-171**	718.97	8016	**02-214-6F**	522.75	8116	**02-215-17P**	507.50	8416	**02-215-65P**	354.50
5kg	8016-UCPT	**02-218-129**	963.48	8016-UCGT	**02-218-172**	802.90	8016T	**02-214-7F**	602.50	8116T	**02-215-17PT**	521.00	8416T	**02-215-65PT**	390.50
Cylinder with Grip Handle															
5kg	8014-UCPW	**02-218-130**	1529.78	8014-UCGW	**02-218-173**	1274.81	8014W	**02-216-524**	849.88	8114	**02-215-7A**	693.41	8414	**02-215-57A**	445.50
5kg	8014-UCPT	**02-218-131**	1417.66	8014-UCGT	**02-218-174**	1181.38	8014T	**02-214-7E**	872.00	8014T	**02-214-7E**	872.00	8414T	**02-100-135**	462.42
10kg	8010-UCP	**02-218-132**	1856.64	8010-UCG	**02-218-175**	1547.20	8010	**02-214-6D**	1091.63	8110	**02-215-7B**	981.50	8410	**02-215-57B**	668.50
10kg	8010-UCPT	**02-218-133**	1989.67	8010-UCGT	**02-218-176**	1658.06	8010T	**02-214-7D**	1183.88	8110T	**02-215-7BT**	1081.38	8410T	**----**	----
20kg	8006-UCP	**02-218-134**	2757.4	8006-UCG	**02-218-177**	2297.85	8006	**02-100-105**	1531.89	8106	**02-100-116**	1309.13	8406	**02-215-57C**	985.54
20kg	8006-UCPW	**02-218-135**	3080.46	8006-UCGW	**02-218-178**	2567.06	8006W	**02-216-523**	1711.75	8106W	**02-215-7CC**	1574.00	8406W	**02-215-57CC**	1114.00
20kg	8006-UCPT	**02-218-136**	2856.22	8006-UCGT	**02-218-179**	2380.19	8006T	**----**	----	8106T	**02-215-7CT**	1471.90	8406T	**02-100-136**	994.52
25kg	8002-UCP	**02-218-137**	3312.31	8002-UCG	**02-218-180**	2760.26	8002	**02-216-501**	1840.17	8102	**02-215-7D**	1674.00	8402	**02-216-516**	1128.53
25kg	8002-UCPW	**02-218-138**	3705.68	8002-UCGW	**02-218-181**	3088.07	8002W	**02-216-522**	2059.23	8102W	**02-216-532**	1744.10	8402W	**02-216-567**	1291.00
25kg	8002-UCPT	**02-218-139**	3483.34	8002-UCGT	**02-218-182**	2902.78	8002T	**02-214-7B**	1991.58	8102T	**02-216-531**	1683.92	8402T	**02-216-566**	1197.00
30kg	8000-UCP	**02-218-140**	3910.92	8000-UCG	**02-218-183**	3259.10	8000	**02-216-500**	2172.73	8100	**02-100-119**	1840.17	8400	**02-215-57E**	1301.75
30kg	8000-UCPW	**02-218-141**	4655.86	8000-UCGW	**02-218-184**	3879.88	8000W	**02-216-521**	2587.10	8100W	**02-216-530**	2182.23	8400W	**02-216-565**	1498.55
30kg	8000-UCPT	**02-218-142**	4148.46	8000-UCGT	**02-218-185**	3457.06	8000T	**02-216-520**	2304.70	8100T	**02-215-7ET**	2089.31	8400T	**02-216-564**	1470.88

Troemner Individual Analytical Precision Weights, With Certificate

Low magnetic susceptibility, uniform consistency and high resistance to corrosion

- Used in extreme stable environments
- 1 to 500mg weights are one-piece construction with no adjusting cavity with one end turned up for easy handling
- 1 to 100g are two-piece construction with handling knob
- Surfaces are polished to a perfect, mirror like finish

Ordering Information

- Weights 1mg through 10kg are supplied in a high quality polycarbonate case

Certifications:

- Weights are supplied with a NIST/NVLAP Weight Calibration Certificate or a Traceable Certificate.

	UltraClass™ Platinum			UltraClass Gold			UltraClass			Class 1			Class 4		
Nominal Mass	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each
Flat Aluminum															
1mg	7037-UCPT	**02-214-446**	413.72	7037-UCGT	**02-214-290**	330.97	7037-0T	**02-214-1X**	97.10	7037-1T	**02-319-1TT**	90.70	7037-4T	**02-215-51GT**	53.30
1mg	7037-UCPW	**02-214-444**	522.60	7037-UCGW	**02-214-288**	418.08	7037-0W	**02-214-2X**	158.90	7037-1W	**02-319-1TC**	125.10	7037-4W	**02-225-533**	89.74
2mg	7036-UCPT	**02-214-425**	413.72	7036-UCGT	**02-214-269**	330.97	7036-0T	**02-214-1W**	95.80	7036-1T	**02-319-1RT**	92.10	7036-4T	**02-215-51FT**	53.40
2mg	7036-UCPW	**02-214-423**	522.60	7036-UCGW	**02-214-267**	418.08	7036-0W	**02-214-2W**	141.20	7036-1W	**02-319-1RC**	126.30	7036-4W	**02-225-531**	89.74
5mg	7034-UCPT	**02-214-383**	413.72	7034-UCGT	**02-214-227**	330.97	7034-0T	**02-214-1T**	102.40	7034-1T	**02-319-1QT**	101.80	7034-4T	**02-215-51ET**	51.46
5mg	7034-UCPW	**02-214-381**	522.60	7034-UCGW	**02-214-225**	418.08	7034-0W	**02-214-2T**	140.40	7034-1W	**02-319-1QC**	124.00	7034-4W	**02-225-528**	88.68
10mg	7033-UCPT	**02-214-440**	425.00	7033-UCGT	**02-214-284**	330.97	7033-0T	**02-214-1S**	104.50	7033-1T	**02-319-1PT**	101.00	7033-4T	**02-215-60AT**	50.30
10mg	7033-UCPW	**02-214-438**	522.60	7033-UCGW	**02-214-282**	418.08	7033-0W	**02-214-2S**	140.30	7033-1W	**02-319-1PC**	124.00	7033-4W	**02-215-60AC**	98.20
20mg	7032-UCPT	**02-214-419**	413.72	7032-UCGT	**02-214-263**	330.97	7032-0T	**02-214-1R**	89.30	7032-1T	**02-319-1NT**	100.20	7032-4T	**----**	----
20mg	7032-UCPW	**02-214-417**	522.60	7032-UCGW	**02-214-261**	418.08	7032-0W	**02-214-2R**	140.70	7032-1W	**02-319-1NC**	126.30	7032-4W	**02-215-60BC**	99.50
Flat 304 Stainless Steel															
50mg	7030-UCPT	**02-214-377**	413.72	7030-UCGT	**02-214-221**	342.50	7030-0T	**02-214-1P**	92.25	7030-1T	**02-319-1LT**	92.10	7030-4T	**----**	----
50mg	7030-UCPW	**02-214-375**	522.60	7030-UCGW	**02-214-219**	418.08	7030-0W	**02-214-2P**	140.70	7030-1W	**02-100-142**	114.70	7030-4W	**02-225-520**	88.68
100mg	7029-UCPT	**02-214-434**	413.72	7029-UCGT	**02-214-278**	330.97	7029-0T	**02-214-1N**	95.40	7029-1T	**02-319-1KT**	91.00	7029-4T	**02-215-60DT**	54.00
100mg	7029-UCPW	**02-214-432**	522.60	7029-UCGW	**02-214-276**	418.08	7029-0W	**02-214-2N**	141.20	7029-1W	**02-319-1KC**	126.30	7029-4W	**02-225-516**	89.74
200mg	7028-UCPT	**02-214-413**	413.72	7028-UCGT	**02-214-257**	330.97	7028-0T	**02-214-1M**	92.60	7028-1T	**02-319-1JT**	92.10	7028-4T	**02-215-60ET**	53.30
200mg	7028-UCPW	**02-214-411**	522.60	7028-UCGW	**02-214-255**	418.08	7028-0W	**02-214-2M**	133.56	7028-1W	**02-319-1JC**	125.00	7028-4W	**02-225-515**	92.90
500mg	7026-UCPT	**02-214-371**	413.72	7026-UCGT	**02-214-215**	330.97	7026-0T	**02-214-1K**	95.40	7026-1T	**02-319-1HT**	92.10	7026-4T	**02-215-60FT**	50.90
500mg	7026-UCPW	**02-214-369**	522.60	7026-UCGW	**02-214-213**	418.08	7026-0W	**02-214-2K**	140.70	7026-1W	**02-319-1HC**	125.00	7026-4W	**02-225-540**	91.80
Alloy 8 with Handling Knob															
1g	7025-UCPT	**02-214-452**	483.00	7025-UCGT	**02-214-296**	386.40	7025-0T	**02-214-1J**	97.60	7025-1T	**02-319-1GT**	93.60	7025-4T	**02-215-55AT**	61.00
1g	7025-UCPW	**02-214-450**	576.04	7025-UCGW	**02-214-294**	460.84	7025-0W	**02-214-2J**	156.70	7025-1W	**02-319-1GC**	132.70	7025-4W	**02-215-55AC**	111.01
2g	7024-UCPT	**02-214-431**	483.00	7024-UCGT	**02-214-275**	386.40	7024-0T	**02-214-1H**	94.00	7024-1T	**02-319-1FT**	95.00	7024-4T	**02-215-55BT**	59.50
2g	7024-UCPW	**02-214-429**	576.04	7024-UCGW	**02-214-273**	460.84	7024-0W	**02-214-2H**	155.90	7024-1W	**02-319-1FC**	128.90	7024-4W	**02-225-511**	110.30
5g	7022-UCPT	**02-214-389**	483.00	7022-UCGT	**02-214-233**	386.40	7022-0T	**02-214-1F**	97.40	7022-1T	**02-319-1ET**	93.80	7022-4T	**02-100-149**	52.79
5g	7022-UCPW	**02-214-387**	576.04	7022-UCGW	**02-214-231**	460.84	7022-0W	**02-214-2F**	154.80	7022-1W	**02-319-1EC**	133.90	7022-4W	**02-225-507**	113.60
10g	7021-UCPT	**02-214-443**	483.00	7021-UCGT	**02-214-287**	386.40	7021-0T	**02-214-1E**	106.80	7021-1T	**02-319-1DT**	98.90	7021-4T	**02-215-55DT**	64.80
10g	7021-UCPW	**02-214-441**	576.04	7021-UCGW	**02-214-285**	460.84	7021-0W	**02-214-2E**	154.80	7021-1W	**02-319-1DC**	144.70	7021-4W	**02-225-506**	114.02
20g	7020-UCPT	**02-214-422**	483.00	7020-UCGT	**02-214-266**	400.00	7020-0T	**02-214-1D**	105.30	7020-1T	**02-319-1CT**	96.10	7020-4T	**02-215-55ET**	75.90
20g	7020-UCPW	**02-214-420**	576.04	7020-UCGW	**02-214-264**	460.84	7020-0W	**02-214-2D**	158.20	7020-1W	**02-319-1CC**	147.00	7020-4W	**02-225-505**	121.20
50g	7018-UCPT	**02-214-380**	483.00	7018-UCGT	**02-214-224**	386.40	7018-0T	**02-214-1B**	130.60	7018-1T	**02-319-1BT**	121.00	7018-4T	**02-215-55FT**	81.00
50g	7018-UCPW	**02-214-378**	576.04	7018-UCGW	**02-214-222**	460.84	7018-0W	**02-214-2B**	173.20	7018-1W	**02-319-1BC**	147.30	7018-4W	**02-225-503**	124.50
100g	7017-UCPT	**02-214-437**	564.17	7017-UCGT	**02-214-281**	451.33	7017-0T	**02-214-1A**	133.40	7017-1T	**02-319-1AT**	145.50	7017-4T	**02-215-55GT**	99.40
100g	7017-UCPW	**02-214-435**	663.14	7017-UCGW	**02-214-279**	530.52	7017-0W	**02-214-2A**	197.80	7017-1W	**02-319-1AC**	165.20	7017-4W	**02-100-153**	127.75

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UltraClass, UltraClass Gold and UltraClass Platinum series weights are available exclusively from Troemner and are made from our special stainless steel, Troemner Alloy 8. UltraClass series weights combine high precision with the advantage of two-piece construction avoiding the costly replacement issues associated with one-piece weights. Consistent automated robotic measurement means that Troemner UltraClass Series weights are the most precise two-piece weights with weight tolerances that are equal to ANSI/ASTM E617 Class 0 (UltraClass), Class 00 (UltraClass Gold) and Class 000 (UltraClass Platinum).

Troemner Analytical Precision Weight Sets

Highly polished, low magnetic susceptibility, uniform consistency and high resistance to corrosion

- Used in extreme stable environments
- 1 to 500mg weights are one-piece construction with no adjusting cavity with one end turned up for easy handling
- Weights sets 1mg-500g are provided in a high-quality polycarbonate set case
- Weight sets where the largest weight is 1kg and above are supplied in a felt line oak case
- Each polycarbonate case is placed in its own individual compartment

	UltraClass™ Platinum			UltraClass Gold			UltraClass			Class 1			Class 4		
Size	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each
1 to 500mg	7240-UCP	**02-214-522**	2407.11	7240-UCG	**02-214-366**	1925.69	7240-0	**02-100-161**	345.11	7240-1	**02-216-016**	586.50	7240-4	**02-216-018**	291.39
1 to 500mg	7240-UCPW	**02-214-524**	3561.18	7240-UCGW	**02-214-368**	2848.94	7240-0W	**02-100-162**	623.31	7240-1W	**02-100-176**	1084.26	7240-4W	**02-216-019**	731.63
1 to 500mg	7240-UCPT	**02-214-523**	2585.27	7240-UCGT	**02-214-367**	2068.21	7240-0T	**02-100-163**	443.42	7240-1T	**02-216-017**	878.00	7240-4T	**02-216-020**	455.50
1mg to 100g	7228-UCP	**02-214-486**	4238.18	7228-UCPG	----	----	7228-0	**02-214-3C**	1387.00	7228-1	**02-319-D**	1113.00	7228-4	**02-215-51C**	583.00
1mg to 200g	7223-UCP	**02-214-471**	4673.67	7223-UCG	**02-214-315**	3738.94	7223-0	**02-214-052**	1318.00	7223-1	**02-215-115**	1177.00	7223-4	**02-215-118**	635.00
1mg to 200g	7223-UCPW	**02-214-473**	6823.44	7223-UCGW	**02-214-317**	5458.76	7223-0W	**02-214-135**	2680.00	7223-1W	**02-100-177**	2256.14	7223-4W	**02-216-002**	1510.78
1mg to 200g	7223-UCPT	**02-214-472**	5384.33	7223-UCGT	**02-214-316**	4307.46	7223-0T	**02-214-096**	1994.00	7223-1T	**02-215-115T**	1778.00	7223-4T	**02-216-003**	957.57
1mg to (2)200g	7221-UCP	**02-214-465**	5233.89	7221-UCG	**02-214-309**	4187.10	7221-0	**02-215-119**	1438.08	7221-1	**02-215-120**	1244.00	7221-4	**02-214-061**	642.95
1mg to (2)200g	7221-UCPW	**02-214-467**	7466.80	7221-UCGW	**02-214-311**	5973.43	7221-0W	**02-100-165**	1362.68	7221-1W	**02-100-178**	2449.34	7221-4W	**02-214-141**	1642.75
1mg to (2)200g	7221-UCPT	**02-214-466**	6039.55	7221-UCGT	**02-214-310**	4831.65	7221-0T	**02-100-166**	1001.35	7221-1T	**02-100-179**	1914.07	7221-4T	**02-214-102**	1104.00
1mg to 500g	7219-UCP	**02-214-459**	6480.98	7219-UCG	**02-214-303**	5184.79	7219-0	**02-214-053**	1083.96	7219-1	**02-215-125**	1993.00	7219-4	**02-214-062**	1567.79
1mg to 500g	7219-UCPW	**02-214-461**	11,285.31	7219-UCGW	**02-214-305**	9028.24	7219-0W	**02-100-167**	1753.39	7219-1W	**02-100-180**	3146.14	7219-4W	**02-214-142**	2756.56
1mg to 500g	7219-UCPT	**02-214-460**	8719.84	7219-UCGT	**02-214-304**	6975.86	7219-0T	**02-214-097**	3220.00	7219-1T	**02-216-004**	2680.55	7219-4T	**02-214-103**	2315.26
1mg to 1kg	7217-UCP	**02-214-453**	7478.67	7217-UCG	**02-214-297**	5982.94	7217-0	**02-100-168**	1499.50	7217-1	**02-216-006**	2691.11	7217-4	**02-216-008**	2233.97
1mg to 1kg	7217-UCPW	**02-214-455**	12,441.36	7217-UCGW	**02-214-299**	9953.09	7217-0W	**02-100-169**	2173.49	7217-1W	**02-100-183**	3927.39	7217-4W	**02-216-009**	3420.63
1mg to 1kg	7217-UCPT	**02-214-454**	9733.36	7217-UCGT	**02-214-298**	7786.68	7217-0T	**02-100-170**	1885.15	7217-1T	**02-216-007**	3405.85	7217-4T	**02-216-010**	2941.32
10mg to 50g	7231-UCP	**02-214-495**	3426.57	7231-UCG	**02-214-339**	2741.25	7231-0	**02-100-171**	497.14	7231-1	**02-319-H**	835.10	7231-4	**02-216-021**	465.59
10 mg to 100g	7226-UCP	**02-214-480**	3238.51	7226-UCG	**02-214-324**	2590.81	7226-0	**02-214-3B**	1175.68	7226-1	**02-319-B**	903.72	7226-4	**02-214-063**	489.87
1 to 50g	7229-UCP	**02-214-489**	2183.42	7229-UCG	**02-214-333**	1789.35	7229 0	----	----	7229-1	**02-319-G**	597.55	7229-4	**02-215-51A**	398.50
1 to 50g	7229-UCPW	**02-214-491**	3270.19	7229-UCGW	**02-214-335**	2668.40	7229-0W	**02-214-5D**	1239.49	7229-1W	**02-216-005**	1110.08	7229-4W	**02-215-51AC**	718.70
1 to 100g	7224-UCP	**02-214-474**	3335.51	7224-UCG	**02-214-318**	1616.88	7224-0	**02-214-3A**	801.04	7224-1	**02-319-A**	682.00	7224-4	**02-215-51B**	369.51
1g to 2kg	7214-UCP	**02-100-154**	9095.94	7214-UCG	**02-100-158**	3493.00	7214-0	**02-100-173**	1659.14	7214-1	**02-216-011**	2967.42	7214-4	**02-216-014**	2417.67
1g to 2kg	7214-UCPW	**02-100-155**	11,720.80	7214-UCGW	**02-100-159**	4500.80	7214-0W	**02-100-174**	2051.88	7214-1W	**02-216-012**	3714.13	7214-4W	**02-216-015**	3261.21
1g to 2kg	7214-UCPT	**02-100-156**	4677.71	7214-UCGT	**02-100-160**	3742.17	7214-0T	**02-100-175**	1904.41	7214-1T	**02-216-013**	3385.79	7214-4T	**02-100-189**	2941.32

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METTLER TOLEDO™ Analytical Individual Weights: ASTM™ Class 1

Low magnetic permeability and high corrosion resistance for reliable stable values

METTLER TOLEDO Analytical Individual Weights

Nominal Mass	Mfr. No.	Cat. No.	Each
With Certificate			
1mg	11123469	**01-912-169**	82.89
2mg	11123470	**01-912-170**	82.89
5mg	11123471	**01-912-171**	82.89
10mg	11123472	**01-912-172**	82.89
20mg	11123473	**01-912-173**	82.89
50mg	11123474	**01-912-174**	82.89
100mg	11123475	**01-912-175**	82.89
200mg	11123476	**01-912-176**	82.89
500mg	11123477	**01-912-177**	83.94
1g	11123478	**01-912-178**	87.96
2g	11123479	**01-912-179**	87.96
5g	11123480	**01-912-180**	87.96
10g	11123481	**01-912-181**	90.05
20g	11123482	**01-912-182**	90.05
50g	11123483	**01-912-183**	112.46
100g	11123484	**01-912-184**	126.81
200g	11123485	**01-912-185**	211.18
500g	11123486	**01-912-186**	225.00
1kg	11123487	**01-912-187**	579.53
2kg	11123488	**01-912-188**	858.23
5kg	11123489	**01-912-189**	1261.86
Without Certificate			
1mg	11123446	**01-912-148**	68.78
10mg	11123448	**01-912-150**	65.00
10mg	11123449	**01-912-151**	68.78
100mg	11123452	**01-912-154**	68.78
1g	11123455	**01-912-157**	70.70
5g	11123457	**01-912-159**	40.21
10g	11123458	**01-912-160**	40.21
20g	11123459	**01-912-161**	70.70
50g	11123460	**01-912-162**	82.87
100g	11123461	**01-912-163**	91.00
200g	11123462	**01-912-164**	140.00
500g	11123463	**01-912-165**	209.33
1kg	11123464	**01-912-166**	473.14
2kg	11123465	**01-912-167**	725.94
5kg	11123466	**01-912-168**	1072.58

METTLER TOLEDO™ Analytical Individual Weights: ASTM™ Class 4

Low magnetic permeability and high corrosion resistance for reliable stable values

METTLER TOLEDO Analytical Individual Weights

Nominal Mass	Mfr. No.	Cat. No.	Each
With Certificate			
1mg	11123607	**01-912-211**	49.25
2mg	11123608	**01-912-212**	49.25
5mg	11123609	**01-912-213**	47.00
10mg	11123610	**01-912-214**	49.25
20mg	11123611	**01-912-215**	47.00
50mg	11123612	**01-912-216**	49.00
100mg	11123613	**01-912-217**	51.35
200mg	11123614	**01-912-218**	49.00
500mg	11123615	**01-912-219**	51.35
1g	11123616	**01-912-220**	59.97
2g	11123617	**01-912-221**	59.97
5g	11123618	**01-912-222**	62.07
10g	11123619	**01-912-223**	61.93
20g	11123620	**01-912-224**	109.07
50g	11123621	**01-912-225**	78.41
100g	11123622	**01-912-226**	93.51
200g	11123623	**01-912-227**	164.14
500g	11123624	**01-912-228**	262.13
1kg	11123625	**01-912-229**	498.94
2kg	11123626	**01-912-230**	418.81
5kg	11123627	**01-912-231**	1073.18
Without Certificate			
1mg	11123584	**01-912-190**	29.41
100mg	11123590	**01-912-196**	29.41
1g	11123593	**01-912-199**	42.58
5g	11123595	**01-912-201**	42.58
10g	11123596	**01-912-202**	51.74
20g	11123597	**01-912-203**	55.00
50g	11123598	**01-912-204**	65.82
200g	11123600	**01-912-206**	123.59
500g	11123601	**01-912-207**	202.72
2kg	11123603	**01-912-209**	665.56

METTLER TOLEDO™ CarePacs™

For routine testing of balances

Perform testing by using only two test weights (included). Save time and money, and rely on accurate measuring results; a unique approach to early detection of out-of-process tolerances.

METTLER TOLEDO CarePacs

- Convenient, cost-effective way to limit the risk of working outside of specified process tolerances
- Tests are performed in the upper and lower weighing range, typically using just two weights
- SOP's from METTLER TOLEDO give clear guidance as to how to perform testing reliably
- Weight class and nominal value of weights are defined according to characteristics of each balance model
- Comes with ergonomic tweezers, weight forks, cleanroom-approved gloves and cleaning cloths
- Includes two METTLER TOLEDO-recommended, balance model-specific test weights

Benefits of CarePacs

- Ensures accurate and safe operation of balances
- Lower cost for initial calibration and recalibration compared with traditional weight sets
- Validation of process tolerances as low as 0.03%
- Gap between calibrations performed by a qualified service technician is monitored with the correct weights
- Option to add third weight between 1mg and 100g for customer-specific testing

ALERTS: Requirements for routine testing depend on many factors with process tolerances, associated risks and laboratory practices being the most important ones. Testing should always be performed at (or close to) maximum load and at approximately 5% of the weighing range, or according to regulatory requirements.

Includes	Type	Mfr. No.	Cat. No.	Each
Small CarePacs				
50g, 2g	ASTM™	11123103	**01-912-106**	318.12
50g, 2g	OIML	11123003	**01-912-107**	369.56
100g, 5g	ASTM	11123102	**01-912-104**	318.12
100g, 5g	OIML	11123002	**01-912-105**	369.56
200g, 10g	ASTM	11123101	**01-912-102**	371.83
200g, 10g	OIML	11123001	**01-912-103**	428.48
200g, 20g	ASTM	11123100	**01-912-100**	371.83
200g, 20g	OIML	11123000	**01-912-101**	428.48
Medium CarePacs				
500g, 20g	ASTM	11123107	**01-912-108**	471.12
500g, 20g	OIML	11123007	**01-912-109**	560.32
1000g, 50g	ASTM	11123108	**01-912-110**	688.85
1000g, 50g	OIML	11123008	**01-912-111**	733.00
2000g, 100g	ASTM	11123109	**01-912-112**	963.33
2000g, 200g	ASTM	11123110	**01-912-114**	1075.85
2000g, 200g	OIML	11123010	**01-912-115**	1207.82
Large CarePacs				
5000g, 200g	ASTM	11123111	**09-320-120**	1238.23

METTLER TOLEDO™ CarePacs™: Customized Third Weight

Third weight for customer-specific testing (e.g., minimum weight determination)

METTLER TOLEDO CarePacs: Customized Third Weight

Value	Mfr. No.	Cat. No.	Each
1mg	11123144	**01-912-116**	67.95
2mg	11123145	**01-912-117**	67.95
5mg	11123146	**01-912-118**	67.95
10mg	11123147	**01-912-119**	67.95
20mg	11123148	**01-912-120**	67.95
50mg	11123149	**01-912-121**	67.95
100mg	11123150	**01-912-122**	67.95
200mg	11123151	**01-912-123**	70.58
500mg	11123152	**01-912-124**	65.00
1g	11123153	**01-912-125**	70.04
2g	11123154	**01-912-126**	70.04
5g	11123155	**01-912-127**	40.21
10g	11123156	**01-912-128**	70.04
20g	11123157	**01-912-129**	70.04
50g	11123158	**01-912-130**	83.03
100g	11123159	**01-912-131**	95.26

Before You Buy **Scales**

Consider Your Application

- Purpose – There are a wide variety of scales designed to handle the unique demands of scientific research, food service, food processing, shipping/receiving, etc. Scales used in industrial applications are higher-capacity with rugged construction and AC or DC power. Other scales may be mechanical with no need for electrical power, while some require IP66 ingress protection ratings for wet weighing.
- Environment– It is important to know if the scale will be used in a clean, dry environment or one where it is exposed to dust, moisture, temperature changes, and/or corrosive chemicals. Will these exposures be minimal or excessive? Stainless-steel housings, sealed electronics, and temperature-compensated load cells provide the best resistance to chemicals, moisture, and temperature fluctuations.

Features To Look For:

- **Capacity** – To ensure a perfect fit, pick a scale that has approximately twice the capacity you need (including tare weight), and two times the readability your measurement requires. This will ensure maximum precision, durability and flexibility for now and in the future.
- **Readability** – Readability is the finest increment that can be displayed by a scale. Typically, the finer the readability of the scale, the lower the total capacity will be. A relative combination of high capacity and high readability is usually found in the most advanced scales.
- **Ease of Use** – You will want to choose a scale that is easy to use, requires little or no training, and is equipped with supervisor control. Scales vary greatly in their user interface and operation, and a scale that is difficult to use can waste valuable time and cause operator error.
- **Battery Power** – Some scales only operate on AC power, limiting their portability, while others are dry cell, or rechargeable battery-powered, making them better for remote applications. Battery type and availability are key features to consider when doing field work or for scales that must be used in multiple locations.

	DEFENDER 7000 DRY & WASHDOWN	DEFENDER 5000 DRY & WASHDOWN	DEFENDER 3000 DRY	VALOR 7000 DRY	VALOR 3000 DRY & WASHDOWN	VALOR 2000 DRY & WASHDOWN	VALOR 1000 DRY
DESCRIPTION	Advanced Bench Scale	Standard Bench Scale	Entry Bench Scale	Standard Compact Scale	Basic Compact Scale	Basic Compact Scale	Entry Compact Scale
CAPACITY	15kg/30lb - 300kg/600lb	15kg/30lb - 300kg/600lb	30kg/66lb.- 300kg/660lb	1,500g/3lb - 30kg/60lb	200g/0.4lb - 6000g/13lb	3kg/6lb - 15kg/30lb	3kg/6.6lb - 30kg/66lb
READABILITY	0.002kg/0.005lb 0.05kg/0.1lb	0.002kg/0.005lb - 0.05kg/0.1lb	0.005kg/0.01lb - 0.05kg/0.1lb	0.5g/0.001lb - 0.001kg/0.002lb	0.01g/0.00005lb - 1g/0.005lb	0.0005kg/0.001lb - 0.002kg/0.005lb	0.0005kg/0.001lb- 0.005kg/0.01lb
# WEIGH UNITS	7	7	5	5	6	4	4
INTERFACE	RS-232 Standard; RS-485 Optional; AC/DC Relay Optional	RS-232 Standard; RS-485 Optional; AC/DC Relay Optional	RS-232 Standard	RS232 Standard; Optional 2nd RS232, USB, Ethernet	N/A	N/A	N/A
WEIGHING MODES	Parts Counting, Checkweighing, Percent Weighing, Dynamic Weighing, Library of Records	Parts Counting, Checkweighing, Percent Weigh-ing, Dynamic Weighing	Basic Weighing, Parts Counting	Checkweighing, Percent Weighing, Accumulation	Basic Weighing, Percent Weighing, Specific Gravity	Basic Weighing	Basic Weighing, Checkweighing, Accumulation
BATTERY POWER	Rechargeable Models Avail.	Rechargeable Models Avail.	Rechargeable Models Standard	Rechargeable Battery Standard	Dry Cell Standard	Rechargeable Battery Standard	Rechargeable Battery Standard

Scales

Ohaus™ Ranger™ 3000 Compact Bench Scales

Tough, dependable, fast, precise

02-112-220

Features Include:

- Large, bright display: 38.1mm LCD display
- Rapid stabilization: Eliminates wait time
- User Friendly: SmarText™ menu navigation
- Weigh below capability: Functionality to perform specific gravity tests and weigh items that cannot be easily lifted on to the weighing pan
- Standard connectivity with flexible options: Included RS232 with optional Ethernet, second RS232 and USB offers additional data transfer capabilities or allows connection to multiple peripherals
- ABS housing, stainless steel platform
- Weighing units: kg, g, lb, oz, lb:oz
- Three LED (yellow, green, red) with configurable operation and alert beeper
- Weigh-below hook
- Integral transportation handle
- Sealed front panel
- Menu lockswitch
- Up front level indicator
- Adjustable leveling feet

COMPLIANCE:

- Metrology: NIST Handbook 44 (NTEP CC 13-022) and measurement Canada weights and measures regulations (AM-5907C), OIML R76-1 (R76/2006-NL1-12.46), (Class III, nmax 3000)(Counting function not certified/approved)
- Product safety: CSA C22.2 61010-1, UL 61010-1
- Electromagnetic compatibility: FCC Part 15 Class A, IEC 61326-1 (emissions Class B, immunity industrial requirements)

Model	Capacity	Readability	Platform Size	Mfr. No.	Cat. No.	Each
R31P3	3kg (6 lb.)	0.1g (0.0002 lb.)	300 × 225mm	30031708	**01-921-100**	480.00
R31P1502	1.5kg (3 lb.)	0.05g (0.0001 lb.)	300 × 225mm	30031707	**01-921-101**	480.00
R31P6	6kg (15 lb.)	0.2g (0.0005 lb.)	300 × 225mm	30031709	**02-112-220**	480.00
R31P15	15kg (30 lb.)	0.5g (0.001 lb.)	300 × 225mm	30031710	**02-112-221**	480.00
R31P30	30kg (60 lb.)	1g (0.002 lb.)	300 × 225mm	30031711	**02-112-222**	480.00

Ohaus™ Defender™ 3000 Washdown Bench Scales

Basic level washdown bench scale

Basic level bench scales for general industrial use and feature all stainless steel construction with NEMA 4X/ IP65 protected indicator. Application modes include weighing, simple parts counting and weighs in lb, oz, lb:oz, g or kg units.

- Internal rechargeable battery or universal AC power supply
- Large backlit LCD display and RS232 interface
- Tubular welded stainless steel frame/stainless steel column included
- IP and NEMA Rating
- Application Modes: weighing (5 units), basic parts counting
- Units of measurement: gram, kilogram, ounce, pound, pound:ounce
- LCD display with white LED backlight
- Internal universal power supply with internal rechargeable battery
- RS232 interface
- IP66 stainless steel indicator, 304 grade stainless steel platform pan with black painted steel tubular frame
- IP67 load cell
- Stainless steel column and wall bracket included
- Indicator with hinged front cover for easy servicing
- Platform with 5 or 6 point overload stops for 125% safe overload protection

Defender 3000 Washdown Bench Scales

Model	Capacity	Readability	Platform	Test Weight	Mfr. No.	Cat. No.	Each
D32XW30VR	66 lb. (30kg)	0.02 lb. (5g)	355 × 305mm	30kg, OIML M1 or ASTM CL F	80252898	**02-112-210**	1197.89
D32XW60VR	150 lb. (60kg)	0.05 lb. (10g)	355 × 305mm	60kg, OIML M1 or ASTM CL F	83999818	**02-112-211**	1202.00
D32XW60VL	150 lb. (60kg)	0.05 lb. (10g)	550 × 420mm	60kg, OIML M1 or ASTM CL F	83999819	**02-112-212**	1679.00
D32XW150VL	330 lb. (150kg)	0.05 lb. (20g)	550 × 420mm	150kg, OIML M1 or ASTM CL F	80252901	**02-112-213**	1672.72
D32XW150VX	330 lb. (150kg)	0.05 lb. (20g)	650 × 500mm	150kg, OIML M1 or ASTM CL F	80252902	**02-112-214**	2280.42
D32XW300VX	660 lb. (300kg)	0.2 lb. (50g)	650 × 500mm	300kg, OIML M1 or ASTM CL F	80252903	**02-112-215**	2280.42

Ohaus™ Defender™ 3000 Mechanical Bench Scale

A portable mechanical industrial scale designed to meet a variety of applications

02-112-216

Featuring an easy-to-read, dual-side flat beam with a shadow-proof poise provides quick reading under most lighting conditions. A positive beam lock secures the indicator when the scale is not in use. Counterpoise weights allow for scale capacities of up to 1000 pounds. The D500M scale utilizes a rugged fabricated steel design and is equipped with durable phenolic wheels for easy maneuverability.

- Heavy-duty mechanical epoxy-painted steel construction for industrial applications
- Phenolic wheels allow scale to be easily moved with beam lock to protect scale mechanism
- Includes counterpoise weights
- Application mode: weighing
- Units of measurement: Pound

Capacity	Readability	Platform	Test Weight	Mfr. No.	Cat. No.	Each
1000 lb.	0.5 lb.	28 × 19"	1000 lb., OIML M1 or ASTM CL F	80252735	**02-112-216**	1049.00

Ohaus™ Ranger™ Count 3000 Counting Scales

High-precision dedicated counting scale with advanced software for counting and packaging parts

With low Average Piece Weight (APW) alert and automatic APW recalculation, the Ranger Count offers 1:1,500,000 internal counting resolution to handle counting even the smallest parts precisely.

Standard Features

- Precise counting and weighing performance with 30 item library: 1:30,000 display resolution and 1:1,500,000 internal counting resolution
- User friendly counting scale on the market: large bright displays and SmarText™ navigation
- Rapid stabilization: Provides unmatched throughput and accurate results within one second
- More connectivity options: supports two-scale counting through the optional second platform to support weighing jobs that require a higher capacity platform or additional platform space
- Scale dimensions: (W × L × H) 12.2 × 12.9 × 4.6"

02-112-223

Application Mode

- Weighing: Determine the weight of items in one or more weighing units — lb, oz, lb:oz, kg or g
- Advanced parts counting: Count parts fast for packaging and inventory control uses, with added software for APW low alert and automatic recalculation of APW during sampling

COMPLIANCE:

Metrology: NIST Handbook 44 (NTEP CC 13-022), Measurement Canada weights and measures regulations (AM-5907C) and OIML R76-1 (R76/2006-NL1-12.46), (Class III, nmax 3000) (Counting function not certified/approved)

Product safety: CSA C22.2 61010-1, UL 61010-1

Electromagnetic compatibility: FCC Part 15 Class A, IEC 61326-1 (emissions Class B, immunity industrial requirements)

Model	Capacity	Readability	Platform	Mfr. No.	Cat. No.	Each
RC31P1502	1.5kg (3 lb.)	0.05g (0.0001 lb.)	300 × 225 mm	30031787	**02-112-223**	590.00
RC31P3	3kg (6 lb.)	0.1g (0.0002 lb.)	300 × 225 mm	30031788	**02-112-224**	590.00
RC31P6	6kg (15 lb.)	0.2g (0.0005 lb.)	300 × 225 mm	30031789	**02-112-225**	590.00
RC31P15	15kg (30 lb.)	0.5g (0.001 lb.)	300 × 225 mm	30031790	**02-112-226**	590.00
RC31P30	30kg (60 lb.)	1g (0.002 lb.)	300 × 225 mm	30031791	**02-112-227**	590.00

Ohaus™ Valor™ 7000 Compact Bench Scales

Reliable and durable scale that will increase food weighing and proportioning productivity

Standard Features

- Front and rear touchless sensors minimize scale contamination
- Dual backlit displays allow for quick and easy weighing by two operators
- Rapid stabilization provides unmatched throughput
- Standard connectivity with flexible options
- Approvals: Exceeds the standards set forth by multiple metrological and food safety regulatory bodies
- Portability and versatile power options
- Transportation handle

Application Modes

- Weighing: Determine the weight of items in the selected unit of measure
- Percent weighing: Measure the weight of a sample displayed as a percentage of a pre-established reference weight
- Check weighing/percent: Compare the weight/percent of a sample against target limits
- Accumulation: Totalization of weight or percent; Calculates total accumulated weight or percent of separate items

APPLICATIONS:
Weighing, checkweighing, checkpercent, percent weighing, accumulation

02-112-229

INCLUDES:
AC power or rechargeable battery

COMPLIANCE:

- Metrology: US NTEP 3000e
- Product safety: CAN/CSA-C22.2 No. 61010-1-04; UL Std. No. 61010-1 (2nd Edition)
- Electromagnetic compatibility: FCC, Part 15, Class A; EN61326-1:2006 (Class B); C-Tick
- Environmental protection: IP43
- Food safety: NSF; USDA
- Other: WEEE/ROHS

Model	Capacity	Readability	Platform	Mfr. No.	Cat. No.	Each
V71P3T	3kg (6 lb.)	0.1g (0.0002lb)	300 times × 225mm	30031828	**02-112-229**	499.00
V71P6T	6kg (15 lb.)	0.2g (0.0005lb)	300 times × 225mm	30031829	**02-112-230**	499.00
V71P15T	15kg (30 lb.)	0.5g (0.001lb)	300 times × 225mm	30031830	**02-112-231**	499.00
V71P30T	30kg (60 lb.)	1g (0.002lb)	300 times × 225mm	30031831	**02-112-232**	499.00

Ohaus™ BW Washdown Scales

A cost-effective portioning, packing and general weighing scale

Designed to provide fast, accurate weighing performance in dry and washdown environments.

- Easily washable NEMA4/IP65 ABS plastic housing
- Adjustable leveling feet and front panel level bubble
- Red LED display, adjustable brightness
- Software for weighing and over/under checkweighing
- 50-hour internal rechargeable battery for portability

INCLUDES:
AC adapter

01-919-23 Series

Capacity	3 lb. (1.5kg)	6 lb. (3kg)	15 lb. (6kg)
Readability	0.001 lb. (0.0005kg)	0.002 lb. (0.001kg)	0.005 lb. (0.002kg)
Stabilization Time	Within 2 seconds	Within 2 seconds	Within 2 seconds
Platform Size	230 × 180mm	230 × 180mm	230 × 180mm
Dimensions (L × W × H)	9 × 12.1 × 5" (23 × 31 × 12.7cm)	9 × 12.1 × 5" (23 × 31 × 12.7cm)	9 × 12.1 × 5" (23 × 31 × 12.7cm)
Net Weight	9.7 lb. (4.4kg)	9.7 lb. (4.4 kg)	9.7 lb. (4.4kg)
Weighing Modes	Weighing, Checkweighing, Percentage Weighing	Weighing, Checkweighing, Percentage Weighing	Weighing, Checkweighing, Percentage Weighing
Power	12VDC 0.84A AC Adapter	12VDC 0.84A AC Adapter	12VDC 0.84A AC Adapter
Battery	6V 5Ah rechargeable lead acid battery	6V 5Ah rechargeable lead acid battery	6V 5Ah rechargeable lead acid battery
Mfr. No.	80252740	80252168	80252742
Cat. No.	**01-919-231**	**01-919-232**	**01-919-233**
Each	471.45	471.45	471.45

Ohaus™ Checkweighing (CKW) Scales

Dedicated checkweighing scales built for applications requiring fast and accurate operation

Combining a food-safe design, durable stainless-steel construction and industry-leading software, CKW scales are easy to operate, yet allow full configuration to match different checkweighing needs.

Standard Features

- Washdown protection: all stainless-steel construction with IP66/NEMA 4X indicator and IP67 load cell
- Checkweighing setpoint configurability: set targets by range, variance by weight or percent
- Multiple checkweighing methods: positive into container, negative out of container, net for sorting and grading applications
- Programmable red/yellow/green LED graphical display bar with selectable LED over/under/accept display
- Dedicated target key and numeric keypad
- Software and hardware lockouts: CKW can be locked so that operators cannot accidentally change targets and settings
- Selectable weighing units: lb, oz, combined lb:oz display, % of target, kg, g
- 20-SKU library with SKU number, over, under, target, tare values
- Connectivity: configurable external input, RS-232 bidirectional port included with GMP/GLP data outputs for traceability requirements

Design Features

- Checkweighing indication: 3-color, 24-segment bar graph, beeper and/or display alert within selected checkweigh conditions
- Dedicated checkweighing target key with numeric keypad
- Selectable environmental averaging settings
- Adjustable span or linearity calibration in kg or lb unit with optional external masses
- Semi-automatic or automatic tare
- Adjustable auto-zero tracking; adjustable zeroing range
- Operating temperature: 14° to 104°F / -10° to 40°C
- NTEP — Legal for trade approved

ORDERING INFORMATION:

Optional accessories include a foot switch, rechargeable NiMH battery kit, rechargeable NiMH battery, AC/DC relay output kits and RS422/485 kit. Contact your Fisher Scientific™ Customer Service Representative for details.

01-919-201

CERTIFICATIONS:

- NSF listed/certified to NSF C-2, special equipment and/or devices (food service equipment); USDA/AMS accepted to NSF/3-A 14159-1-2002 (hygiene requirements for the design of meat and poultry processing equipment); meets requirements for HACCP conformity
- Electrical/Emissions: UL, FCC Class B Part 15 operation, Industry Canada Class B, CE EN60950, EN55022, EN50082-1, EN61326.
- Approved/Legal-for-Trade: OIML R76 Class III and EC Type Approval; approvals pending for NTEP Class III to NIST Handbook 44, Canada Weights and Measurement Class III
- Ohaus quality management system registered to ISO 9001:2000 by BVQI Specifications

Model	CKW3R55	CKW6R55
Capacity	6 lb. (3kg)	15 lb. (6kg)
Readability		
Non-type Approved	0.001 lb. (0.0005kg)	0.002 lb. (0.001kg)
Approvable†	0.002 lb. (0.001kg)	0.005 lb. (0.002kg)
Weighing Modes	lb, kg, g, oz, lb:oz, %	lb, kg, g, oz, lb:oz, %
Platform L × W × H	10 × 10 × 2 1/4" (25.4 × 25.4 × 5.8cm)	10 × 10 × 2 1/4" (25.4 × 25.4 × 5.8cm)
Column Height	11 3/4" (30cm)	11 3/4" (30cm)
Electrical Requirements		
Voltage	100-240VAC 50/60Hz Univ. power supply with hardwired cord	100-240VAC 50/60Hz Univ. power supply with hardwired cord
Battery	Optional internal rechargeable NiMH battery, 10-hr. life	Optional internal rechargeable NiMH battery, 10-hr. life
Mfr. No.	80251041	80251042
Cat. No.	**01-919-200**	**01-919-201**
Each	1525.07	1525.07

† *NTEP resolution; approval pending.*

Ohaus™ CL Portable Balances

For basic weighing with a simple two-button keypad

The CL Portable Balance is designed with a large weighing platform and can adequately handle large samples including oversized letters.

- ABS housing, ABS pan
- Low battery indicator
- Auto shut-off feature
- Mechanical and software overload protection
- External push-button calibration
- Liquid Crystal Display (LCD)
- RF protection for use near cell phones and production areas
- Rugged housing with integral platform ring for stacking and storage

INCLUDES: 3 AA Batteries (Included), (AC Adapter (Not included))

01-919-23 Series

Capacity	200g	2000g	5000g
Readability	0.1g	1g	1g
Stabilization Time	3 seconds	3 seconds	3 seconds
Dimensions (L × W × H)	8 × 5.7 × 1.8" (20.5 × 14.5 × 4.5cm)	8 × 5.7 × 1.8" (20.5 × 14.5 × 4.5cm)	8 × 5.7 × 1.8" (20.5 × 14.5 × 4.5cm)
Construction	ABS plastic housing and pan	ABS plastic housing and pan	ABS plastic housing and pan
Platform Size	120mm (circular)	120mm (circular)	120mm (circular)
Power	AC adapter (optional accessory)	AC adapter (optional accessory)	AC adapter (optional accessory)
Battery	300 hours with alkaline cells	300 hours with alkaline cells	300 hours with alkaline cells
Net Weight	0.875 lb. (0.4kg)	0.875 lb. (0.4kg)	0.875 lb. (0.4kg)
Weighing Modes	Weighing	Weighing	Weighing
Mfr. No.	CL201	80010611	80010612
Cat. No.	**01-919-234**	**01-919-235**	**01-919-236**
Each	90.10	90.10	122.60

Ohaus™ CS Series Compact Scales

Lightweight, portable electronic scales, ideal for work outside of the lab

Suited for a wide range of applications, including quality control, formulations, postal weighing, forensic testing and soil and water sampling, and dietary needs.

- Easy to operate with simple two-button operation with standard stainless steel pan
- Three low-profile models with weighing capacities from 200 to 5000g
- Low-battery indicator, overload/underload indicators, tactile feedback keyboard and auto shutoff
- Quick, easy calibration allows user to adjust for changes in location and temperature
- Rugged construction provides overload protection up to 150% of capacity
- Powered by three AA batteries (included) or by included AC adapter
- Weighs in g, lb:oz, Newton, oz
- Net weight: 0.91 lb. (0.47kg)
- Manufactured in ISO 9001 registered facility

ORDERING INFORMATION:
Dimensions (L × W × H):
7.625 × 5.312 × 1.5" (19.3 × 13.5 × 3.9cm).

01-919-33

INCLUDES: Three AA batteries, stainless-steel weighing pan, AC adapter

WARRANTY: One-year (U.S. and Canada)

CERTIFICATIONS: ISO 9001 compliant

Readability	0.1g	1.0g	0.1g
Capacity	200g	2000g	200g
Stabilization Time	3 seconds	3 seconds	3 seconds
Linearity	±0.1g	±1.0g	±0.1g
Platform Size	145 × 133mm	145 × 133mm	145 × 133mm
Dimensions (L × W × H)	20.3 × 14.0 × 3.8cm	20.3 × 14.0 × 3.8cm	20.3 × 14.0 × 3.8cm
Power	3-AA alkaline batteries (included)	3-AA alkaline batteries (included)	3-AA alkaline batteries (included)
Power Requirements	AC adapter (included)	AC adapter (included)	AC adapter (included)
Weighing Modes	g, lb:oz, Newton, oz	g, lb:oz, Newton, oz	g, lb:oz, Newton, oz
Mfr. No.	CS200-001	72212664	CS200P-0W0
Cat. No.	**01-919-33**	**01-919-34**	**01-918-019**
Each	169.80	169.80	183.50

Ohaus™ Defender™ 3000 Bench Scales

Economical, versatile

Weigh up to 600 lb. (300kg) with 1:6000-7500d resolution.

- 304 stainless steel pan with painted carbon steel frame and aluminum IP67 load cell
- Adjustable nonslip rubber leveling feet with external level indicator
- T31P with ABS housing or T31XW with IP66 stainless-steel housing
- Multiple weighing units include lb., oz., lb:oz, kg, g
- Parts counting mode with selectable sample sizes, last sample size and average piece weight data
- One 25mm-high LCD weight display with high-contrast backlight
- Built-in RS232 for printing and data connection
- AC adapter and internal rechargeable lead acid battery

INCLUDES:
RS-232 cable

Capacity	Mfr. No.	Cat. No.	Each
30kg × 0.005kg	83998111	**01-919-800**	703.57
60kg × 0.01kg	83998112	**01-919-801**	693.84
60kg × 0.02kg	83998113	**01-919-802**	880.10
150kg × 0.02kg	83998114	**01-919-803**	868.19
300kg × 0.05kg	83998116	**01-919-804**	930.00

Ohaus™ Defender™ 5000 Bench Scales with Rectangular Base

Portable scale for shipping and inventory

Ideal for routine weighing, shipping and basic applications, including parts counting, checkweighing, percent weighing, dynamic weighing and display hold for weighing large packages. Readability as precise as 0.005lb. (0.002kg).

- Prewired and fully assembled
- Factory set and factory calibrated
- Adjustable, easy to read backlit LCD measures 1" (2.5cm) with three checkweighing LEDs
- Consists of stainless-steel platform with leveling feet and leveling bubble, indicator mounting column and T51P indicator with power supply and line cord
- Five user-selectable weighing units (g, kg, lb, oz, lb:oz) and user-defined custom unit
- Net/gross/tare function
- Auto-off timer eliminates battery drain
- RS-232-C bidirectional interface
- Operates on batteries or AC

INCLUDES:
Universal switching (100-240 VAC/50-60Hz) power supply.

REQUIRES:
Six alkaline C batteries. (Rechargeable NiMH batteries optional.)

CERTIFICATIONS:
CE marked; UL listed; CSA listed.

02-113-31

Model	D51P15HR1	D51P30HR1	D51P60HR1	D51P300HX2
Capacity	30 lb. (15kg)	60 lb. (30kg)	120 lb. (60kg)	600 lb. (300kg)
Readability	0.005 lb. (0.002kg)	0.01 lb. (0.005kg)	0.02 lb. (0.01kg)	0.1 lb. (0.05kg)
Weighing Modes	g, kg, lb, oz, lb:oz, custom unit	g, kg, lb, oz, lb:oz, custom unit	g, kg, lb, oz, lb:oz, custom unit	g, kg, lb, oz, lb:oz, custom unit
Stabilization Time	≤3 sec.	≤3 sec.	≤3 sec.	≤3 sec.
Platform L × W × H	12 × 14 × 3 3/4" (31× 36 × 9.5cm)	12 × 14 × 3 3/4" (31× 36 × 9.5cm)	12 × 14 × 3 3/4" (31× 36 × 9.5cm)	17 × 22 × 5" (42 × 55 × 12.5cm)
Column Height	14" (35cm)	14" (35cm)	14" (35cm)	27" (68cm)
Electrical Reqts.	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply
Battery	6 alkaline "C" batteries	6 alkaline "C" batteries	6 alkaline "C" batteries	6 alkaline "C" batteries
Mfr. No.	80500511	80500512	80500513	80500516
Cat. No.	**02-113-31**	**02-113-32**	**02-113-33**	**02-113-37**
Each	1163.81	1183.00	1183.00	1586.35

Ohaus™ Defender™ 5000 Washdown and Dry Bench Scales

Rugged and versatile scales provide precision weighing during the most demanding applications

Modes for animal weighing, percent weighing, check weighing and display hold for large containers. Readability to 0.002 lb. (0.001kg). Operate on internal AC power supply or optional NiMH batteries.

- All stainless-steel construction withstands use in wet environments and provides excellent chemical resistance
- Factory calibrated
- Large, remote stainless-steel platform
- Stainless-steel column and indicator unit with IP66/NEMA 4X washdown protection
- Large, 1" high, easy-to-read, backlit LCD with three checkweighing LEDs
- Six weighing units (kg, g, lb., oz., lb.:oz.) and user-defined custom unit

REQUIRES:
Six alkaline "C" batteries (NiMH batteries optional).

CERTIFICATIONS:
UL listed; CE marked; CSA listed, IP66/NEMA 4X rated, NTEP Certified/measurement Canada approved.

02-113-43

Model	D51XW10WR3	D51XW25WR3	D51XW50WL4	D51XW100WL4	D51XW250WX4
Capacity	25 lb. (10kg)	50 lb. (25kg)	100 lb. (50kg)	250 lb. (100kg)	500 lb. (250kg)
Readability	0.002 lb. (0.001kg)	0.01 lb. (0.005kg)	0.01 lb. (0.005kg)	0.02 lb. (0.01kg)	0.05 lb. (0.02kg)
Weighing Modes	g, kg, lb., oz., lb.:oz., custom unit	g, kg, lb., oz., lb.:oz., custom unit	g, kg, lb., oz., lb.:oz., custom unit	g, kg, lb., oz., lb.:oz., custom unit	g, kg, lb., oz., lb.:oz., custom unit
Stabilization Time	≤3 sec.	≤3 sec.	≤3 sec.	≤3 sec.	≤3 sec.
Platform L × W × H	12 × 12 × 3.75" (30 × 30 × 9.7cm)	12 × 12 × 3.75" (30 × 30 × 9.7cm)	18 × 18 × 3.75" (45 × 45 × 9.5cm)	18 × 18 × 3.75" (45 × 45 × 9.5cm)	24 × 24 × 5" (60 × 60 × 12.7cm)
Indicator W × D × H	10.25 × 3 × 5.75" (26.2 × 7.6 × 14.9cm)	10.25 × 3 × 5.75" (26.2 × 7.6 × 14.9cm)	10.25 × 3 × 5.75" (26.2 × 7.6 × 14.9cm)	10.25 × 3 × 5.75" (26.2 × 7.6 × 14.9cm)	10.25 × 3 × 5.75" (26.2 × 7.6 × 14.9cm)
Electrical Requirements					
Voltage	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply
Battery	Optional NiMH	Optional NiMH	Optional NiMH	Optional NiMH	Optional NiMH
Mfr. No.	80501214	80501215	80501216	80501217	80501218
Cat. No.	**02-113-43**	**02-113-44**	**02-113-45**	**02-113-46**	**02-113-47**
Each	1897.00	1897.00	2380.00	2380.00	3190.00

Ohaus™ Defender™ 5000X Xtreme Rectangular Scales

Rugged, feature-rich scale meets the needs of demanding industrial and lab applications

Ideal for shipping and receiving, production, packaging and general commercial and industrial weighing applications. Multifunctional indicator with multiple weighing units and software modes. Comprehensive yet intuitive software and multiple connectivity options. Once configured, the high performance indicator can be set to lock-out one or more menu options as well as calibration. It can also be set to lock out specific keys in order to minimize user error.

02-113-6 Series

Standard Features:

- All-steel construction with stainless-steel indicator and painted steel column and base
- 5000 to 7500d default resolution
- Quick display of results on large LCD with high-contrast white backlight
- Simple to use, four-key membrane keypad with raised tactile keys
- User-selectable weighing units include lb, oz, lb:oz (decimal), kg, g, tonnes and user-definable custom unit
- Multiple weighing modes include parts counting, percent weighing, dynamic/animal weighing, checkweighing and display hold
- RS-232 interface with GMP/GLP data output including date, time, user ID, project ID and scale ID
- Security features include software lockouts for menu items as well as individual key functions

Advanced Features:

- Temporary display of 10X readability in weighing mode with a quick key press
- Zero point calibration, calibration test, span or linear calibration
- Selectable auto-zero tracking range, stability range, averaging level
- Retain zero weight data after power-off, geo gravity adjustment
- Selectable key beep, selectable power-on and calibration unit
- Indication of stability, center of zero, over and underweight, over and underload conditions
- Optional interfaces include DC relay control kit; AC relay control kit; and a second RS-232 and RS-422/485

Weighing Modes:

- Counting mode for packaging and inventory control, enabling counting into or out of a container for bulk operations
- Percent weighing mode for formulation and mixing applications
- Dynamic/animal weighing with selectable weigh times from 0 to 60 seconds
- Checkweighing function for packaging and weight checking
- Display hold mode for weighing large packages holds last stable weight on display until cleared

COMPLIANCE:
Safety and EMC: C-UL US 2005/95/EC low voltage directive: EN60950-1:2001, FCC Part 15 Class A 2004/108/EC. EMC directive: EN61326-1:1997; +A1:1998; +A2:2001; +A3>2003. Quality: Ohaus quality management system registered to ISO 9001:2000. Compliant to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE).

Model	D51XW15HR1	D51XW30HR1	D51XW60HR1	D51XW60HL2	D51XW100HL2
Capacity	30 lb. (15kg)	60 lb. (30kg)	150 lb. (60kg)	150 lb. (60kg)	250 lb. (100kg)
Readability	0.005 lb. (0.002kg)	0.01 lb. (0.005kg)	0.02 lb. (0.01kg)	0.02 lb. (0.01kg)	0.05 lb. (002kg)
Weighing Modes	lb., oz., lb:oz., kg, g, custom unit	lb., oz., lb:oz., kg, g, custom unit	lb., oz., lb:oz., kg, g, custom unit	lb., oz., lb:oz., kg, g, custom unit	lb., oz., lb:oz., kg, g, custom unit
Stabilization Time	2 sec.	2 sec.	2 sec.	2 sec.	2 sec.
Platform L × W × H	14 × 12 × 3.7 in (35.5 × 30.5 ×; 9.5cm)	14 × 12 × 3.7 in (35.5 × 30.5 × 9.5cm)	14 × 12 × 3.7 in (35.5 × 30.5 × 9.5cm)	19.7 × 115.7 ×; 4.1 in (50 × 40 × 10.5cm)	19.7 × 115.7 × 4.1 in (50 ×; 40 × 10.5cm)
Column Height	13.8 in (35cm)	13.8 in (35cm)	13.8 in (35cm)	26.8 in (68cm)	26.8 in (68cm)
Electrical Reqts.	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply	Internal switching (100-240VAC 50-60Hz) power supply
Battery	Optional internal rechargeable NiMH battery	Optional internal rechargeable NiMH battery	Optional internal rechargeable NiMH battery	Optional internal rechargeable NiMH battery	Optional internal rechargeable NiMH battery
Mfr. No.	80500907	80500908	80500909	D51XW60HL2	80500911
Cat. No.	**02-113-64**	**02-113-65**	**02-113-66**	**02-113-67**	**02-113-68**
Each	1409.74	1415.00	1409.74	1612.14	1618.00

Ohaus™ ES Series Digital Bench Scales

Portable digital scale with easy, two-button operation

- ON/OFF/ZERO key turns scale on and automatically sets it to zero
- CAL/UNITS key changes weighing unit and calibrates scale when used with an external weight (not supplied)
- Separate indicator with easy-to-read 1" (2.5cm) LCD
- Large platform easily accommodates weighing of oversized and awkwardly shaped packages
- Low-profile design makes balances completely portable
- Unique three-way mounting bracket mounts the indicator to the scale base, above the scale platform or on any vertical surface
- Stainless-steel platforms provide excellent chemical resistance; painted steel frames
- Factory set and factory calibrated, with four user-selectable weighing units: kg, lb., oz., lb.:oz.
- Error indicator for over- and under-loads
- Low-battery indicator; stability indicator
- Auto shutoff (after five minutes of inactivity) prolongs battery life
- Models 02-113-09, -10 and -11 have leveling feet
- Model 02-113-11 has only kg, lb. and oz. units

02-113-07

INCLUDES:
9V DC, 500mA AC adapter

REQUIRES:
Six AA alkaline batteries

International models available. Contact your Fisher Scientific Customer Service Representative for more information.

Capacity	Readability	Platform Size	Mfr. No.	Cat. No.	Each
13.25 lb. (6kg)	0.005 lb. (0.002kg)	12.187 × 10.812 × 1.5" (31 × 27 × 4cm)	71138830	**02-113-06**	753.00
66 lb. (30kg)	0.05 lb. (0.02kg)	12.187 × 10.812 × 1.5" (31 × 27 × 4cm)	71138831	**02-113-07**	753.00
110 lb. (50kg)	0.05 lb. (0.02kg)	12.187 × 10.812 × 1.5" (31 × 27 × 4cm)	71138832	**02-113-08**	753.00
110 lb. (50kg)	0.05 lb. (0.02kg)	20.5 × 15.687 × 3" (52 × 40 × 7.5cm)	71138833	**02-113-09**	789.50
220 lb. (100kg)	0.1 lb. (0.05kg)	20.5 × 15.687 × 3" (52 × 40 × 7.5cm)	71138834	**02-113-10**	789.50
440 lb. (200kg)	0.2 lb. (0.1kg)	20.5 × 15.687 × 3" (52 × 40 × 7.5cm)	71138835	**02-113-11**	789.50

ACCESSORIES

Ohaus™ Explorer™ Tower Mount Kit for Display

For use with Ohaus Explorer Balances

Can be used with Ohaus Explorer models: EX124, EX224, EX324, EX223, EX423, EX623, EX1103, EX2202, EX4202, EX6202, EX10202, EX6201, EX10201.

- Color: Silver
- Material: Steel
- Overall Length: 36" (91.4cm)
- Weight: 6 lb.

Description	Mfr. No.	Cat. No.	Each
Tower Mount for Display	83021102	**01-919-321**	118.62

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

Ohaus™ FD Food Portioning Scales

Speed, durability and cleanliness; designed for food service use

Ideally suited for food preparation in restaurants, bakeries, food manufacturing and other areas requiring fast operation and flexibility. Also excellent for general weighing applications.

02-113-27

Standard Features

- Rugged stainless-steel construction
- Removable, dishwasher-safe, stainless-steel weighing pan
- Simple 4-key operation and plain-text menu for fast setup
- 3/4" high backlit LCD display with text annunciators
- Fast display update (under 2 seconds); large, dedicated tare key
- Auto tare for hands-free operation
- Optional foot tare switch for hands-free operation
- Checkweighing mode included with advanced features
- 3-LED indication of Over, Accept and Under with audible buzzer
- Positive mode for packaging, negative checkweighing mode for portioning, and "zero" checkweighing mode for sorting and grading operations
- Dedicated Target key for entry of setpoints for checkweighing mode

Advanced Features

- Selectable environmental averaging settings
- Backlight control with auto-off option
- Selectable weighing units
- Configurable checkweighing mode audible buzzer
- Configurable software lockout menu
- Span or linearity calibration in kg or lb. unit with optional external masses
- Selectable auto-zero tracking
- NTEP — Legal for Trade certified
- Low-battery detection system
- Adjustable feet with integrated level bubble

COMPLIANCE:

- NSF listed/certified to NSF/ANSI™ 169-2005 (formerly NSF C-2)
- USDA-AMS accepted to NSF/ANSI/3-A 14159-1-2002 (Hygiene Requirements for the Design of Meat and Poultry Processing Equipment)
- Meets requirements for HACCP conformity
- C-UL US listed, AS/NZS4251.1; Emission, AS/NZS4252.1; Immunity, tested for compliance to FCC Class B Part 15 operation
- NTEP Class III to NIST™ Handbook 44, Measurement Canada certified to Class III, OIML R76 Class III

Model	**FD3**	**FD6**	**FD15**
Capacity	6 lb. (3kg)	15 lb. (6kg)	30 lb. (15kg)
Readability	0.001 lb. (0.0005kg)	0.002 lb. (0.001kg)	0.005 lb. (0.002kg)
Repeatability	0.5g	1g	2g
Weighing Modes	lb., oz. (fractional or decimal), g, kg, combined lb.:oz. display	lb., oz. (fractional or decimal), g, kg, combined lb.:oz. display	lb., oz. (fractional or decimal), g, kg, combined lb.:oz. display
Scale L × W × H	9 × 12 × 2.75" (30 × 22.3 × 7.1cm)	9 × 12 × 2.75" (30 × 22.3 × 7.1cm)	9 × 12 × 2.75" (30 × 22.3 × 7.1cm)
Pan Size	8.25 × 8.25" (20.9 × 20.9cm)	8.25 × 8.25" (20.9 × 20.9cm)	8.25 × 8.25" (20.9 × 20.9cm)
Electrical Requirements			
Voltage	9VCD 0.5A AC wall adapter, 100-120VAC 50/60Hz	9VCD 0.5A AC wall adapter, 100-120VAC 50/60Hz	9VCD 0.5A AC wall adapter, 100-120VAC 50/60Hz
Battery	Internal rechargeable sealed lead-acid battery w/120 hours continuous use	Internal rechargeable sealed lead-acid battery w/120 hours continuous use	Internal rechargeable sealed lead-acid battery w/120 hours continuous use
Mfr. No.	83998117	83998118	83998119
Cat. No.	**02-113-25**	**02-113-26**	**02-113-27**
Each	892.00	892.00	890.40
FD High-Resolution Scales			
Model	**FH3H**	**FD6H**	**FD15H**
Capacity	6 lb. (3kg)	15 lb. (6kg)	30 lb. (15kg)
Readability	0.1g	0.2g	1g
Weighing Modes	lb., g, kg, oz., lb.:oz. with $^1/_2$, $^1/_4$ and $^3/_4$ fractional increments	lb., g, kg, oz., lb.:oz. with $^1/_2$, $^1/_4$ and $^3/_4$ fractional increments	lb., g, kg, oz., lb.:oz. with $^1/_2$, $^1/_4$ and $^3/_4$ fractional increments
Mfr. No.	83998147	83998148	83998149
Cat. No.	**02-113-28**	**02-113-29**	**02-113-30**
Each	864.50	854.00	864.50

Ohaus™ Valor™ 3000 Compact Food Scales

Stainless-steel design in a high-performance, easy-to-use, portable scale

- Software for weighing, percent weighing and specific gravity determination
- All stainless-steel construction
- Compact space-saving footprint
- AC adapter (supplied) or 4 C batteries
- Adjustable levelling feet and bubble (only for XW models)
- Load cell lock, user adjustable filtering and optional food accessories

COMPLIANCE:
Supports HACCP compliance; washable models available.

CERTIFICATIONS:
NSF Certified

02-115-331

Capacity	4kg	400g	500g
Readability	0.01g	0.1g	0.1g
Stabilization Time	3 seconds or less	3 seconds or less	3 seconds or less
Weighing Modes	Simple weighing, percent weighing, combined zero/tare, specific gravity (S)	Simple weighing, percent weighing, combined zero/tare, specific gravity (S)	Simple weighing, percent weighing, combined zero/tare, specific gravity (S)
Dimensions (L × W × H)	8.5 × 7.3 × 3" (21.8 × 18.6 × 7.7cm)	8.5 × 7.3 × 3" (21.8 × 18.6 × 7.7cm)	8.5 × 7.3 × 3" (21.8 × 18.6 × 7.7cm)
Platform Size	158 × 146mm	158 × 146mm	158 × 146mm
Power	9 VDC 0.5A AC wall adapter 100-120V AC, 50.60 Hz (included)	9 VDC 0.5A AC wall adapter 100-120V AC, 50.60 Hz (included)	9 VDC 0.5A AC wall adapter 100-120V AC, 50.60 Hz (included)
Battery	Four 1.5 volt C batteries (not included)	Four 1.5 volt C batteries (not included)	Four 1.5 volt C batteries (not included)
Mfr. No.	83998178	83998177	83998176
Cat. No.	**02-115-331**	**02-115-332**	**02-115-333**
Each	818.50	844.52	486.50

Ohaus™ Valor™ 3000 Xtreme Portable Scale

Compact portioning scale offers high precision and extreme durability for the harshest environments

High Precision NSF certified and listed scale with USDA/AMS accepted housing features the accuracy of the Scout™ Pro with precision up to 20,000d. User-selectable filtering, auto-zero tracking and stability settings enable use in drafty, unstable environments.

- Full T304 stainless-steel housing, removable stainless-steel weighing pan
- Corrosion-resistant keyboard: great for areas where harsh chemicals are used
- SmarText™ user interface utilizes bright, backlit LCD plus simple text prompts
- Overload protection rated at 10x capacity
- Percentage weighing mode can automatically compute Baker's Percentages
- Specific Gravity Mode offers rapid, easy determination without need for manual calculations — great for checking density, aeration of mixes
- Waterproof models (V31XW3, V31XW6) feature full NEMA 4X/IP65 protection and up-front level bubble and NTEP certified models available

INCLUDES:
AC adapter

COMPLIANCE:
EMC Approvals:
FCC Class B, Industry Canada, CE.

CERTIFICATIONS:
NSF Meets requirements for HACCP conformity, USDA/AMS, UL and CE, NTEP certified models V31XW3, V31XW6

02-115-34

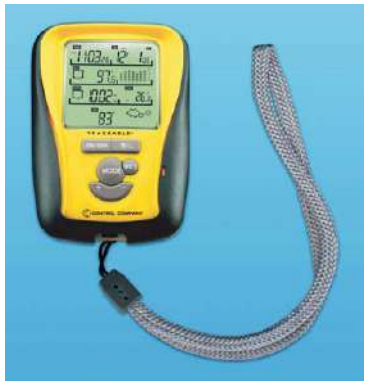
Model	**83998130**	**83998131**	**83998132**	**83998133**	**83998135†**	**83998136†**	**V31XW301†**
Capacity	200g	2000g	3000g	6000g	3000g	6000g	300g
Readability	0.01g	0.1g	1g	1g	1g	2g	0.2g
Weighing Modes	lb., kg, g, oz., lb.:oz., fl.:oz.	lb., kg, g, oz., lb.:oz., fl.:oz.	lb., kg, g, oz., lb.:oz., fl.:oz.	lb., kg, g, oz., lb.:oz., fl.:oz.	lb., kg, g, oz., lb.:oz., fl.:oz.	lb., kg, g, oz., lb.:oz., fl.:oz.	lb., kg, g, oz., lb.:oz., fl.:oz.
Stabilization Time	≤2 sec.	≤2 sec.	≤2 sec.	≤2 sec.	≤2 sec.	≤2 sec.	≤2 sec.
Dimensions (D × W × H)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)	8.5 × 7.25 × 2.5" (21.8 × 18.5 × 6.3cm)
Pan Size	4.75" dia. (12cm)	5.75 × 6.25" (14.6 × 15.8cm)	5.75 × 6.25" (14.6 × 15.8cm)	5.75 × 6.25" (14.6 × 15.8cm)	5.75 × 6.25" (14.6 × 15.8cm)	5.75 × 6.25" (14.6 × 15.8cm)	5.75 × 6.25" (14.6 × 15.8cm)
Electrical Reqts.	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz
Battery	4 "C" size batteries	4 "C" size batteries	4 "C" size batteries	4 "C" size batteries	4 "C" size batteries	4 "C" size batteries	4 "C" size batteries
Mfr. No.	83998130	83998131	83998132	83998133	83998135	83998136	83998134
Cat. No.	**02-115-30**	**02-115-31**	**02-115-32**	**02-115-33**	**02-115-34**	**02-115-35**	**02-115-550**
Each	665.00	665.00	451.50	451.50	529.97	543.00	543.00

† *Waterproof.*

Barometers

Fisher Scientific™ Traceable™ Handheld Digital Barometer

Keep track of your environment and your time with this multifunctional handheld barometer



02-406

- Measures and digitally displays temperature, altitude and barometric pressure
- Stopwatch/time of day clock
- Barometric pressure trend displays current reading and previous 2, 4, 6, 8, 10 and 12 hours in a bar chart format
- Minimum/maximum memory for altitudes reached during any time period

INCLUDES:
Supplied with lanyard and two button-cell batteries. Comes in rugged shock-resistant case.

COMPLIANCE:
Traceable to standards provided by NIST™. Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA.

Specifications	
Atmospheric Pressure	
Range	15.90 to 31.01"Hg/400 to 1070mbar
Resolution	0.03"Hg/1mbar
Accuracy	±0.1477 "Hg/±8mbar
Adjustable Altitude Compensation	-500 to +7000m
Altimeter	
Range	-1640 to +22,965'/-500 to +7000m
Resolution	1m/1'
Response Time	Readings are updated every two seconds
Temperature	
Range	-40° to +158°F/-40° to +70°C
Resolution	0.1°
Accuracy	±2°F/±1°C
Response Time	Updates every 10 seconds
Time	
Range	Times events from 1 second to 99 hours, 59 minutes, 59 seconds
Resolution	1 second
Accuracy	Time accuracy: 0.01%

Description	Cat. No.	Each
Handheld Digital Barometer	**02-406**	275.00
Handheld Digital Barometer (No Battery)	**02-261-958**	200.00

Fisher Scientific™ Traceable™ Hygrometer/Thermometer/ Barometer/Dew Point Pen

Barometer measures pressure in three different units

15-078-198

User selectable dual display shows humidity/temperature, humidity/dew point, barometer/temperature or barometer/humidity. Displays several units of measure: inches of mercury (inHg) from 0.29 to 32.48 with a resolution of 0.01, millibars (hPa) from 10.0 to 1100 with a resolution of 0.1 and 1hPa and millimeters of mercury (mmHg) from 7.5 to 825.0 with a resolution of 0.1mmHg.

- Lightweight, compact design features an electronic capacitance
- Tough ABS plastic housing (1.50 × 8 × 1.50")
- Water-resistant; O-ring sealing
- High contrast 0.375" high LCD digits
- Membrane keypads provide longer durability
- HOLD button freezes the reading on the display
- At the press of a button, unit recalls minimum/maximum readings

INCLUDES:
Four "AAA" batteries

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Hygrometer/Thermometer/Barometer/Dew Point Pen	**15-078-198**	182.30

Fisher Scientific™ Traceable™ Precision Dial Barometers

Ideal for monitoring weather changes or environmental conditions in labs or plants

14-648-51

- Easy-to-read dial face is 4.12" dia. (10.8cm)
- Housed in chrome case
- Manual pointer shows barometric change since last viewing
- Screw adjustment compensates for altitude

ORDERING INFORMATION:
Net weight: 1 lb. (0.45kg).

INCLUDES:
Notched desk stand and wall mount

COMPLIANCE:
Individually serial-numbered certificate from an ISO 17025 calibration lab to indicate instrument traceability to standards provided by NIST™.

Specifications	
Atmospheric Pressure	
Range:	954 to 1073mbar, 715 to 805mmHg and 28.1 to 31.7"Hg
Resolution:	0.5mbar, 0.05"Hg, and 0.5mmHg
Accuracy:	±0.5% of the reading

Description	Cat. No.	Each
Traceable Precision Dial Barometer	**14-648-51**	136.90

FOR ADDITIONAL BAROMETERS

Visit www.fishersci.com and search for Barometers

Fisher Scientific™ Wireless Weather System

Complete professional weather station is perfect for industrial plants, labs, and schools

02-402

Allows user to monitor conditions, forecast weather and check environmental air parameters. Main unit receives radio signal from remote wireless sensors, eliminating need for cables. Place main unit anywhere.

- Programmable alarms for all measurements signal out-of-range conditions
- Minimum/maximum readings may be displayed for all measurements
- Data logger holds up to 291 days of data
- Main unit receives a radio signal from the remote wireless sensors
- Serial data output permits linking to a computer for storing all information, making a permanent weather database, generating analysis and studying trends

ORDERING INFORMATION:
Unit dimensions: 7.5 × 5.75 × 1.5" (19 × 14.6 × 3.8cm).
Display dimensions: 6 × 3.5" (15.2 × 8.9cm).

INCLUDES: Instructions, all equipment, all sensors (additional external sensors are available), AC adapter, and four "AA" backup batteries (eliminating concerns about power outages).

Specifications	
Temperature	
Indoor Range:	0° to 50°C (32° to 122°F)
Outdoor range:	-50° to +70°C (-58° to +158°F)
Resolution	0.1°
Relative Humidity	
Range	2 to 98% (Indoor/Outdoor)
Resolution	1% RH
Dew Point	
Indoor range:	32° to 120°F/0° to 49°C
Outdoor range:	14° to 140°F/-10° to +60°C
Resolution	1°C
Absolute Barometric Pressure†	
Range	700 to 1050 mbar and 20.67 to 31.01 in Hg
Resolution	1 mb
Wind Speed	
Range	Outdoor: 2 to 56m/sec.
Resolution	0.2m/sec.
Atomic Clock	
Range	24 hr. (AM/PM)
Resolution	1 min.

†Includes sea level reference, pressure trend indicator and weather forecasting with symbols (sunny, cloudy, rainy).

Description	Cat. No.	Each
Wireless Weather System	**02-402**	728.00

Before You Buy Isotemp™ General Purpose Water Baths

Fisher Scientific

Our focus is to accelerate your productivity, so you can open doors to discovery faster. Optimize your value and performance and select the Isotemp™ General Purpose Water Bath that is right for your application needs.

Capacity, performance and ease-of-use in a compact design

Fisher Scientific™ Isotemp General Purpose Water Baths are available in 14 models with 7 different sizes to meet a variety of application requirements.

- Capacity ranges from 2L to 28L
- Front-mounted controls offer easier access and safer operations
- Compact footprint optimizes laboratory bench space

Powerful Technology in a Compact Design

- Corrosion-resistant exterior with easy-to-clean enamel coating
- Low bath profile and front-panel controls allow for easier access and safer operation
- Rounded reservoir corners and diffuser trays with finger holes allow for easy removal and cleaning
- Removable cover lifts to 90° stay-open position or can be removed completely by a quick release to accommodate large glassware
- Hinged gable cover includes fins to protect hands from hot vapors
- Acrylic lid included

Working with specialty fluids? Ask about our Stainless Steel Gable Covers.

Shallow-form models 102S and 202S models

- Ideal for heating samples in microcentrifuge tubes and for other molecular biology procedures

Models 110, 115, 120, 128, 210, 215, 220 and 228

- Include drain pump to empty reservoir

Models 220 and 228

- Optimize bench space with a movable control panel that mounts to either the long or short side of the bath

Isotemp Digital Control Water Baths

Temperature Range with Lid	Temperature Accuracy at 37°C	Temperature Uniformity at 37°C	Temperature Stability at 37°C	Temperature Control/Display	Resolution	Voltage
Ambient to 100°C (212°F)	± 0.5°C	± 0.24°C	± 0.5°C	PID/Digital*	± 0.1°C	120V 50/60HZ

**Microporcessor PID Control*

Model Number	202	202S (Shallow)	205	210	215 (Dual Chamber)	220	228
Cat. No	**15-462-2Q**	**15-462-2SQ**	**15-462-5Q**	**15-462-10Q**	**15-462-15Q**	**15-462-20Q**	**15-462-28Q**
Reservoir Capacity	0.5 gal (2L)	0.5 gal (2L)	1.32 gal (5L)	2.64 gal (10L)	1.38/2.64 gal (5L/10L)	5.28 gal (20L)	7.38 gal (28L)

Isotemp Analog Control Water Baths

Temperature Range with Lid	Temperature Uniformity at 37°C	Temperature Stability at 37°C	Temperature Control/Display	Voltage	Resolution	Voltage
Ambient to 100°C (212°F)	± 0.2°C	± 0.2°C	Analog	120V 50/60HZ	± 0.1°C	120V 50/60HZ

Model Number	102	102S (Shallow)	105	110	115 (Dual Chamber)	220	128
Cat.No.	**15-460-2Q**	**15-460-2SQ**	**15-460-5Q**	**15-460-10Q**	**15-460-15Q**	**15-460-20Q**	**15-460-28Q**
Reservoir Capacity	0.5 gal (2L)	0.5 gal (2L)	1.32 gal (5L)	2.64 gal (10L)	1.38/2.64 gal (5L/10L)	5.28 gal (20L)	7.38 gal (28L)

Baths

General Purpose

Fisher Scientific™ HiTemp™ Bath

Ideal for applications requiring temperatures above 100°C (212°F)

11-481Q

Just place appropriate heating media — water, oil, bath wax or sand — in bath bowl. Attach sample container to accessory support rod at top rear of bath, flip on power switch and select temperature with front control knob.

- Operates from ambient temperature to 275°C (527°F)
- Factory-calibrated temperature controller with back-up safety relay ensures quick response and minimal overshoot
- Controls the 1250w heater and maintains bath constancy to ±2°C
- Cabinet is packed with insulation to minimize heat loss
- Cast-aluminum bowl holds round- or flat-bottom container with up to 1 gal. (4L) capacity
- Top rim controls spills and overflows
- Rugged, cold-rolled steel cabinet is finished with baked acrylic enamel for easy maintenance

ORDERING INFORMATION:
With 3-wire cord and plug. Unit has 0.5 × 27 threaded hole for mounting accessory support rod; order separately. Bath oil available separately.

WARRANTY:
One year

CERTIFICATIONS:
CSA approved

Specifications	
Temperature Range	Ambient to 275°C (527°F)
Capacity	1.25 gal. (5L)
Reservoir L × W × D	8 × 8 × 6" (20 × 20 × 15cm)
Overall L × W × H	13.5 × 13.5 × 12" (34 × 34 × 30cm)
Electrical Requirements	120V 50/60Hz, 11A

Electrical Requirements	Cat. No.	Each
120V 50/60Hz, 11A	**11-481Q**	1449.23

Fisher Scientific™ Isotemp™ Digital-Control and Analog-Control Water Baths

Ideal for industrial, clinical, pharmaceutical or biomedical procedures

Isotemp Water Baths

Microprocessor PID Control

- ±0.24°C uniformity, ±0.5°C accuracy and stability at 37°C
- Display shows °C or °F; easy to read from across the room

Safety Features

- Low profile and front-panel controls for easier access, safer operation
- Dual thermostats guard against thermal runaway
- Hinged acrylic or stainless-steel gable covers have fins that keep hands away from hot vapors
- Covers stay open at 90° or, with quick-release hinge, lift off completely for use with large glassware
- Heating elements will not burn out if bath accidentally runs dry

Construction

- Corrosion-resistant exterior with tough, easy-to-clean acrylic enamel coating
- Temperature-resistant plastic rim insulates, resists leaks, keeps its shape and won't dry out or crack like caulked seals
- Exterior stays cool even after hours of operation
- Deep-drawn, stainless-steel reservoirs and perforated sample trays prevent leaks, guard against rust and contamination
- Rounded reservoir corners and sample trays with finger holes allow for easy removal and make cleaning easier
- All units come with an acrylic cover; stainless-steel cover available as an additional accessory

Contd. on the next page.

Fisher Scientific™ Isotemp™ Digital-Control Water Baths, Contd.

Shallow-form Model 202S

- Perfect for heating samples in microcentrifuge tubes and for other molecular biology procedures

Dual-Chamber Model 215

- Features two chambers with separate controls

Models 220 and 228

- Feature movable control panel that mounts on long or short side of bath

Models 210, 215, 220 and 228

- With drain pump to empty reservoir

ORDERING INFORMATION:
Additional voltages available; contact your Fisher Scientific Customer Service Representative for details.

WARRANTY:
One year

CERTIFICATIONS:
CSA approved.

Specifications	
Temperature Range, Maximum w/Lid	Ambient to 100°C (212°F)
Temperature Accuracy at 37°C	±0.5°C
Temperature Uniformity at 37°C	±0.24°C
Temperature Stability at 37°C	±0.5°C
Temperature Control/Display	PID/Digital†
Electrical Requirements	120V 50/60Hz
Resolution	±0.1°C

†Microprocessor PID Control

Digital-Control Water Baths

Model	Capacity	Reservoir L × W × D	Overall L × W × H	Shipping Weight	Electrical Requirements	Cat. No.	Each
With Acrylic Gable Covers							
202	0.5 gal. (2L)	5.25 × 5.88 × 6" (13 × 14.8 × 15cm)	9.88 × 10.75 × 7.62" (25 × 27 × 19cm)	7.25 lb. (3.3kg)	120V 50/60Hz	**15-462-2Q**	841.50
202S Shallow Form	0.5 gal. (2L)	5.88 × 11.75 × 2.5" (14.8 × 30 × 6cm)	10.5 × 14.12 × 6.25" (27 × 36 × 16cm)	8.88 lb. (4.0kg)	120V 50/60Hz	**15-462-2SQ**	841.50
205	1.38 gal. (5L)	5.88 × 11.75 × 6" (14.8 × 30 × 15cm)	10.5 × 14.12 × 6.25" (27 × 36 × 19cm)	9.88 lb. (4.5kg)	120V 50/60Hz	**15-462-5Q**	927.50
210	2.62 gal. (10L)	12.88 × 11.75 × 6" (33 × 30 × 15cm)	16.38 × 15.38 × 8.88" (42 × 39 × 23cm)	16.5 lb. (7.5kg)	120V 50/60Hz	**15-462-10Q**	1052.00
215 Dual Chamber	1.38/2.62 gal. (5L/10L)	11.75 × 5.88 × 6"/11.75 × 12.88 × 6" (30 × 15 × 14.8cm/30 × 33 × 15cm)	16.38 × 24.38 × 8.88" (42 × 62 × 23cm)	24.5 lb. (11.1kg)	120V 50/60Hz	**15-462-15Q**	2130.00
220	5.25 gal. (20L)	11.75 × 19.75 × 6" (30 × 50 × 15cm)	16.38 × 24.38 × 8.88" (42 × 62 × 23cm)	22.25 lb. (10.1kg)	120V 50/60Hz	**15-462-20Q**	1348.00
228	7.38 gal. (28L)	11.75 × 19.75 × 8" (30 × 50 × 20cm)	16.38 × 24.38 × 10.88" (42 × 62 × 28cm)	26 lb. (11.8kg)	120V 50/60Hz	**15-462-28Q**	1646.00

ON THE WEB...

Looking for More Accessories such as Gable covers

Visit www.fishersci.com and search for Isotemp Baths

Specifications	
Control	Analog Dial
Max. Temperature, with Lid	100°C (212°F)
Max. Temperature, without Lid	85°C (185°F)
Temperature Stability at 37°C	±0.2°C
Temperature Uniformity at 37°C	±0.2°C
Electrical Requirements	120V 50/60Hz

Analog-Control Water Baths

Model	Capacity	Reservoir L × W × D	Overall L × W × H	Temperature Range	Shipping Weight	Cat. No.	Standard Price
With Acrylic Gable Covers							
102	0.5 gal. (2L)	5.25 × 5.88 × 6" (13 × 15 × 15cm)	9.88 × 10.75 × 7.62" (25 × 27 × 19cm)	85°/100°C (185°/212°F)	7.25 lb. (3.3kg)	**15-460-2Q**	710.50
102 Shallow	0.5 gal. (2L)	5.88 × 11.75 × 2.5" (15 × 30 × 6cm)	10.5 × 14.12 × 6.25" (27 × 36 × 16cm)	70°/100°C (158°/212°F)	7.25 lb. (3.3kg)	**15-460-2SQ**	691.00
105	1.38 gal. (5L)	5.88 × 11.75 × 6" (15 × 30 × 15cm)	10.5 × 14.12 × 7.62" (27 × 36 × 19cm)	75°/100°C (167°/212°F)	9.9 lb. (4.5kg)	**15-460-5Q**	785.00
110	2.88 gal. (10L)	12.88 × 11.75 × 6" (33 × 30 × 15cm)	16.88 × 15.38 × 8.88" (42 × 39 × 23cm)	75°/100°C (167°/212°F)	16.5 lb. (7.5kg)	**15-460-10Q**	864.54
115 Dual Chamber	1.38/2.62 gal. (5L/10L)	11.75 × 5.88 × 6"/11.75 × 12.88 × 6" (30 × 15 × 15cm/30 × 33 × 15cm)	16.88 × 24.38 × 8.88" (42 × 62 × 23cm)	75°/100°C (167°/212°F)	24.5 lb. (11.1kg)	**15-460-15Q**	1772.00
120	5.25 gal. (20L)	11.38 × 19.75 × 6" (30 × 50 × 15cm)	16.88 × 24.38 × 8.88" (42 × 62 × 23cm)	75°/100°C (167°/212°F)	22.25 lb. (10.1kg)	**15-460-20Q**	1225.12
128	7.38 gal. (28L)	11.75 × 19.75 × 8" (30 × 50 × 20cm)	16.88 × 24.38 × 10.88" (42 × 62 × 28cm)	75°/100°C (167°/212°F)	26 lb. (11.8kg)	**15-460-28Q**	1352.00

Thermo Scientific™ Precision™ General-Purpose Water Baths

Easy-to-maintain, seamless stainless-steel interior chamber and epoxy powder-coated exterior resist corrosion and chemical damage

Rugged, high-performance baths maintain water temperature from ambient to 95°C or 99.9°C (depending on model) with ±0.2°C uniformity (at 37°C) and ±0.1° control resolution (at 37°C) with stainless-steel gable cover.

- Choice of analog or digital temperature control
- Chamber capacities ranging from 1.5 to 43L
- Front-mounted controls simplify operation
- Overtemperature safety circuitry prevents thermal runaway
- Dual-chamber models have independent controls for operating at different temperatures

Analog Baths

- Easy-to-use analog controls and hydraulic thermostat are ideal for applications in which temperature setpoints seldom change
- Backup high-limit safety thermostat
- Illuminated power switch

Digital Baths

- Allow temperature setpoint with ±0.1°C precision at the push of a button
- Microprocessor control with bright three-digit LED temperature readout
- Automatic overtemperature protection

INCLUDES:
Gable cover: stainless steel for all except Models 181 and 281, which are polypropylene; Diffuser shelf; Spirit-filled thermometer (analog baths only); Rubber duck

CERTIFICATIONS:
UL listed

15-474-69

Specifications	
Temperature Control Resolution	±0.1°C†
Temperature Uniformity	±0.2°C†
Temperature Range	Ambient to 95°C or 99°C
Chamber	Stainless steel
Cabinet	Epoxy powder-coated stainless steel

† With stainless-steel gable cover.

Model	180/280 Shallow Form	181/281	182/282	183/283	184/284	185/285	186/286	188/288 Dual Chamber
Max. Operating Temperature[1]	95.0°C	99.9°C	99.9°C	99.9°C	99.9°C	99.9°C	99.9°C	99.9°C
Capacity[2]	0.4 gal. (1.5L)	0.70 gal. (2.5L)	1.5 gal. (5.5L)	3.2 gal. (12L)	5.2 gal. (19.5L)	4.9 gal. (18L)	11.4 gal. (43L)	3.2 gal. (12L)[3]
Reservoir L × W × D	6 × 11.5 × 2" (15.2 × 29.2 × 5.1cm)	6 × 5 × 6" (15.2 × 12.7 × 16.2cm)	11.5 × 6 × 6" (29.2 × 15.2 × 15.2cm)	11.5 × 12.5 × 6" (29.2 × 31.7 × 15.2cm)	14 × 12 × 8" (35.6 × 30.5 × 20.3cm)	19.5 × 11.5 × 6" (49.5 × 29.2 × 15.2cm)	16 × 28 × 6.5" (40.6 × 71.1 × 16.5cm)	11.5 × 12.5 × 6" (29.2 × 31.7 × 15.2cm)
Weight	12 lb. (5.4kg)	12 lb. (5.4kg)	16 lb. (7.3kg)	20 lb. (9.1kg)	25 lb. (11.3kg)	30 lb. (13.6kg)	56 lb. (25.4kg)	40 lb. (18.1kg)
With Analog Control								
Electrical Requirements	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz
Mfr. No.	2823	2827	2831	2835	2839	2843	2847	2851
Cat. No.	**15-474-22**	**15-474-10**	**15-474-15**	**15-474-25**	**15-474-18**	**15-474-35**	**15-474-20**	**15-474-30**
Each	677.00	690.50	814.00	998.00	1136.00	1022.00	1683.00	1840.00
With Digital Control								
Electrical Requirements	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz	120V 50/60Hz
Mfr. No.	2825	2829	2833	2837	2841	2845	2849	2853
Cat. No.	**15-474-65**	**15-474-67**	**15-474-69**	**15-474-71**	**15-474-73**	**15-474-75**	**15-474-77**	**15-474-79**
Each	824.00	878.00	1021.00	1198.00	1399.00	1340.00	2009.00	1987.00

[1]With gable cover in place. Maximum temperature with chamber uncovered is approximately 65°C.
[2]Chamber capacity measured with bath filled to 1" (2.5cm) from top.
[3]Each chamber.

Bath Accessories

Techne™ Hollow Plastic Balls

Reduce heat loss up to 75%; can also reduce evaporation loss by 87%

- Polypropylene balls are usable at temperatures to 100°C (212°F)
- Reduce fumes, odors and splashing
- Available in a variety of sizes for different size baths

Diameter	Quantity Needed/ Sq. Ft.	Quantity Each Pack	Mfr. No.	Cat. No.	Pack of
0.38" (10mm)	1076	5000	4010100	**14-220-30**	1/582.29
0.75" (20mm)	270	500	4011000	**14-220-31**	1/140.40
0.75" (20mm)	270	2000	4010200	**14-220-33**	1/274.50
1" (25mm)	172	1000	4010300	**14-220-32**	1/548.97
1.5" (38mm)	74	1000	4010400	**14-220-34**	1/657.63

Chillers

Thermo Scientific™ ThermoFlex™ Recirculating Chillers

Reliable, easy-to-use chillers optimized for the most demanding applications

Ease of Use

- An intuitive user interface for ease of operation
- Air and water filters that can be changed while unit is in operation
- Innovative packaging for rapid installation
- Quick start guide enables trouble-free system start-up

Superior Performance

- Improved cooling capacity
- Increased reliability
- Ease of maintenance

Configurable Design

- Wide range of available cooling capacities
- Variety of available options
- Installation flexibility

APPLICATIONS:

- Aerospace
- Analytical
- Biotech
- Chemical
- Industrial
- Medical
- Pharmaceutical
- Research
- University

COMPLIANCE:
NRTL Certified to CSA Standards; CE marked

ThermoFlex Series Recirculating Chillers

Specifications	
Reservoir Volume	1.9 gal. (7.2L)
Temperature Range	5° to 40°C (Ambient +10° to 40°C)
Temperature Stability	±0.1°C
Display	LCD

Model	Cooling Capacity	Electrical Requirements	Pumping Speed	Mfr. No.	Cat. No.	Each
PD1 Pump						
TF9 B A 115/60 P1 IPR	900w (3074 BTU/hr.)	115V 60Hz, 15A circuit	2.1 gal./min. (7.9L/min.) at 60psi	101101010000006	**13-266-130**	4009.56
TF14 B A 115/60 P1 IPR	1400w (4771 BTU/hr.)	115V 60Hz, 20A circuit	2.1 gal./min. (7.9L/min.) at 60psi	111101010000011	**13-266-134**	4457.44
PD2 Pump						
TF9 B A 115/60 P2 IPR	900w (3072 BTU/hr.)	115V 60Hz, 15A circuit	4.1 gal./min. (15.5L/min.) at 60psi	101101110000001	**13-266-131**	4447.34
TF14 B A 115/60 P2 IPR	1400w (4778 BTU/hr.)	115V 60Hz, 20A circuit	4.1 gal./min. (15.5L/min.) at 60psi	111101110000008	**13-266-135**	4896.25

Circulators-Heating

Fisher Scientific™ Isotemp™ Heated Bath Circulators

Reliable, high-wattage heaters that deliver rapid fluid heat up and ensure fluid compatibility for your application

Standard high temperature cutout (HTC) circuitry is user-selectable to ensure application temperatures do not exceed set point parameters

- Temperature range: ambient to 200°C†

INCLUDES:
Includes external circulation plumbing fittings

Isotemp H24 Circulators

Model‡	Ambient Temperature Range†, Stability	Heater Capacity	Pump Type	Pump Capacity	Overall Dimensions (H × W × L)	Work Area Dimensions (W × L × D)	Unit Weight	Cat. No.	Price
Reservoir Volume: 4 to 7L, 115V/60Hz									
4100 H7	10° to 100°C (50° to 212°F), ±0.1°C	1kW	Force	17L/min.; 310mbar	15.6 × 8.4 × 14.2" (39.6 × 21.3 × 36.0cm)	6.0 × 4.4 × 5.9" (15.2 × 11.1 × 14.9cm)	21.4 lb. (9.7kg)	**13-874-171**	1723.14
5150 H7	10° to 150°C (50° to 302°F), ±0.1°C	1kW	Force	17L/min.; 310mbar	15.6 × 8.4 × 14.2" (39.6 × 21.3 × 36.0cm)	6.0 × 4.4 × 5.9" (15.2 × 11.1 × 14.9cm)	21.4 lb. (9.7kg)	**13-874-121**	1940.00
6200 H7	10° to 200°C (50° to 392°F), ±0.05°C	1.2kW	Force and Suction	21L/min.; 805mbar	16.2 × 8.4 × 14.2" (41.1 × 21.3 × 36.0cm)	6.0 × 4.4 × 5.9" (15.2 × 11.1 × 14.9cm)	23.3 lb. (10.56kg)	**13-874-671**	2519.00
Reservoir Volume: 7 to 11L, 115V/60Hz									
4100 H11	10° to 100°C (50° to 212°F), ±0.1°C	1kW	Force	17L/min.; 310mbar	15.6 × 11.8 × 14.2 in. (39.6 × 29.9 × 36.0cm)	9.4 × 4.4 × 5.9" (23.8 × 11.1 × 14.9cm)	25.0 lb. (11.34kg)	**13-874-172**	1830.69
5150 H11	10° to 150°C (50° to 302°F), ±0.1°C	1kW	Force	17L/min.; 310mbar	15.6 × 11.8 × 14.2 in. (39.6 × 29.9 × 36.0cm)	9.4 × 4.4 × 5.9" (23.8 × 11.1 × 14.9cm)	25.0 lb. (11.34kg)	**13-874-124**	2028.17
6200 H11	10° to 200°C (50° to 392°F), ±0.05°C	1.2kW	Force and Suction	21L/min.; 805mbar	16.2 × 11.8 × 14.2" (41.1 × 29.9 × 36.0cm)	9.4 × 4.4 × 5.9" (23.8 × 11.1 × 14.9cm)	26.9 lb. (12.2kg)	**13-874-672**	2630.91
Reservoir Volume: 14 to 24L, 115V/60Hz									
4100 H24	10° to 100°C (50° to 212°F), ±0.1°C	1kW	Force	17L/min.; 310mbar	15.6 × 14.4 × 22.1" (39.6 × 36.5 × 56.1cm)	12.2 × 11.6 × 5.9" (30.9 × 29.4 × 14.9cm)	34.4 lb. (15.6kg)	**13-874-173**	2204.05
5150 H24	10° to 150°C (50° to 302°F), ±0.1°C	1kW	Force	17L/min.; 310mbar	15.6 × 14.4 × 22.1" (39.6 × 36.5 × 56.1cm)	12.2 × 11.6 × 5.9" (30.9 × 29.4 × 14.9cm)	34.4 lb. (15.6kg)	**13-874-123**	2948.30
6200 H24	10° to 200°C (50° to 392°F), ±0.05°C	1.2kW	Force and Suction	21L/min.; 805mbar	15.6 × 14.4 × 22.1" (39.6 × 36.5 × 56.1cm)	12.2 × 11.6 × 5.9" (30.9 × 29.4 × 14.9cm)	36.3 lb. (16.46kg)	**13-874-673**	2999.63

†Without work area cover installed
‡Please refer to catalog for additional information on controller features (4100, 5150, 6200)

Fisher Scientific™ Isotemp™ Open Heated PPO Bath Circulators

Open heated baths are made from very rigid polyphenyleneoxide (PPO) and are thermally resistant up to 100°C, making them an excellent alternative to stainless steel

These economical open-bath circulators use water as the heat transfer liquid. Baths have integrated grips and supports and are fitted with bridge plates for placement of the control head.

- Heating capacity up to 1000w
- Available with 5-, 14- and 21-liter baths
- The most economical choice for a heating bath
- Temperature range: ambient to 100°C

Isotemp Heated PPO Bath Circulators

Specifications	
Ambient Temperature Range, Stability	Ambient 10° to 100°C (50° to 212°F), ±0.1°C
Heater Capacity	1kW
Pump Type	Force
Pump Capacity	17L/min.; 310mbar

Model†	Reservoir Volume	Overall Dimensions (H × W × L)	Work Area Dimensions (W × L × D)	Unit Weight	Voltage	Cat. No.	Each
4100 H5P	3 to 5L (0.7 to 1.3 gal.)	13.7 × 7.5 × 15.3" (34.7 × 19 × 38.8cm)	5.2 × 5.2 × 6.3" (13.2 × 13.2 × 16cm)	11.6 lb. (5.26kg)	115V/60Hz	**13-874-174**	1468.00
4100 H14P	8 to 14L (2.11 to 3.69 gal.)	13.7 × 14.1 × 17.8" (34.7 × 35.8 × 45.2cm)	11.8 × 6.4 × 6.3" (29.9 × 16.2 × 16cm)	14.9 lb. (6.75kg)	115V/60Hz	**13-874-175**	1600.99
4100 H21P	13 to 21L (3.43 to 5.54 gal.)	13.7 × 14.1 × 25.3" (34.7 × 35.8 × 64.2cm)	11.8 × 13.9 × 6.3" (29.9 × 35.3 × 16cm)	16.6 lb. (7.52kg)	115V/60Hz	**13-874-176**	1733.94

Thermo Scientific™ Lindberg/Blue M™ General-Purpose Circulating Water Baths

Advanced microprocessor control

- Microprocessor with RTD probe provides simple, accurate and repeatable temperature control while optimizing control parameters during operation
- Digital temperature display simultaneously reads setpoint and water temperature
- Recessed control module protects against dirt and moisture
- Single-stage centrifugal pump with independent supply/return ports for maximum circulation
- Reversible stainless-steel rack allows for optional reduction of working depth by 2" (5cm)
- Adjustable high-limit control
- Prevents critical process overtemperature conditions at any point over the operating range
- Protects bath and load
- Interrupts heat and flashes visual warning
- Automatically resets when temperature returns to normal
- Fixed overtemperature safety, factory set 105°C, shuts off bath power; push-button manual reset
- Integrated industrial-strength pump for internal circulation maintains precise temperature uniformity throughout the liquid medium
- Rounded corners for better water circulation, improved uniformity and easier cleaning
- Built-in drain with ON/OFF valve
- Moisture-proof blanketed fiberglass insulation surrounds water chamber — improves temperature stability and energy efficiency
- 304 stainless-steel construction resists chemicals, simplifies cleaning
- Long-life heating elements for quick response to controller
- Nonskid rubber feet protect the lab bench
- Attractive front panel bezel for easy cleaning

INCLUDES:
Reversible stainless-steel rack, temperature probe, 10' (3m) power cord with plug, and mounting clip for immersion glass thermometer (thermometer sold separately). Gable covers are not included, but are a recommended accessory (must be ordered separately).

CERTIFICATIONS: UL, cUL

15-453-1D and 15-453-424 with gable cover (available separately)

Specifications	
Control	Microprocessor
Temperature Range	5°C above ambient to 100°C
Temperature Control Resolution	0.1°C
Temperature Uniformity	±0.1°C
Display	Digital
Pump	Centrifugal

Capacity	26.6 gal. (100.7L)
Heatup Time	234 min.
Interior L × W × D	36 × 18 × 9.5" (91 × 46 × 24cm)
Exterior L × W × H	46 × 20 × 14.5" (117 × 51 × 37cm)
Shipping Weight	105 lb. (48kg
Power Consumption	2490w (8188 BTU/hr.)
Electrical Requirements	120V 50/60Hz
Amps	21A
Mfr. No.	WB1140A-1
Cat. No.	**15-453-425**
Each	4486.00

Fisher Scientific™ Isotemp Heated Immersion Circulators

Convenient, simple way to convert open baths to constant temperature baths

Precision, features and performance enables optimization of configurations to meet various application needs.

Each unit features:

- Two pump speeds: 50% and 100%
- Adjustable PID control
- Large, easy-to-read, five-line LCD display
- Three languages: English, German, French
- Over temperature/low level cutouts with audible and visual alarms
- High quality industrial motor for excellent pump performance and long life
- Temperature range: ambient to 200°C

4100 Controller for routine temperature control

- Ambient to 100°C
- 1 kW heater
- Powerful force pump
- Five programmable set points: 20°C, 37°C, 50°C, 70°C and 100°C
- Temperature display in °C, °F or °K with resolution of 0.1 or 0.01
- Available with a clamp or a bridge
- Compatible fluids: DI water up to 3 mOhm; 50/50 EG/Water; 50/50 PG/Water

5150 Controller for greater performance

- Ambient to 150°C
- 1 kW heater
- Powerful force pump
- Five programmable set points: 20°C, 37°C, 50°C, 70°C and +100°C
- Temperature display in °C, °F or °K with resolution of 0.1 or 0.01
- Available with a clamp or a bridge
- Compatible fluids: DI water up to 3 mOhm; 50/50 EG/Water; 50/50 PG/Water; Sil 100; Sil 180; and Sil 300

6200 Controller for automation and remote operation

- Ambient to 200°C
- 1.2 kW heater
- Powerful force/suction pump
- Five programmable set points: +20°C, +37°C, +50°C, +70°C and +100°C
- Temperature display in °C, °F or °K with resolution of 0.1 or 0.01
- Available with a bridge
- RS-232/USB interface option
- Remote temperature control of external systems (with optional probe)
- Compatible fluids: DI water up to 3 mOhm; 50/50 EG/PG; Sil 100; Sil 180; and Sil 300

13-874-438

INCLUDES:
External circulation plumbing fittings

WARRANTY:
Two-year

COMPLIANCE:
Safety Class III, FL-DIN 12876

CERTIFICATIONS:
UL/CSA (compliance pending), CE certified, RoHS/WEEE

Model†	Temperature Range, Stability	Heater Capacity	Pump Type	Pump Capacity	Overall Dimensions (H × W × D)	Unit Weight	Voltage	Cat. No.	Price
4100C	Ambient to +212°F (+100°C), ±0.1°C	1kW	Force	17L/min.; 310mbar	12.6 × 4.4 × 7.5" (32 × 11.1 × 19.0cm)	8.5 lb. (3.8kg)	115V/60Hz	**13-874-432**	1094.00
4100B	Ambient to +212°F (+100°C), ±0.1°C	1kW	Force	17L/min.; 310mbar	12.6 × 4.4 × 7.5" (32 × 11.1 × 19.0cm)	8.5 lb. (3.8kg)	115V/60Hz	**13-874-438**	1139.75
5150C	Ambient to +302°F (+150°C), ±0.1°C	1kW	Force	17L/min.; 310mbar	12.6 × 4.4 × 7.5" (32 × 11.1 × 19.0cm)	8.5 lb. (3.8kg)	115V/60Hz	**13-874-434**	1188.53
5150B	Ambient to +302°F (+150°C), ±0.1°C	1kW	Force	17L/min.; 310mbar	12.6 × 4.4 × 7.5" (32 × 11.1 × 19.0cm)	8.5 lb. (3.8kg)	115V/60Hz	**13-874-440**	1241.81
6200B	Ambient to +392°F (+200°C), ±0.05°C	1kW	Force and Suction	21L/min.; 805mbar	13.4 × 5.7 × 7.5" (34.0 × 14.4 × 19.0cm)	10.4 lb. (4.7kg)	115V/60Hz	**13-874-442**	1734.00

†C = clamp (5mm to 25mm wall thickness)
B = bridge

ON THE WEB...

Looking for More Circulators?

Visit www.fishersci.com and search for Circulators

Thermo Scientific™ Precision™ Digital Circulating Water Baths

High-performance digital baths

- Temperature controller provides ±0.05°C uniformity at 37°C and control resolution of ±0.05°C with stainless-steel gable cover
- Microprocessor control with digital LED display
- Set temperature in 0.1°C increments
- Water flow directed around bath perimeter
- Elevated sample platform for more thorough circulation
- Overtemperature protection capability
- Single switch control for heater and circulator pump
- Stainless-steel construction; exterior finished with baked-on epoxy-polyester

Model 260

- Capacity: 5.1 gal. (19L)

Model 265

- Capacity: 9.1 gal. (34.5L)

Model 270

- Capacity: 23.8 gal. (89L)

15-474-100

15-474-106

APPLICATIONS:

- Bacteriological Examinations
- Coagulation Tests
- Coliform Determinations
- Copper Strip Corrosion Tests
- Crude Oil Studies
- Cytochemistry
- Demulsibility Studies
- Enzyme Studies
- Environmental Studies
- Food Processing QC
- Genetic Studies
- Hormone Studies
- Immunological Research
- Incubation for Microbiological Assays
- Metallurgical Analysis
- Molecular Biology
- Protein Analysis
- Radioactive Isotope Uptake Studies
- Radiochemistry
- Serological Research
- Thawing
- Thawing Blood
- Tissue Culture Research
- Virology Research
- Warming Reagents
- Water Quality Research

INCLUDES:

- Stainless-steel gable cover
- Diffuser shelf
- 3-wire cord and plug
- Duck

COMPLIANCE:
ASTM™ E715 Class IIA standards for uniformity

CERTIFICATIONS:
UL and CE Listed

Specifications	
Temperature Range	Ambient 5°C to 99.9°C†
Temperature Control Resolution	±0.05°C
Temperature Uniformity	±0.5°C
Control	Microprocessor
Display	Digital LED
Chamber	Stainless steel
Cabinet	Expoxy powder-coated stainless steel

† With stainless-steel gable cover.

Model	260	265	270
Capacity	5.1 gal. (19L)	9.1 gal. (34.5L)	23.8 gal. (89L)
Shelf L × W	11 × 14.5" (27.9 × 36.8cm)	11 × 26.5" (27.9 × 67.3cm)	17 × 35" (43.2 × 88.9cm)
Interior L × W × D	12 × 15 × 7.5" (30.5 × 38.1 × 19cm)	12 × 27 × 7.5" (30.5 × 68.6 × 19cm)	18 × 36 × 9.5" (46 × 91 × 24cm)
Overall L × W × H	14 × 24.5 × 9.5" (35.6 × 62.2 × 24.1cm)	14 × 36.5 × 9.5" (35.6 × 92.7 × 24.1cm)	20 × 45 × 12" (51 × 114 × 30cm)
Shipping Dimensions	25 × 34.5 × 15.5" (63.5 × 87.6 × 39.4cm)	27 × 45.5 × 21" (68.6 × 115.5 × 53.3cm)	27 × 46 × 21" (68.6 × 116.8 × 53.3cm)
Shipping Weight	45 lb. (20.4kg)	68 lb. (30.8 kg)	85 lb. (38.5kg)
Output Power	3415 BTU	5294 BTU	5294 BTU
Wattage	1000w	1550w	1550w
Electrical Requirements	120V 50/60Hz, 8.3A	120V 50/60Hz, 12.9A	120V 50/60Hz, 12.9A
Mfr. No.	2864	2866	2868
Cat. No.	**15-474-100**	**15-474-106**	**15-474-105**
Each	2740.00	2965.00	3796.00

Thermo Scientific™ SAHARA Stainless Steel Heated Bath Circulators

Designed for safe operation

Sahara Series Stainless-steel Heating Circulators

Environmentally Friendly Design

- Save up to 80% on energy costs and thousands of kilowatt hours during the life of the system
- All units are RoHS-compliant (lead- and mercury-free) and use recycled packaging

Safe Operation

- All units are UL/CSA compliant, assuring safe operation in the unlikely event of a fault condition

Easy to Use

- All thermostats feature an intuitive user interface with bright display to view critical readings
- Thermostat can be turned and positioned on all four sides on the bath for easy viewing
- Each system comes with a quick-start guide for simple setup and operation
- Lead- and mercury-free
- 115/60 Hz units are UL listed or recognized
- IQ/OQ compliance is optional

APPLICATIONS:

- Viscometers
- Spectrophotometers
- Refractometers
- Metrology

INCLUDES:
Communication cables, bridge with gasket and thumbscrews, fittings, clamps, pump plug for external circulation, 6' power cord

COMPLIANCE: RoHS-compliant (lead- and mercury-free)

CERTIFICATIONS: UL listed, CSA approved, CE marked

Contd. on the next page.

Thermo Scientific SAHARA Stainless Steel Heated Bath Circulators, Contd.

Thermo Scientific™ SAHARA Series S3 Stainless Steel Heated

Specifications	
Maximum bath volume	6L
Work area (L × W × D)	11.2 × 15.4 × 15.0cm (4.4 × 6.1 × 5.9")
Exterior (L × W × H)	42.8 × 23.5 × 40.6cm (16.7 × 9.2 × 16")
Net weight	9.8kg (21.5 lb.)
Compliance	CE/ROHS/WEEE

Controller	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	Ambient +13 to 100°C	115V/60Hz	152-1038	**13-874-826**	1720.27
SC150	Ambient +13 to 150°C	115V/60Hz	153-1038	**13-874-844**	1990.00
AC200	Ambient +13 to 200°C	115V/60Hz	156-1038	**13-874-864**	2600.00

Thermo Scientific™ SAHARA Series S7 Stainless Steel Heated

Specifications	
Maximum bath volume	8L
Work area (L × W × D)	11.2 × 15.4 × 18.5cm (4.4 × 6.1 × 7.3")
Exterior (L × W × H)	42.8 × 23.5 × 45.6cm (16.7 × 9.2 × 18")
Net weight	10.6kg (23.4 lb.)
Compliance	CE/ROHS/WEEE

Controller	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
AC150	Ambient +13 to 150°C	115V/60Hz	155-1078	**13-874-803**	2370.00

Thermo Scientific™ SAHARA S21 Stainless Steel Heated Bath Circulators

Specifications	
Maximum bath volume	19L
Work area (L × W × D)	31.2 × 29.7 × 15.0cm (12.3 × 11.7 × 5.9")
Exterior (L × W × H)	62.8 × 38.1 × 40.9cm (24.7 × 15 × 16.1")
Net weight	14.2kg (31.2 lb.)
Compliance	CE/ROHS/WEEE

Controller	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
AC200	Ambient +13 to 200°C	115V/60Hz	156-1218	**13-874-865**	3102.22

Thermo Scientific™ SAHARA S45 Stainless Steel Heated Bath Circulators

Specifications	
Maximum bath volume	41L
Work area (L × W × D)	31.2 × 29.8 × 30.0cm (12.3 × 11.7 × 11.8")
Exterior (L × W × H)	62.8 × 38.1 × 55.6cm (24.7 × 15 × 21.9")
Net weight	20.3kg (44.7 lb.)
Compliance	CE/ROHS/WEEE

Controller	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	Ambient +13 to 100°C	115V/60Hz	152-1458	**13-874-829**	2990.63
AC150	Ambient +13 to 150°C	115V/60Hz	155-1458	**13-874-857**	3560.05
AC200	Ambient +13 to 200°C	115V/60Hz	156-1458	**13-874-867**	3900.00

Thermo Scientific™ SAHARA S30 Stainless Steel Heated Bath Circulators

Specifications	
Maximum bath volume	26L
Work area (L × W × D)	31.2 × 29.7 × 20.9cm (12.3 × 11.7 × 7.9")
Exterior (L × W × H)	62.8 × 38.1 × 45.6cm (24.7 × 15 × 18")
Net weight	16.5kg (36.2 lb.)
Compliance	CE/ROHS/WEEE

Controller	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
AC200	Ambient +13 to 200°C	115V/60Hz	156-1308	**13-874-866**	3193.61

Thermo Scientific™ SAHARA S49 Stainless Steel Heated Bath Circulators

Specifications	
Maximum bath volume	53L
Work area (L × W × D)	43.0 × 49.8 × 20.0cm (16.9 × 19.6 × 7.9")
Exterior L × W × H	74.6 × 57.9 × 45.6cm (29.4 × 22.8 × 18")
Net weight	24.3kg (53.4 lb.)
Compliance	CE/ROHS/WEEE

Controller	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC150	Ambient +13 to 150°C	115V/60Hz	153-1498	**13-874-848**	3488.44

ON THE WEB...

Visit Fishersci.com to view complete line of SAHARA stainless steel and Acrylic Heated Bath Circulators.

Visit www.fishersci.com and search for Baths

Thermo Scientific™ Immersion Circulators

Economical choice, solid performance

Designed for ease-of-use and energy efficiency with powerful pumping and heating capacities for closed loop applications.

- Self-tuning PID controller for optimized temperature control
- Five programmable set point temperatures
- RTA (Real Temperature Adjustment) for calibration
- Two levels of pump speed adjustment to increase flow or bath agitation
- Three languages (English, German, French)
- Change digital display resolution between 0.1 and 0.01 and between °C, °F, °K
- Acoustic and optical alarm
- Auto-restart feature after power failure

INCLUDES:
8mm and 12mm hose barbs with clamp (-0018 only), pump plug for external circulation, 6 ft. power cord.

COMPLIANCE:
CE, CSA, UL, RoHS

SC100 Immersion Circulator

Thermo Scientific™ SC100 Immersion Circulators

- Max. temperature: 100°C

Specifications	
Max. Temperature	100°C
Temperature Stability	0.02°C
Heater Capacity (230V/115V)	2kW/1.2kW
Max. Flowrate	17L/min.
Max. Pressure	300mbar/4.35psi
Exterior (L × W × H)	19.9 × 13.8 × 33.6cm (7.8 × 5.4 × 13.2")
Safety Class	1/NFL
Net weight	3.3kg (7.3 lb.)

Model	Electrical Requirements	Mfr. No.	Cat. No.	Price
SC100 w/clamp	115V/60Hz	152-0018	**13-874-825**	1187.00

Thermo Scientific™ SC150 Immersion Circulators

- Max. temperature: 150°C
- Low-liquid level alarm for Safety Class III
- Automatic controller shutdown at detection of excessive high temperature, low liquid level or motor overload
- USB communication port and options for RS-232, RS-485, Ethernet/LAN, Analog I/O

Specifications	
Max. Temperature	150°C
Temperature Stability	0.02°C
Heater Capacity (230V/115V)	2kW/1.2kW
Max. Flowrate	17L/min.
Max. Pressure	300mbar/4.35psi
Exterior (L × W × H)	19.9 × 13.8 × 33.6cm (7.8 × 5.4 × 13.2")
Safety Class	3/FL
Net weight	3.3kg (7.3 lb.)

Model	Electrical Requirements	Mfr. No.	Cat. No.	Price
SC150 w/clamp	115V/60Hz	153-0018	**13-874-843**	1492.30

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location. Visit **www.fishersci.com/movingon** to learn more.

Circulators-Immersion

Thermo Scientific™ Haake™ EK Immersion Coolers

A simple solution for direct cooling of small samples

Models EK20 and EK30

- Air-cooled cooling circuit
- Suitable for individual cooling applications like cooling smaller volumes, removing reaction heat or replacing tap water cooling
- EK20 is designed for baths with a 15cm depth; end temperature of -25°C can be reached in a 5L Dewar vessel
- EK30 is designed for baths with a 20cm depth; end temperature of -30°C can be reached in a 5L Dewar vessel

Specifications	
Hose Length	150cm (59")

Models EK45

- Multi-purpose coolers with own controller for temperature accuracy of approximately 1° to 2°C
- Suitable for individual cooling applications like cooling smaller volumes or removing reaction heat
- Air-cooled cooling circuit
- Digital temperature display
- Reaches temperatures down to -45°C in a 5L Dewar vessel
- Comes with flexible probe

13-875-707

Model	Temperature Range	Cooling Capacity	Exterior L × W × H	Power Consumption	Electrical Requirements	Net Weight	Mfr. No.	Cat. No.	Each
EK20	-25° to +150°C	300w at +20°C; 150w at -10°C	18.1 × 9 × 15" (46 × 23 × 38cm)	160w	115V 60Hz	48.5 lb. (22kg)	322-1202	**13-875-706**	2910.00
EK30	-30° to +150°C	400w at +20°C; 250w at -10°C	18.1 × 9 × 15" (46 × 23 × 38cm)	270w	115V 60Hz	50.7 lb. (23kg)	323-1302	**13-875-707**	3717.08
EK45FP	-45° to +40°C	400w at +20°C; 250w at -10°C	18.1 × 9 × 15" (46 × 23 × 38cm)	300w	115V 60Hz	66.1 lb. (30kg)	328-1462	**13-875-820**	4590.00

Fisher Scientific™ Isotemp™ Cooling/Heating Recirculating Circulators

Designed with a focus on high performance, small footprint and quiet operation.

Easy-to-use laboratory chiller with a 2.8L reservoir, up to 500w of cooling power and temperature ramp from atmosphere to -10°C in less than 16 minutes. Once installed all user interface is done through the front panel. An optional trolley accessory enables easy and convenient transport of the system around the laboratory. An intuitive user interface allows the user to choose between five temperature set-points. Remote temperature control and communication are available on selected models for remote operation, monitoring and data logging.

- Full range heating and cooling from -10° to +80°C
- No external reservoir for fast ramp time
- Small footprint
- Quiet operation
- Multiple options available for increased flow and pressure ensure that the user has the perfect fit for their application. Choose between 250 or 500 watts of cooling, a force or force/suction pump and USB communication.

Ideal for diverse applications within the following markets:

- Chemical reaction control
- Separations
- Life science instrumentation
- Mass spectroscopy
- Molecular spectroscopy
- Atomic spectroscopy
- Surface science
- Materials characterization
- Laboratory automation
- General laboratory instrumentation
- Temperature Range: Ambient to +80°C

13-874-643

Specifications	
Ambient Temperature Range, Stability	-10° to +80°C (14° to 176°F), ±0.1°C
Heater Capacity	1000w
Internal Tank Volume	2.8L (0.73 gal.)
Overall Dimensions (H × W × D)	25 × 9 × 19" (63.5 × 22.8 × 48.2cm)
Unit Weight	66 lb. (29.93kg)

Model	Cooling Capacity at +20°C	Pump Type	Pump Capacity	USB Port	Voltage	Cat. No.	Price
250LCU	250w	Force	17L/min.; 300mbar	Yes	115V/60Hz	**13-874-643**	2571.19
250LCSU	250w	Force/Suction	21L/min.; 805mbar	Yes	115V/60Hz	**13-874-644**	3029.21
500LCU	500w	Force	17L/min.; 300mbar	Yes	115V/60Hz	**13-874-647**	3202.67
500LCSU	500w	Force/Suction	21L/min.; 805mbar	Yes	115V/60Hz	**13-874-648**	3510.00

Fisher Scientific™ Isotemp™ Refrigerated/Heated Bath Circulators

Multiple bath sizes allow more choices to suit various application needs

Low-profile model enables easy bath access when lab counter height presents a challenge. Seamless stainless-steel tanks guarantee durability and easy cleaning. Robust refrigeration system ensures that samples and applications can be cooled quickly. Fine-tuned refrigeration metering allows for excellent temperature stability at all times.

- Cooling capacities up to 800w
- All bath drains are located on the front of the unit with an integrated valve
- Temperature Range: -35°C to +200°C

INCLUDES:

- External circulation plumbing with 8 and 12mm fittings
- Supply and return clamps
- Work area covers

13-874-181

NOTES:
Green Tip: For less demanding applications, power consumption can be lowered by utilizing the energy savings mode

Model	Temperature (Range), Stability	Heater Capacity	Cooling Capacity at +20°C	Pump Type	Pump Capacity	Overall Dimensions (H × W × L)	Work Area Dimensions (W × L × D)	Unit Weight	Cat. No.	Price
Reservoir Volume: 3 to 6L (0.79 to 1.58 gal.), 115V/60Hz										
6200 R20	-20° to +100°C (-4° to +212°F), ±0.025°C	1.2kW	250w	Force and Suction	21L/min.; 805mbar	25.2 × 8.0 × 16.4"	5.3 × 4.8 × 5.9"	60 lb.	**13-874-674**	3350.00
4100 R20	-20° to +100°C (-4° to +212°F)	1kW	250w	Force	17L/min.; 310mbar	24.4 × 8.0 × 16.4"	5.3 × 4.8 × 5.9"	58 lb.	**13-874-180**	2467.82
4100 R20F	-20° to +100°C (-4° to +212°F), ±0.05°C	1kW	250w	Force	17L/min.; 310mbar	16.8 × 18.4 × 16.4"	5.3 × 4.8 × 5.9"	64 lb.	**13-874-181**	2753.73
6200 R20F	-20° to +100°C (-4° to +212°F), ±0.025°C	1.2kW	250w	Force and Suction	21L/min.; 805mbar	17.5 × 18.4 × 16.4"	5.3 × 4.8 × 5.9"	66 lb.	**13-874-675**	3601.38
Reservoir Volume: 6.8 to 8.6L (1.79 to 2.27 gal.), 115V/60Hz										
4100 R28	-28° to +100°C (-18.4° to +212°F), ±0.05°C	1kW	500w	Force	17L/min.; 310mbar	25.6 × 10.2 × 19.3"	6.8 × 7.2 × 5.9"	79 lb.	**13-874-182**	3000.00
5150 R28	-28° to +150°C (-18.4° to +302°F), ±0.05°C	1kW	500w	Force	17L/min.; 310mbar	25.6 × 10.2 × 19.3"	6.8 × 7.2 × 5.9"	78 lb.	**13-874-126**	3190.00
6200 R28	-28° to +200°C (-18.4° to +392°F), ±0.025°C	1.2kW	500w	Force and Suction	21L/min.; 750mbar	25.8 × 10.2 × 19.3"	6.8 × 7.2 × 5.9"	80 lb.	**13-874-676**	3916.89
4100 R35	-35° to +100°C (-31° to +212°F), ±0.05°C	1kW	800w	Force	17L/min.; 310mbar	27.1 × 14.6 × 20.8"	6.8 × 7.2 × 5.9"	121 lb.	**13-874-183**	3530.91
5150 R35	-35° to +150°C (-31° to +302°F), ±0.05°C	1kW	800w	Force	17L/min.; 310mbar	27.1 × 14.6 × 20.8"	6.8 × 7.2 × 5.9"	121 lb.	**13-874-127**	3768.14
6200 R35	-35° to +200°C (-31° to +392°F), ±0.025°C	1.2kW	800w	Force and Suction	21L/min.; 750mbar	27.1 × 14.6 × 20.8"	6.8 × 7.2 × 5.9"	123 lb.	**13-874-677**	4325.42

ACCESSORIES

Fisher Scientific™ Isotemp™ Bath Circulator Fluids

For use with Isotemp Baths and Chillers

Description	Temperature Range	Container Size	Cat. No.	Each
Sil 180 Silicone oil bath liquid	-40° to +200°C	5L	**13-265-204**	245.00
Sil 180 Silicone oil bath liquid	-40° to +200°C	10L	**13-265-207**	490.00
Sil 300 Silicone oil bath liquid	80° to 300°C	10L	**13-265-206**	1335.20

Circulators-Refrigerating

Thermo Scientific™ ARCTIC Refrigerated Circulators with the STANDARD or ADVANCED Controller

Refrigerated baths are used primarily for controlling the temperature of samples placed within them, so the work area dimensions will be important specifications to evaluate. These units can also circulate for a limited set of refrigerated applications.

- Robust stainless-steel baths
- Thermostat can be indexed 90° on all sides of the bath for easy viewing
- External circulation set included for plumbing connection M16 × 1, 0.25 NPT male, 0.375" O.D.
- Three-side ventilation concept: up to two sides can be blocked with full refrigeration performance and no degradation of equipment
- Draining port at the front
- Integrated handles
- CFC-free refrigerant

APPLICATIONS:

- Calibration
- Bioreactors
- Rotary Evaporators
- Condensers
- Sample/Material Testing
- Sample/Material Preparation

INCLUDES: Control cables, bridge with gasket and thumbscrews, fittings, clamps, pump plug for external circulation and 6' power cord. Work area cover must be purchased separately (Cat. No. 160041):

13-874-895

Thermo Scientific ARCTIC A5B Refrigerated Circulators

Specifications	
Temperature Range	-5° to +100°C
Cooling capacity at 20°C 230V/115V	200W
Maximum bath volume	12 to 20L (0.41 to 0.72 cu. ft.)
Work area (L × W × D)	19 × 29.7 × 20cm (7.5 × 11.7 × 7.9")
External Dimensions (L × W × H)	73.8 × 42.9 × 47.1cm (29 × 16.9 × 18.5")
Net weight	40kg (88.9 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A10 Refrigerated Circulators

Self-tuning Fuzzy PI controller for optimized temperature control

Specifications	
Temperature Range	-10° to +100°C
Cooling capacity at 20°C 230V/115V	240w
Maximum bath volume	6L (1.58 gal.)
Work area (L × W × D)	12.4 × 13.7 × 15cm (4.9 × 5.4 × 5.9")
External Dimensions (L × W × H)	41.4 × 22.0 × 63.2cm (16.3 × 8.7 × 24.9")
Net weight	27.5kg (60.6 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A10B Refrigerated Circulators

Specifications	
Temperature Range	-10° to +100°C
Cooling capacity at 20°C 230V/115V	250w
Maximum bath volume	17 to 30L (0.6 to 1.0 cu. ft.)
Work area (L × W × D)	36.5 × 29.7 × 20cm (13.4 × 11.7 × 7.9")
External Dimensions (L × W × H)	91.3 × 42.9 × 47.1cm (35.9 × 16.9 × 18.5")
Net weight	44.5kg (97.9 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A24B Refrigerated Circulators

Specifications	
Temperature Range	-10° to +100°C
Cooling capacity at 20°C 230V/115V	250w
Maximum bath volume	17 to 30L (0.6 to 1.0 cu. ft.)
Work area (L × W × D)	36.5 × 29.7 × 20cm (13.4 × 11.7 × 7.9")
External Dimensions (L × W × H)	91.3 × 42.9 × 47.1cm (35.9 × 16.9 × 18.5")
Net weight	44.5kg (97.9 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A25 Refrigerated Circulators

Self-tuning Fuzzy PI controller for optimized temperature control

Specifications	
Temperature Range	-25° to +100°C
Cooling capacity at 20°C 230V/115V	500w
Maximum bath volume	12L (3.17 gal.)
Work area (L × W × D)	18.4 × 17.3 × 20.4cm (7.2 × 6.8 × 8")
External Dimensions (L × W × H)	48.3 × 27.3 × 71.1cm (19 × 10.7 × 28")
Net weight	36.1kg (79.5 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A25B Refrigerated Circulators

Specifications	
Temperature Range	-25° to +100°C
Cooling capacity at 20°C 230V/115V	500w
Maximum bath volume	13 to 21L (0.46 to 0.73 cu. ft.)
Work area (L × W × D)	24.4 × 22.4 × 23.3cm (9.6 × 8.8 × 9.2")
External Dimensions (L × W × H)	54.1 × 32.4 × 74.0cm (21.3 × 12.8 × 29.1")
Net weight	42.3kg (93.1 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A28 Refrigerated Circulators

Self-tuning Fuzzy PI controller for optimized temperature control

Specifications	
Temperature Range	-28° to +100°C
Cooling capacity at 20°C 230V/115V	320w
Maximum bath volume	10L (2.64 gal.)
Work area (L × W × D)	12.9 × 17.3 × 20.4cm (5.1 × 6.8 × 8")
External Dimensions (L × W × H)	48.3 × 27.3 × 71.1cm (19 × 10.7 × 28")
Net weight	36kg (79.1 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A28F Refrigerated Circulators

Specifications	
Temperature Range	-28° to +100°C
Cooling capacity at 20°C 230V/115V	320w
Maximum bath volume	10L (2.64 gal.)
Work area (L × W × D)	12.9 × 17.3 × 20.4cm (5.1 × 6.8 × 8")
External Dimensions (L × W × H)	42.6 × 51.4 × 52cm (16.8 × 20.2 × 20.5")
Net weight	35.6kg (78.3 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A40 Refrigerated Circulators

Specifications	
Temperature Range	-28° to +150°C
Cooling capacity at 20°C 230V/115V	800w
Maximum bath volume	12L (3.17 gal.)
Work area (L × W × D)	18.4 × 17.3 × 20.4cm (7.2 × 6.8 × 8")
External Dimensions (L × W × H)	51.9 × 38.5 × 74.9cm (20.4 × 15.2 × 29.5")
Net weight	55.2kg (121.5 lb.)
Compliance	CE/ROHS/WEEE

Thermo Scientific ARCTIC A5B Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-4058	**13-874-914**	3940.00
SC150	17L/min	300/4.35	0.02°C	115V/60Hz	153-4058	**13-874-917**	4312.75

Thermo Scientific ARCTIC A10 Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	1.58 gal. (6L)	300/4.35	0.02°C	115V/60Hz	152-5108	**13-874-885**	3193.56
SC150	1.58 gal. (6L)	300/4.35	0.02°C	115V/60Hz	153-5108	**13-874-886**	3550.06
AC150	1.58 gal. (6L)	475/6.89	0.01°C	115V/60Hz	155-5108	**13-874-887**	3814.92
AC200	1.58 gal. (6L)	475/6.89	0.01°C	115V/60Hz	156-5108	**13-874-888**	4149.35

Thermo Scientific ARCTIC A10B Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-4248	**13-874-780**	4729.73

Thermo Scientific ARCTIC A24B Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-4108	**13-874-915**	4129.48

Thermo Scientific ARCTIC A25 Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-5258	**13-874-895**	3910.00
SC150	17L/min	300/4.35	0.02°C	115V/60Hz	153-5258	**13-874-896**	4211.19
SC150L	17L/min	300/4.35	0.02°C	115V/60Hz	154-5258	**13-874-897**	4506.10
AC150	20L/min.	475/6.89	0.01°C	115V/60Hz	155-5258	**13-874-898**	4465.00
AC200	20L/min.	475/6.89	0.01°C	115V/60Hz	156-5258	**13-874-899**	4801.45

Thermo Scientific ARCTIC A25B Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-4258	**13-874-910**	4281.81
AC150	20L/min	475/6.89	0.01°C	115V/60Hz	155-4258	**13-874-912**	4688.89
AC200	20L/min	475/6.89	0.01°C	115V/60Hz	156-4258	**13-874-913**	5180.00

Thermo Scientific ARCTIC A28 Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-5288	**13-874-889**	3875.58

Thermo Scientific ARCTIC A28F Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
SC100	17L/min	300/4.35	0.02°C	115V/60Hz	152-4288	**13-874-916**	3936.27

Thermo Scientific ARCTIC A40 Refrigerated Circulators

Thermostat	Max. Flowrate	Max. Pressure (mbar/psi)	Temperature Stability	Electrical Requirements	Mfr. No.	Cat. No.	Each
AC150	20L/min.	475/6.89	0.01°C	115V/60Hz	155-5408	**13-874-902**	5522.19
AC200	20L/min.	475/6.89	0.01°C	115V/60Hz	156-5408	**13-874-903**	6000.13
PC200	24L/min.	560/8.12	0.01°C	115V/60Hz	157-5408	**13-874-948**	6683.09

LOOKING FOR MORE...?

To see a complete line of ARCTIC Circulators, **visit www.fishersci.com**

LOOKING FOR DRY BATHS?

See Dry Baths in the Incubators Section.

Shaking

Thermo Scientific™ Precision™ Dubnoff Reciprocal Shaking Baths

- Equipped with one large and two small gassing hoods
- Microprocessor temperature and shaker control with digital LED display
- Adjustable shaking speed from 30 to 200 (OPM) oscillations/min.
- Push-button convenience for entry of temperature and shaking speed
- Overtemperature protection capability
- Automatic motor shutdown capability
- One-piece, easy-to-remove tray for easy use and maintenance

15-453-200

APPLICATIONS:

- Coagulation tests
- Copper strip erosion tests
- Cytochemistry
- Dialysis
- Enzyme studies
- Environmental studies
- Genetic studies
- Hormone studies
- Immunological research
- Incubation for microcentrifugation tubes
- Metallurgical analysis
- Molecular biology
- Radioactive isotope uptake studies
- Serological research
- Thawing
- Thawing blood
- Tissue culture research
- Virology research
- Water quality research

ORDERING INFORMATION:
Optional $O_2/N_2/CO_2$ flowmeter available.

INCLUDES:

- One large and two small gassing hoods
- Stainless-steel gable cover
- Duck

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 8.2A	2876	**15-453-200**	4974.00

COMPLIANCE:
ASTM™ Method E 715 Class IIA standards

CERTIFICATIONS:
UL listed.

Specifications	
Capacity†	14.5L (3.9 gal.)
Temperature Range	Ambient to 99.9°C
Temperature Control Resolution‡	±0.05°C
Temperature Uniformity‡	±0.05°C at 37°C
Control	Microprocessor
Shaking Motion	Reciprocating
Oscillations/Min.	30 to 200
Stroke Length	1.3 to 3.8cm (0.5 to 1.5")
Interior L x W x D	30.5 × 38.1 × 19cm (12 × 15 × 7.5")
Removable Tray (L x W x H)	29.2 × 27.9 × 16.5cm (11.5 × 11 × 6.5")
Exterior (L x W x H)	35.6 × 62.2 × 24.1cm (14 × 24.5 × 9.5")
BTU Output	3415
Power Consumption	1000w
Net Weight	24.9kg (55 lb.)

† Filled 80 mm (3.5") from top of chamber.
‡ With gable cover.

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Thermo Scientific™ Precision™ Reciprocating Shaker Baths

Accurate temperature control and quiet reciprocal shaking action

15-455-5

15-455

- Microprocessor control with digital LED display and shaker control
- Set temperature (in increments of 0.1°C) and oscillation speed via control-panel touchpad for entry of temperature and shaking speed
- Shaking frequency: 30 to 200 oscillations/min.
- Stroke length adjustable at 0.5, 1.0 or 1.5" (13, 25 or 38mm)
- Microprocessor-controlled proportional integral temperature control and solid-state sensing probe provide excellent temperature sensitivity
- Overtemperature protection capability
- Automatic motor shutdown capability
- With adjustable high-limit thermostat and indicator light
- Rugged stainless-steel interior with easy to clean epoxy powder-coated exterior

INCLUDES:
Stainless-steel chamber and duck

COMPLIANCE:
Meet ASTM™ Method E 715 Class IIA standards

CERTIFICATIONS: UL listed

Specifications	
Temperature Range	Ambient to 99.9°C‡
Temperature Control Resolution	±0.05°C
Display	Digital LED
Shaking Agitation Rate	30 to 200 oscillations/min.
Shaking Motion	Reciprocating
Stroke Length	1.3 to 3.8cm (0.5 to 1.5")
Chamber	Stainless steel
Cabinet	Epoxy-polyester-coated, stainless-steel

‡ With cover.

Capacity†	3.9 gal. (14.5L)	7.1 gal. (26.5L)	
Temperature Uniformity	±0.05°C at 37°C	±0.10°C at 37°C	
Interior (L × W × D)	12 × 15 × 7.5" (30 × 38 × 19cm)	12 × 27 × 7.5" (30 × 69 × 19cm)	
Exterior (L × W × H)	14 × 24.5 × 9.5" (36 × 62 × 24cm)	14 × 36.5 × 9.5" (36 × 93 × 24cm)	
Tray (L × W × H)	11.5 × 12 × 6.5" (29.2 × 30.5 × 16.5cm)	11.5 × 24 × 6.5" (29.2 × 61 × 16.5cm)	
Output Power	3415 BTU	5294 BTU	
Shipping Weight	48 lb. (22.2kg)	62 lb. (27.2kg)	
Electrical Requirements	120V 50/60Hz, 1000W, 8.8A	120V 50/60Hz, 1550W, 12.9A	230V 50/60Hz, 1550W, 6.5A
Mfr. No.	2870	2872	2873
Cat. No.	**15-455**	**15-455-5**	**22-391-292**
Each	4080.00	3999.00	3999.00

† Filled to 3.5" (89mm) from top of bath.

Thermo Scientific™ Precision™ Shallow-Form Reciprocal Shaking Baths

Gentle, uniform reciprocal shaking motion at constant temperature

15-453-205

- Microprocessor temperature and shaker control with digital LED display
- Adjustable shaking speed from 30 to 200 oscillations per minute
- Push-button convenience for entry of temperature and shaking speed
- Overtemperature protection capability
- Automatic motor shutdown capability
- One-piece, easy-to-remove tray for easy use and maintenance
- Corrosion-resistant, stainless-steel interior and exterior

APPLICATIONS:

- Coagulation tests
- Copper strip erosion tests
- Cytochemistry
- Dialysis
- Enzyme studies
- Environmental studies
- Genetic studies
- Hormone studies
- Immunological research
- Incubation for microcentrifugation tubes
- Metallurgical analysis
- Molecular biology
- Radioactive isotope uptake studies
- Serological research
- Thawing
- Thawing blood
- Tissue culture research
- Virology research
- Water quality research

ORDERING INFORMATION:
Optional accessories include flowmeter and gassing hoods.

INCLUDES:

- Stainless-steel gable cover
- 230V model includes European-style 50Hz power cord; standard 220V 60Hz power cord (3176836) available separately
- Duck

COMPLIANCE: ASTM™ Method E 715 Class IIA standards

Specifications	
Temperature Range	Ambient to 99.9°C
Temperature Control Resolution‡	±0.05°C
Temperature Uniformity‡	±0.05°C at 37°C
Capacity†	14.5L (3.9 gal.)
Control	Microprocessor
Shaking Motion	Reciprocating
Oscillations/Min.	30 to 200
Stroke Length	1.3 to 3.8cm (0.5 to 1.5")
Interior L × W × D	30.5 × 38.1 × 19cm (12 × 15 × 7.5")
Removable Tray L × W × H	29.2 × 27.9 × 8.9cm (11.5 × 11 × 3.5")
Exterior L × W × H	35.6 × 62.2 × 24.1cm (14 × 24.5 × 9.5")
Net Weight	24.9kg (55 lb.)

† Filled 3.5" (80mm) from top of chamber.
‡ With gable cover.

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 8.3A	2874	**15-453-205**	3860.00
230V 50/60Hz, 4.3A	2875	**15-453-201B**	3816.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

New Brunswick Scientific Model C76 Water Bath Shaker

Built to run continuously — all day, every day

- Designed for continuous-duty orbital shaking
- Broad 50 to 300rpm speed range permits gentle as well as vigorous agitation and aeration
- Features push-button setpoints, self-diagnostic status lights and alarms that warn of any deviation from control tolerances
- LED digital display shows temperature in 0.1°C increments and speed in 1rpm increments
- Visible warning signal indicates when temperature deviates more than 1°C and speed more than 5rpm from setpoints
- Front and rear snap-in baffles minimize splashing
- Bath accommodates flasks, tubes and dishes for staining, destaining and hybridization

14-278-180 Water Bath Shaker with optional gable cover and accessory platform

ORDERING INFORMATION:
Gable cover not included.

Workload Capacities‡	
Flask Size	***Capacity***
50mL	31
125mL	22
250/300mL	13
500mL	8
1L	6
2L	2
Test Tube Diameter	***Capacity***
13mm	60
16mm	36
20mm	29
25mm	18

‡ For flasks, with accessory platform. For test tubes, with accessory test-tube rack.

Model	C76
Shaking Motion	Orbital, 1/2" dia. (1.3cm)
Agitation Rate	50 to 300rpm (±2rpm)
Rate Indication	Digital LED, in 1rpm increments
Drive Motor	Variable speed AC
Timer	0.1 to 99.9 hr.
Temperature Range	7°C above ambient (or coolant temperatures using optional cooling coil) to 80°C†
Temperature Accuracy	±0.25°C
Temperature Indication	Digital LED, in 1rpm increments
Overall L × W × H	27 × 21.5 × 18.5" (68 × 54 × 47cm)
Bath L × W × D	20.5 × 13.5 × 8.25" (51 × 34 × 21cm)
Platform L × W	16.5 × 12" (42 × 31cm)
Net Weight	115 lb. (52kg)
Electrical Requirements	115V 50/60Hz
Mfr. No.	M1248 0002
Cat. No.	**14-278-180**
Each	6581.40

†Stainless-steel gable cover required for temperatures above 60°C. Order separately (Cat. No. 14-284-36).

IBI Scientific Belly Bath

Use as a shaking water bath, constant temperature bath or shaker

Portable, versatile workhorse comprised of a lightweight, quick-heating water bath and The Belly Dancer™ Shaker

- Bath can be removed from shaker and used separately
- Microprocessor-controlled PID system
- Displays setpoint and actual water temperature

15-453-213

Shaker Features

- Gentle undulating motion
- Speed adjustable from 0 to 100rpm
- Orbital action with 1" (2.5cm) throw
- Platform pitch adjustable from flat to 8°
- 12 × 12" acrylic platform
- 5 lb. (2.25kg) load capacity
- Measures 15L × 15W × 9"H without bath on top; 15L × 15W × 17"H with bath lid

Water Bath Features

- Temperature range of 30° to 75°C
- Temperature heat rate: approx. 3°C/min.
- Stability: ±0.2°C at setpoint
- PID microprocessor control maintains water temperature within ±0.1°C between 35° and 72°C
- Easily mobile: weighs just 7.5 lb. with lid (bath portion)
- Exterior measures 12.25L × 12.25W × 4"H (31 × 31 × 10.2cm)
- Stainless-steel chamber measures 10.38L × 10.38W × 3.25"D (26.4 × 26.4 × 8.3cm)

APPLICATIONS:
Shaker and Water Bath together are perfect for Northern/Southern filter blot hybridizations, filter washes, in-situ washes and hybridizations, electrophoretic gel manipulation, acceleration of protein gel staining, hot staining protocols and recombinate DNA technology.

Constant Temperature Bath used alone is ideal for protocols not requiring agitation such as heat inactivation of serums, restriction enzyme digests and protein assays.

Shaker is useful alone for non-temperature-sensitive stainings, washings and probes involved in gel and blotting techniques.

INCLUDES:
Shaker/Bath combination comes with Belly Dancer Shaker modified to include temperature control plus IBI Scientific Hybridization Water Bath.

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Shaker/Water Bath	115V 50/60Hz, 6.26A	BWBAA115S	**15-453-213**	3925.06

Specialty

Boekel™ Microcooler II Benchtop Refrigerated Bath

Convenient alternative to refrigerated water baths

Ideal for sample storage or incubation at temperatures from ambient to 4°C. "Press to set" temperature selection makes it simple to maintain difficult subambient temperatures in applications such as ligation reactions or oocytes storage.

05-450-5

- LCD makes temperature monitoring easy
- Microprocessor controller ensures convenient and accurate temperature setting
- Peltier thermoelectric cooling device provides years of reliable service
- Seamless aluminum well and supplied rack accommodate 24 microcentrifuge tubes (1.5mL size)

ORDERING INFORMATION:
Dimensions, 11.75L × 9,75W × 7.25"H (29.8 × 24.8 × 18.4cm).
Weight, 10 lb. (4.5kg) For 115V 60Hz, 0.8A, 100w.

INCLUDES:
Smoked acrylic plastic lid

Mfr. No.	Cat. No.	Each
260010	**05-450-5**	2110.00

Lab Armor™ Bead Bath

For warming, thawing, incubating, chilling maintaining constant temperature

Vessels can be used at any angle with a bead bath and it is not limited to water-tight containers.

- Type B plug
- Achieves new set temperature quickly without long warm up delays
- Helps in avoiding floating accidents holding things in place without accessories
- Eliminate the need for harmful biocides for lab bath maintenance
- Formed from solid recyclable metal
- Uses 4x less energy and 2x less energy when set at 65°C and 37°C respectively
- Ambient temperature: 5°C to 80°C
- Electrical requirement: 120V, 50/60Hz, 500W, 5.0A
- Monthly spritz of 70% ethanol is sufficient for disinfection
- Overtemperature protection
- With microprocessor control
- Stainless body and lid
- Chill bucket bag kit, bead bags and bead blocks available separately

10-876-008

Description	Volume	Weight	Mfr. No.	Cat. No.	Price
6L Bead bath with 5L beads	6L	44 lb.	74309-706	**10-876-004**	1434.75
6L Bead bath	6L	21 lb.	74300-706	**10-876-005**	999.00
14L; 12L bead fill line; Beads included	14L	84 lb.	74309-714	**10-876-006**	2008.10
14L	14L	30 lb.	74300-714	**10-876-007**	1299.00
20L; 15L bead fill line; Beads included	20L	98 lb.	74309-720	**10-876-008**	2427.73
20L	20L	38 lb.	74300-720	**10-876-009**	1799.00

Boekel™ Unheated Shallow Concentric Ring Bath

Ideal for gentle flask, bottle and test tube heating

- Minimizes water loss through evaporation
- Stainless steel with flat bottom, reinforced edge, steam escape outlet, welded handles
- Seven concentric rings

ORDERING INFORMATION:
8 dia. × 2.75"D (20 × 7cm).

Mfr. No.	Cat. No.	Each
1445 8	**15-518B**	439.50

15-518B

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Beakers

Reusable - Glass

Fisherbrand® Reusable Glass Low-Form Griffin Beakers

Slightly flared spout for steady, accurate pouring

- Made of KG-33 borosilicate glass
- Thick, heavy construction with beaded top
- Uniform wall thickness
- Durable, matte-finish marking area for use with an ordinary pencil
- Easy-to-read white graduated double scale on all sizes from 50 to 1000mL

FB-100-600

COMPLIANCE:
Designed from ASTM™ Specification E 960, Type I requirements

Capacity	Graduation Range	Graduation Interval	Cat. No.	Pack of	Case of
50mL	10 to 40mL	10mL	**FB-100-50**	12/58.80	4 Pk./184.30
100mL	20 to 80mL	10mL	**FB-100-100**	12/61.80	4 Pk./194.60
150mL	20 to 140mL	20mL	**FB-100-150**	12/59.10	4 Pk./186.20
250mL	25 to 200mL	25mL	**FB-100-250**	12/59.20	4 Pk./186.30
400mL	50 to 325mL	25mL	**FB-100-400**	12/69.60	4 Pk./219.00
600mL	50 to 500mL	50mL	**FB-100-600**	6/45.20	6 Pk./209.50
1000mL	100 to 1000mL	50mL	**FB-100-1000**	6/83.30	4 Pk./262.50

Fisherbrand® Reusable Glass Berzelius Beakers

Convenient tall-form design

- Slighty flared top, reinforcing bead and pouring spout
- Durable matte finish marking area
- White scales to approximate volumes
- Made with Borosilicate glass

FB-102-100

COMPLIANCE:
Designed from ASTM™ Specification E960, Type III requirements

Capacity	Graduation Range	Graduation Interval	Cat. No.	Pack of	Case of
100mL	20 to 80mL	10mL	**FB-102-100**	12/73.90	4 Pk./233.00
200mL	25 to 150mL	25mL	**FB-102-200**	12/78.40	4 Pk./247.00
300mL	25 to 250mL	25mL	**FB-102-300**	12/87.50	4 Pk./275.50
400mL	25 to 325mL	25mL	**FB-102-400**	6/48.15	6 Pk./224.50
600mL	50 to 500mL	50mL	**FB-102-600**	6/67.60	4 Pk./213.00
1000mL	50 to 950mL	50mL	**FB-102-1000**	6/91.20	3 Pk./215.50

Fisherbrand® Reusable Glass Heavy-Duty Low-Form Beakers

Sturdy construction ideal for mechanical shock and other harsh applications

- Thick uniform walls
- Evenly tooled top rim with extra wall thickness
- Spout designed for optimum performance
- Durable matte finish marking area
- White graduated scale

FB-101-400

COMPLIANCE:
Designed from ASTM™ Specification E 960, Type II requirements

ALERTS:
Not recommended for use on hotplates where significant thermal gradients exist due to lack of agitation of contents or absence of a temperature control.

Capacity	Graduation Range	Graduated Interval	Cat. No.	Pack of	Case of
250mL	25 to 200mL	25mL	**FB-101-250**	6/158.50	4 Pk./351.50
400mL	25 to 325mL	25mL	**FB-101-400**	4/226.00	4 Pk./458.00
600mL	50 to 500mL	50mL	**FB-101-600**	12/112.00	6 Pk./400.50
1000mL	100 to 1000mL	50mL	**FB-101-1000**	12/149.00	4 Pk./499.50
2000mL	200 to 1800mL	200mL	**FB-101-2000**	4/226.00	2 Pk./347.50
4000mL	500 to 3500mL	500mL	**FB-101-4000**	1/107.50	4 Pk./330.57

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ON THE WEB...

Looking for more Beakers?

Visit www.fishersci.com and search for Beakers

Kimax™ Colorware™ Low-Form Beakers

Kimax-33 glass beakers with brightly colored graduations and marking spot

10-200 Series

- With pouring spout
- Matte-finish marking spot can be marked with ordinary pencil
- Colors make graduated scale easy to read

COMPLIANCE:
Designed from ASTM™ E 960 Type I requirements

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Case of
Raging Red					
50mL	10 to 40mL	10mL	14000R-50	**10-200-51**	12/56.10
100mL	20 to 80mL	10mL	14000R-100	**10-200-6**	12/59.20
150mL	20 to 140mL	20mL	14000R-150	**10-200-10**	12/56.70
250mL	25 to 200mL	25mL	14000R-250	**10-200-14**	12/56.70
400mL	25 to 325mL	25mL	14000R-400	**10-200-18**	12/66.60
600mL	50 to 500mL	50mL	14000R-600	**10-200-22**	6/42.40
1000mL	100 to 1000mL	50mL	14000R-1000	**10-200-26**	6/79.80
Sunny Yellow					
50mL	10 to 40mL	10mL	14000Y-50	**10-200-3**	12/56.10
100mL	20 to 80mL	10mL	14000Y-100	**10-200-52**	12/59.20
150mL	20 to 140mL	20mL	14000Y-150	**02-539-18**	12/56.70
250mL	25 to 200mL	25mL	14000Y-250	**10-200-15**	12/56.70
400mL	25 to 325mL	25mL	14000Y-400	**10-200-19**	12/66.60
600mL	50 to 500mL	50mL	14000Y-600	**10-200-23**	6/42.40
1000mL	100 to 1000mL	50mL	14000Y-1000	**10-200-27**	6/79.80
Cool Green					
50mL	10 to 40mL	10mL	14000G-50	**10-200-50**	12/56.10
100mL	20 to 80mL	10mL	14000G-100	**10-200-49**	12/59.20
150mL	20 to 140mL	20mL	14000G-150	**02-539-16**	12/56.70
250mL	25 to 200mL	25mL	14000G-250	**10-200-13**	12/56.70
400mL	25 to 325mL	25mL	14000G-400	**10-200-17**	12/66.60
600mL	50 to 500mL	50mL	14000G-600	**10-200-21**	6/42.40
1000mL	100 to 1000mL	50mL	14000G-1000	**10-200-25**	6/79.80
Bright Blue					
50mL	10 to 40mL	10mL	14000B-50	**10-200**	12/56.10
100mL	20 to 80mL	10mL	14000B-100	**10-200-48**	12/59.20
150mL	20 to 140mL	20mL	14000B-150	**02-539-15**	12/56.70
250mL	25 to 200mL	25mL	14000B-250	**10-200-12**	12/56.70
400mL	25 to 325mL	25mL	14000B-400	**10-200-16**	12/66.60
600mL	50 to 500mL	50mL	14000B-600	**10-200-20**	6/42.40
1000mL	100 to 1000mL	50mL	14000B-1000	**10-200-24**	6/79.80

Kimax™ Griffin Beakers

With thick, beaded, slightly flared top

- With pouring spout
- Matte-finish enameled marking spot
- 20 to 4000mL sizes have white scales for approximate volume
- Accurate to ±5%
- Uniform, sturdy walls

COMPLIANCE:
Designed from ASTM™ E 960 Type I requirements

02-539J

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
10mL	----	----	14000-10	**02-539C**	12/84.63	4 Pk./247.13
20mL	5 to 15mL	5mL	14000-20	**02-539-1**	12/74.45	4 Pk./217.54
30mL	5 to 25mL	10mL	14000-30	**02-539F**	12/73.83	4 Pk./215.98
50mL	10 to 40mL	10mL	14000-50	**02-539G**	12/73.83	4 Pk./215.98
100mL	20 to 80mL	10mL	14000-100	**02-539H**	12/76.84	4 Pk./224.29
150mL	20 to 140mL	20mL	14000-150	**02-539J**	12/73.52	4 Pk./214.94
250mL	25 to 200mL	25mL	14000-250	**02-539K**	12/73.52	4 Pk./214.94
400mL	25 to 325mL	25mL	14000-400	**02-539L**	12/88.99	4 Pk./260.11
600mL	50 to 500mL	50mL	14000-600	**02-539M**	6/55.03	6 Pk./241.42
800mL	50 to 750mL	50mL	14000-800	**02-539N**	6/75.80	4 Pk./221.69
1000mL	50 to 1000mL	50mL	14000-1000	**02-539P**	6/103.42	4 Pk./302.16
1500mL	200 to 1400mL	200mL	14000-1500	**02-539Q**	4/83.48	4 Pk./244.01
2000mL	200 to 2000mL	100mL	14000-2000	**02-539R**	4/136.80	2 Pk./205.00
4000mL	500 to 3500mL	500mL	14000-4000	**02-539T**	1/108.30	6 Pk./474.53

Kimax™ Griffin Beaker Starter Pack

Ideal for start-up requirements, when variety is preferred or when space or glassware needs are limited

- With pouring spout
- Matte-finish enameled marking spot
- Accurate to ±5%
- Uniform, sturdy walls

ORDERING INFORMATION:
One each per case: 50, 100, 250, 600 and 1000mL.

02-555-2

COMPLIANCE:
Designed from ASTM™ E 960 Type I requirements

Mfr. No.	Cat. No.	Case
14080-01	**02-555-2**	38.65

Kimax™ Heavy-Duty Beakers

Heavy construction prolongs life

- With pouring spout
- With marking spot
- Have white graduations for approximating volume
- Accurate to ±5%
- Thick, uniform walls with extra wall thickness in tooled top rim

COMPLIANCE: Designed from ASTM™ E 960 Type II requirements.

02-555-20A

ALERTS: Not recommended for use on hotplates with thermal gradients or without agitation.

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
250mL	25–200mL	25mL	14005-250	**02-555-20A**	12/138.41	4 Pk./404.44
400mL	25–325mL	25mL	14005-400	**02-555-20B**	12/180.57	4 Pk./527.49
600mL	50–500mL	50mL	14005-600	**02-555-20C**	6/105.19	6 Pk./461.03
1000mL	50–1000mL	50mL	14005-1000	**02-555-20E**	6/200.61	4 Pk./586.67
2000mL	200–1800mL	200mL	14005-2000	**02-555-20G**	4/273.61	2 Pk./399.77
4000mL	500–3500mL	500mL	14005-4000	**02-555-20J**	1/133.60	4 Ea./400.00

Kimble Chase™ Kimax™ Heavy-Duty Griffin Beaker Starter Packs

Ideal for new lab start-up requirements

- An assortment of popular sizes.
- Heavy-duty glass
- Pack includes four Griffin beakers (one each) in sizes of 250 mL, 400 mL, 600 mL and 1000 mL

Pack includes	Mfr. No.	Cat No FS	Price
250 mL, 400 mL, 600 mL and 1000 mL	14085-01	**02-555-101**	55.90

Kimax™ Tall-Form Beakers

With or without pouring spout

- Matte-finish marking spot
- Graduated to indicate approximate volumes
- Berzelius style with flared top, reinforcing bead

COMPLIANCE:
Designed from ASTM™ E 960 Type III (with spout) and Type IV (without spout) requirements

02-539-8

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
With Spout						
100mL	20–80mL	10mL	14030-100	**02-539-7**	12/93.00	4 Pk./275.50
200mL	25–150mL	25mL	14030-200	**02-539-8**	12/97.61	4 Pk./285.03
300mL	25–250mL	25mL	14030-300	**02-539-9**	12/110.20	4 Pk./326.50
400mL	25–325mL	25mL	14030-400	**02-539-6**	6/59.60	6 Pk./261.15
600mL	50–500mL	50mL	14030-600	**02-539-11**	6/85.10	4 Pk./252.50
1000mL	50–950mL	50mL	14030-1000	**02-539-12**	6/115.70	3 Pk./257.00
Without Spout						
100mL	20–80mL	10mL	14020-100	**10-310-5**	---	12/82.70
200mL	25–150mL	25mL	14020-200	**10-310-7**	---	12/76.50
300mL	25–250mL	25mL	14020-300	**10-310-8**	---	12/96.40
400mL	25–325mL	25mL	14020-400	**10-310-9**	---	6/53.80
600mL	50–500mL	50mL	14020-600	**10-310-11**	---	6/68.10
1000mL	50–950mL	50mL	14020-1000	**10-310-6**	---	6/126.20

Kimble Chase™ BEAKERplus™ Combination Beakers and Flasks

Combination design to reduce splashing during agitation with funnels or filters

- Made from KG-33 borosilicate glass
- Graduated
- Wide fluted rim
- Pour spout
- Narrow recessed neck
- Chemical and heat resistant

Combination beaker and flask

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of
150mL	70 × 83mm	14035-150	**02-555-102**	6/164.60
250mL	70 × 107mm	14035-250	**02-555-103**	6/176.30
500mL	70 × 178mm	14035-500	**02-555-104**	6/195.20
1000mL	95 × 222mm	14035-1000	**02-555-105**	2/78.70
1200mL	95 × 254mm	14035-1200	**02-555-106**	2/87.70

Pyrex™ Brand Griffin Beakers

With spouts and strengthened rim with flare trimmed back that offer optimum balance between thermal shock resistance and mechanical strength

- With pouring spout
- Extra-large marking spot
- Dual white scale
- 10 to 50mL sizes suitable for microanalysis
- 10mL size is not graduated
- 250 through 4000mL capacity beakers have double graduated metric scale

COMPLIANCE:
Designed to meet ASTM™ E-960 requirements

02-540K

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
10mL	—	—	1000-10	**02-540C**	12/76.00	4 Pk./226.00
20mL	5–15mL	5mL	1000-20	**02-540E**	12/65.80	4 Pk./195.60
30mL	5–25mL	10mL	1000-30	**02-540F**	12/65.10	4 Pk./193.60
50mL	10–40mL	10mL	1000-50	**02-540G**	12/65.80	4 Pk./195.50
100mL	20–80mL	10mL	1000-100	**02-540H**	12/69.60	4 Pk./207.00
150mL	20–140mL	10mL	1000-150	**02-540J**	12/64.90	4 Pk./187.60
250mL	25–200mL	25mL	1000-250	**02-540K**	12/66.60	4 Pk./198.20
400mL	25–325mL	25mL	1000-400	**02-540L**	12/78.30	4 Pk./233.00
600mL	50–500mL	50mL	1000-600	**02-540M**	6/50.60	6 Pk./222.00
800mL	50–750mL	50mL	1000-800	**02-540N**	6/68.00	4 Pk./202.50
1000mL	50–1000mL	50mL	1000-1L	**02-540P**	6/93.70	4 Pk./279.00
1500mL	200–1400mL	100mL	1000-1XL	**02-540Q**	4/74.90	4 Pk./223.00
2000mL	200–2000mL	100mL	1000-2L	**02-540R**	4/122.60	2 Pk./182.40
3000mL	250–2500mL	125mL	1000-3L	**02-540S**	1/54.00	6/235.50
4000mL	500–3500mL	250mL	1000-4L	**02-540T**	1/99.40	6/433.50

Pyrex™ Brand Heavy-Duty Griffin Beakers

For use under harsh conditions such as mechanized washing

- With pouring spout
- Extra-large marking spot
- 250 through 4000mL beakers have double graduated metric scales

COMPLIANCE:
Designed to ASTM™ E 960 requirements.

02-555-25H, -25F, -25D, and -25C

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
150mL	20 to 140mL	20mL	1003-150	**02-555-25A**	12/125.00	4 Pk./372.00
250mL	25 to 200mL	25mL	1003-250	**02-555-25B**	12/124.70	4 Pk./371.00
400mL	25 to 325mL	25mL	1003-400	**02-555-25C**	12/162.40	4 Pk./483.50
600mL	50 to 500mL	50mL	1003-600	**02-555-25D**	6/95.50	6 Pk./422.50
1000mL	50 to 1000mL	50mL	1003-1L	**02-555-25F**	6/180.70	4 Pk./537.50
4000mL	500 to 3500mL	250mL	1003-4L	**02-555-25K**	1/125.50	4 Pk./358.00

Pyrex™ Brand Tall-Form Beakers

Graduated to indicate approximate content

- With pouring spout
- Extra-large marking spot
- White enamel graduations

COMPLIANCE:
Designed to ASTM™ E 960 requirements.

From left: 02-546G, 02-546F, 02-546C

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
100mL	20–80mL	10mL	1060-100	**02-546A**	12/85.10	4 Pk./247.25
200mL	25–150mL	25mL	1060-200	**02-546B**	12/90.80	4 Pk./270.50
300mL	25–250mL	25mL	1060-300	**02-546C**	12/100.60	4 Pk./299.50
400mL	25–325mL	25mL	1060-400	**02-546D**	6/54.60	6 Pk./237.98
500mL	50–450mL	50mL	1060-500	**02-546E**	6/59.50	5 Pk./221.50
600mL	50–550mL	50mL	1060-600	**02-546F**	6/77.70	4 Pk./231.50
1000mL	50–950mL	50mL	1060-1L	**02-546G**	6/104.30	3 Pk./233.00

Pyrex™ Vista™ Griffin Beakers

Provide balance between thermal shock resistance and mechanical strength

- With pouring spout
- Extra large marking spot
- 10mL size is not graduated
- 250 through 1000mL beakers have a double graduated metric scale

COMPLIANCE:
Designed to ASTM™ E 960 requirements.

07-250-056

Capacity	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Pack of	Case of
10mL	----	----	70000-10	**07-250-050**	12/57.30	2 Pk./85.30
20mL	5-15mL	5mL	70000-20	**07-250-051**	12/49.30	2 Pk./73.40
30mL	5-25mL	10mL	70000-30	**07-250-052**	12/49.30	2 Pk./73.40
50mL	10-40mL	10mL	70000-50	**07-250-053**	12/49.80	2 Pk./74.20
100mL	20-80mL	10mL	70000-100	**07-250-054**	12/52.70	2 Pk./78.30
150mL	20-140mL	10mL	70000-150	**07-250-055**	12/49.80	2 Pk./74.20
250mL	25-200mL	25mL	70000-250	**07-250-056**	12/45.35	2 Pk./65.85
400mL	25-325mL	25mL	70000-400	**07-250-057**	12/53.90	2 Pk./80.30
600mL	50-500mL	50mL	70000-600	**07-250-058**	6/33.85	2 Pk./50.50
1000mL	50-1000mL	50mL	70000-1L	**07-250-059**	6/64.60	2 Pk./96.00

Pyrex™ Brand Pharmaceutical Beakers

With double spout and double scale

- With marking spot
- Graduated in mL and oz.
- Heavy wall construction

ALERTS:
Do not subject directly to heat source.

02-558B

Capac./Scale	Grad. Range	Grad. Interval	Mfr. No.	Cat. No.	Each	Case of
125mL/4 oz.	5–125mL	5mL	6480-125	**02-558A**	75.80	12/637.50
250mL/8 oz.	10–250mL	10mL	6480-250	**02-558B**	97.30	12/820.00
500mL/16 oz.	25–500mL	25mL	6480-500	**02-558C**	128.50	12/1084.00
1000mL/32 oz.	50–1000mL	50mL	6480-1L	**02-558D**	154.90	6/653.50
2000mL/64 oz.	50–2000mL	50mL	6480-2L	**02-558E**	236.00	6/993.50

Reusable - Plastic

Fisherbrand® Low-Form Polypropylene Beakers

Smooth, tapered design facilitates easy handling and pouring

- Resistant to most acids, bases and many commonly used solvents
- Shatter resistant
- Easy-to-read, blue printed graduations
- "No Flame" symbol and SPI recycling code
- Anti-lock feature prevents beakers from sticking together when stacked
- Autoclavable
- Withstand temperatures up to 121°C (250°F)

02-591-30

Capacity	Cat. No.	Pack of
25mL	02-591-25	10/46.80
50mL	02-591-26	10/46.35
100mL	02-591-27	10/57.60
250mL	02-591-28	10/89.55
400mL	02-591-29	10/131.61
500mL	02-591-30	10/142.10
600mL	02-591-31	5/84.00
1000mL	02-591-32	5/122.56
2000mL	02-591-33	1/50.48
3000mL	02-591-34	1/55.62
5000mL	02-591-35	1/75.27

Fisherbrand® Low-Form Polypropylene Beakers with Handles

For safe and easy pouring

- Convenient spout
- Made of chemical-resistant polypropylene
- Graduated in L and mL
- Autoclavable

02-543-36C

Capacity	Cat. No.	Case of
500mL	02-543-36B	24/254.50
1000mL	02-543-36C	24/227.74
2000mL	02-543-36D	12/164.20
3000mL	02-543-36E	12/206.00
5000mL	02-543-36F	12/746.50

Fisherbrand® "Square Ratio" Polypropylene Beaker Set

With permanently colored graduation scales and marking areas

- Straight sides for maximum stability
- All sizes have pouring spouts
- Withstands temperatures to 135°C (275°F)
- Autoclavable

ORDERING INFORMATION:
Set consists of one each of 50, 100, 250, 500 and 1000mL beakers. 2000mL size available separately.

02-591-16

ALERTS:
Not for use on burners.

Cat. No.	Pack of	Case of
02-591-16	5/57.49	10 Pk./461.51

Fisherbrand® Intermediate-Form Polypropylene Beakers with Handles

Chemical-resistant, with a convenient pouring spout

- With ergonomic, comfortable handles for safer pouring
- Beaker bottoms are designed so they will not slide or create suction and stick to laboratory countertops
- Graduations in liters and milliliters are in easy-to-read blue print
- Autoclavable

02-591-40

Capacity	Cat. No.	Pack of
50mL	02-591-36	5/46.60
100mL	02-591-37	5/49.35
250mL	0259138	1/14.73
500mL	02-591-39	1/15.07
1000mL	02-591-40	1/17.76
2000mL	0259141	1/21.70
3000mL	0259142	1/25.05
5000mL	0259143	1/68.60

Thermo Scientific™ Nalgene™ Griffin Low-Form Beakers; PMP

Transparent as glass with excellent chemical resistance

02-591-15 Series

- Transparent PMP material allows for a clear view of beaker contents
- No-drip, single-spout design provides precision pouring control
- With ribs for easy stacking
- Silk screened with graduations, size code, resin code, catalog number, max. temperature and "No Flame" symbol for easy identification and safe use
- Not for use on hotplates
- Autoclavable/Graduated/Transparent

COMPLIANCE:
Meets ISO/DIN 7056 International Standards for Laboratory Plasticware Beakers

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
30mL	1203-0030	**02-591-15A**	12/77.40	3 Pk./153.28
50mL	1203-0050	**02-591-15B**	12/83.80	3 Pk./161.90
100mL	1203-0100	**02-591-15C**	12/95.50	3 Pk./184.50
150mL	1203-0150	**02-591-15D**	12/125.30	3 Pk./242.50
250mL	1203-0250	**02-591-15E**	6/82.40	4 Pk./212.50
400mL	1203-0400	**02-591-15F**	6/119.39	4 Pk./315.31
600mL	1203-0600	**02-591-15G**	4/97.44	3 Pk./192.93
1000mL	1203-1000	**02-591-15H**	3/91.20	4 Pk./235.00
2000mL	1203-2000	**02-591-15J**	1/65.00	4 Pk./167.50
4000mL	1203-4000	**02-591-15AA**	1/102.40	4 Pk./263.50

Thermo Scientific™ Nalgene™ Graduated Beakers with Handles; PMP

Transparent, autoclavable and break resistant

02-591-9A, -9C

- Withstand continuous exposure to temperatures as high as 150°C and intermittent temperatures to 175°C (347°F)
- Transparent to microwaves
- Transparent PMP material allows a clear view of beaker contents
- Molded in graduation in both oz. and mL won't wear off with continuous use or washings
- Excellent chemical resistance to acids, bases and aliphatic alcohols make these beakers useful for a broad range of solutions
- Sturdy, molded in rectangular handle provides easy, safe handling and pouring
- Autoclavable/Transparent/Graduated
- Not for use on hotplates

COMPLIANCE: Meet ISO/DIN 7056 standards.

Capacity	Mfr. No.	Cat. No.	Each	Case of
1000mL	1223-1000	**02-591-9A**	83.44	6/330.49
3000mL	1223-3000	**02-591-9C**	97.45	6/386.12

Thermo Scientific™ Nalgene™ Griffin Low-Form Beakers; PP

Excellent chemical resistance and convenient stacking

02-591-10 Series

- No drip, single-spout design provides precision pouring control
- With ribs for easy stacking
- Silk screened with graduations, size code, resin code, catalog number, max. temperature and "No Flame" symbol for easy identification and safe use
- Autoclavable/Graduated

COMPLIANCE:
Meet ISO/DIN 7056 International Standards for Laboratory Plasticware Accuracy

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
30mL	1201-0030	**02-591-10AA**	12/53.10	4 Pk./136.60
50mL	1201-0050	**02-591-10A**	12/53.10	4 Pk./136.70
100mL	1201-0100	**02-591-10B**	12/64.70	4 Pk./166.50
150mL	1201-0150	**02-591-10C**	12/83.00	4 Pk./214.00
250mL	1201-0250	**02-591-10D**	6/57.50	6 Pk./222.00
400mL	1201-0400	**02-591-10E**	6/83.00	6 Pk./320.50
600mL	1201-0600	**02-591-10F**	4/70.50	6 Pk./272.50
1000mL	1201-1000	**02-591-10G**	3/67.60	4 Pk./173.90
2000mL	1201-2000	**02-591-10H**	1/49.20	6 Pk./190.00
4000mL	1201-4000	**02-591-10J**	1/84.60	4 Pk./218.00

Thermo Scientific™ Nalgene™ Griffin Low-Form Beakers; Teflon™ PFA

Stand up to the toughest lab use

No-drip single-spout design provides precision pouring control.

From left: 02-591-22A, 02-591-40H, 02-591-22C

- Highly resistant to most chemicals, including the strongest sulfuric, nitric, chromic and phosphoric acids — will not contaminate contents with leachables
- Withstands extreme temperatures from –270°C to +250°C for versitility in your lab
- Not for use on hotplates
- Autoclavable/PFA

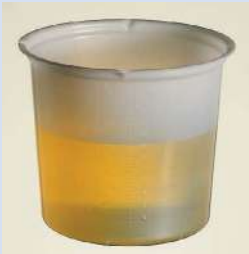
Capac.	Mfr. No.	Cat. No.	Case of
50mL	1510-0050	**02-591-22A**	6/315.08
100mL	1510-0100	**02-591-40C**	6/366.72
250mL	1510-0250	**02-591-22C**	6/681.79
600mL	1510-0600	**02-591-40G**	4/805.40
1005mL	1510-1000	**02-591-40H**	4/1220.00

Disposable

Fisherbrand® Graduated Polystyrene Beakers

Economical throwaway beakers make excellent sample containers

- Four-way pour spout for flexibility
- Chemical resistant to dilute or weak acids, aqueous solutions, alcohols and bases
- Withstand temperatures to 93°C (200°F)
- Graduations in mL and oz., accurate to ±2%



08-732-124

Capacity	Cat. No.	Case of 100
150mL	**08-732-123**	50.78
250mL	**08-732-124**	55.87
800mL	**08-732-125**	99.14
1000mL	**08-732-126**	111.81

Fisherbrand® Polypropylene Disposable Beakers

Unbreakable and can be thrown away after use or steam-autoclaved for reuse

- Highly resistant to strong acids, organic solvents and other common laboratory reagents
- Special "dripless" lip
- Rib construction permits stacking without binding
- Base allows beaker to sit flat during use
- Graduated in mL and oz.

01-291 Series

Capacity	Grad. Interval	Cat. No.	Pack of	Case of
15mL	5mL	**01-291-8**	100/23.09	10 Pk./195.34
30mL	5mL	**01-291-9**	100/23.76	10 Pk./200.91
50mL	5mL	**01-291-10**	100/27.45	10 Pk./218.50
100mL	5mL	**01-291-7**	100/38.70	10 Pk./311.00
150mL	5mL	**01-291-11**	100/61.04	10 Pk./516.73
250mL	10mL	**01-291-5**	50/37.25	10 Pk./315.10
400mL	25mL	**01-291-12**	50/59.74	10 Pk./505.56
600mL	50mL	**01-291-6**	25/34.55	20 Pk./584.75

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location. Visit **www.fishersci.com/movingon** to learn more.

Fisherbrand® Polystyrene Beakers

Ideal for use as sample containers

- 20mL size is useful in flame photometry
- 5mL size can be used in atomic absorption spectroscopy and flame photometry

08-732-121

ORDERING INFORMATION:
Packaged in cardboard sleeves of 100.

Capacity	Cat. No.	Pack of
5mL	**08-732-119**	1000/119.98
10mL	**08-732-121**	1000/179.06
20mL	**08-732-120**	500/168.35
50mL	**08-732-122**	500/226.78

Fisherbrand® Polystyrene Beakers with Pouring Lip

For urine or sputum

- Clear polystyrene
- Top-to-bottom channel for "Quantity Not Sufficient" specimen and strip tests
- Resistant to dilute or weak acids
- Stackable
- Graduated in oz., cc and mL

14-955-112

Description	Cat. No.	Price
6.5 oz. (190mL)	**14-955-112**	Cs. of 500/187.52
Lids	**14-955-113**	Pk. of 25/7.82

Fisherbrand® Tri-Cornered Polypropylene Beakers

Unaffected by commonly used acids, alkalis and solvents

- Tri-cornered lip for dripless pouring
- Sturdy enough for autoclaving and reuse, yet inexpensive enough to be disposable
- Easy-to-read graduations in L and mL
- Accurate to ±5.0%

14-955-111A

Capacity	Cat. No.	Case of 100
50mL	**14-955-111A**	86.00
100mL	**14-955-111B**	96.60
250mL	**14-955-111C**	149.80
400mL	**14-955-111D**	169.50
800mL	**14-955-111E**	224.00
1000mL	**14-955-111F**	248.00

Bench Protectors

Fisherbrand® Absorbent Surface Liners

Economical protection for benchtops, floors and carts

- Soft, durable and highly absorbent multilayer liner cushions surfaces and absorbs and retains spills
- Waterproof polypropylene backing resists most chemicals
- Easily cut to desired size
- White
- Ideal for protecting benches and surfaces
- Available in roll or dispenser box

14-127-47, 14-127-46

Description	W × L	Cat. No.	Each	Case of
Dispenser Box	20" × 50' (51cm × 15.2m)	**14-127-46**	----	6/283.00
Roll	20" × 300' (51cm × 91.4m)	**14-127-47**	175.40	----

Fisherbrand® Absorbent Surface Protector

Disposable sheets of absorbent paper with polyethylene backing

- Ideal for preventing glass breakage, protecting benches, absorbing liquids and lining humidity chambers and fume cupboards
- Paper side quickly absorbs liquids and keeps spills from spreading
- Polyethylene side prevents liquids from reaching work area and is useful for sample recovery

14-666-300

W × L	Cat. No.	Pack of 50	Case of 8 Packs
18 × 22.5" (46 × 57cm)	**14-666-301**	124.51	449.39

Fisherbrand® Absorbent Underpads

Quickly absorb liquids and keep spills from spreading

Cushioned surface minimizes breakage of delicate labware.

- Made with high-absorbency fibers
- Polyethylene backing is chemical resistant, and the spunbond top layer provides durability even when wet
- Lie flat, hugging the benchtop to prevent sliding
- Absorb up to 750mL/m2

14-206-62

L × W	Cat. No.	Each	Pack of	Case of
Mats				
24 × 20" (61 × 51cm)	**14-206-62**	----	50/75.80	5 Pk./297.00
36 × 20" (91 × 51cm)	**14-206-63**	----	25/60.70	5 Pk./236.50
Rolls in dispenser packs				
100' × 20" (30m × 51cm)	**14-206-64**	----	1/88.10	4/293.50
250' × 20" (76m × 51cm)	**14-206-65**	----	----	1/161.70

Fisherbrand® Lab Matting

Easy to clean, easy to cut

Protects drawers, shelves and benches from chemicals, spills and dirt.

- Clear polyethylene ribbed matting cushions instruments, reduces glassware breakage
- Five times thicker (0.036" [9mm]) than normal shelf liner, but won't ripple and lies flat

14-203A

L × W	Cat. No.	Each
15' × 30" (4.4m × 76cm)	**14-203A**	39.90
100' × 30" (30m × 76cm)	**14-203B**	231.00

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Saint-Gobain™ Chemware™ PTFE Laboratory Matting

Chemically inert—resists adhesion of practically any material

1420640

- Corrosion- and break-resistant lining for benches, shelves, sinks and drain boards helps to reduce glassware breakage
- Useful as mesh bag for dipping parts in corrosive chemicals and solvents
- Easy to clean
- Diamond-shaped PTFE mesh sheeting is 0.06" thick (1.6mm) with 0.25" (6mm) openings

W × L	Mfr. No.	Cat. No.	Each
12" × 10' (31cm × 3m)	D1069328	**1420640**	442.00

Thermo Scientific™ Nalgene™ CleanSheets™ Bench/Drawer Liner

Acts as sink liner or titration background

12-007 Series

- Made of 0.125" (3.2mm) thick closed-cell polyethylene foam to cushion benchtop items
- Smooth and resilient, this nonabsorbent pad is versitile in your lab — use for a multitude of purposes
- Excellent chemical resistance provides protection wherever placed against spills
- Can be cut to any size to fit benches, shelves, drawers — anywhere protection is needed against spills, vibration, heat, dirt or breakage
- Nonabsorbant

W × L	Mfr. No.	Cat. No.	Each	Case of
12" × 50' (31cm × 15.2m)	6283-1250	**12-007-104**	265.98	2/349.39
18" × 50' (46cm × 15.2m)	6283-1850	**12-007-105**	375.00	2/502.00
30" × 50' (76cm × 15.2m)	6283-3050	**12-007-106**	508.07	2/668.51

Whatman™ Benchkote™ Surface Protector Pads

Designed to protect laboratory surfaces against hazardous spills

12007181

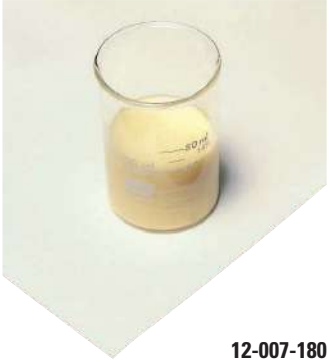
- Fifty Benchkote sheets in handy dispenser

W × L	Mfr. No.	Cat. No.	Each
18 × 22.50" (46 × 57cm)	2300-594	**12007181**	181.90

Whatman™ Benchkote™ Surface Protectors

Suitable for saturation with disinfectant

- High-quality absorbent paper coated on one side with an impermeable layer of polyethylene that prevents liquids from reaching benchtops
- Paper side absorbs solvents, toxic liquids, pathogens and radiochemicals and can be written on with ink or pencil
- Benchkote Plus™ sheets and rolls have a thicker absorbent layer than standard Benchkote protectors and can absorb more than 0.75L/m2



12-007-180

W × L	Mfr. No.	Cat. No.	Each	Pack of
Benchkote Sheets				
18 × 22.50" (46 × 57cm)	2300-916	**12-007-180**	----	50/167.70
Benchkote Rolls				
18" × 164' (46cm × 50m)	2300-731	**12-007-182A**	283.50	1/283.50
36" × 164' (92cm × 50m)	2300-772	**12-007-182B**	567.00	1/567.00
Benchkote Plus Sheets				
19 × 23" (48 × 58cm)	2301-6150	**12-007-183A**	----	50/193.50
Benchkote Plus Roll				
23" × 164' (58cm × 50m)	2301-6160	**12-007-183B**	383.00	1/383.00

Blenders

Seward™ Stomacher™ Model 80 MicroBiomaster Blender

Designed to process samples between 250µL and 80mL

Offers fast, reliable and efficient blending and homogenizing.

13-874-750

- Features continuous adjustment of paddle speed, pressure and processing time right on the door
- Compact design saves valuable bench space
- Durable construction
- Paddles apply pressure to a sample within a sealed sterile disposable bag helping to ensure that contents are blended thoroughly
- Deep-seated organisms are effectively washed out without bags leaking or bursting
- Quiet operation; three paddle speeds
- Speed range: 200 to 260rpm
- Timer settings 30, 60 and 120 seconds, continuous adjustment

APPLICATIONS:
C. botulinum detection, food microbiology, tissue biopsies and fecal samples

Capacity	Electrical Requirements	Mfr. No.	Cat. No.	Each
250µL to 80mL	115V 60Hz, 75w	030010020	**13-874-750**	6010.00

Seward™ Stomacher™ Model 80 Biomaster Blender

Designed to process samples between 5mL and 80mL

Compact size, reliability and performance has made it a standard processing tool in bioscience and healthcare, processing a range of samples from plant and animal tissue to china clay.

14-285-27

- Ideal for processing samples of a bio hazardous nature as the sample is contained at all times in a sterile plastic bag
- Prevents aerosol release into the lab and cross contamination of samples
- Small size allows it to fit conveniently into safety cabinets

Description	Mfr. No.	Cat. No.	Each
Model 80 Lab Blender, 5-80mL, 110V	30010019	**14-285-27**	6390.00
Door Upgrade Kit	30010700	**13-874-752**	1326.64

ON THE WEB...

Looking for Stomacher and/or Blender Bags?

Visit www.fishersci.com and search for Blender Bags

Seward™ Stomacher™ Model 400C Circulator Lab Blender

Has a patented paddle action designed to maximize the extraction of micro-organisms from food samples

- Paddle produces crushing, washing and circulation of the sample in the bag
- Has been microbiologically proven to out-perform all rectangular paddle models across a broad range of food sample types and textures
- One-touch, user-programmable time and speed functions
- Three paddle speeds, variable time settings from 1 second to 99 minutes and 59 seconds
- Auto-run for hands-free operation

14-285-29

Control Speed	Model	Electrical Requirements	Mfr. No.	Cat. No.	Each
Variable speed to 300rpm max.	400C	110V 60Hz, 170w	30010108	**14-285-29**	7160.00

Seward™ Stomacher™ Model 3500 Jumbo Lab Blender

Designed for large-volume samples

Offers fast, reliable and efficient blending and homogenizing.

14-285-32

- Features paddles that apply pressure to a sample within a sealed sterile disposable bag
- Helps to ensure that contents are blended thoroughly and that deep-seated organisms are effectively washed out
- Durable construction
- Quiet operation

APPLICATIONS:
Blending of powders and sterility testing of disposable products.

INCLUDES:
Bags

Capacity	Control Speed	Electrical Requirements	Mfr. No.	Cat. No.	Each
1000 to 3500mL	Variable speed to 180rpm max.	110V 60Hz, 90w	30010205	**14-285-32**	14,670.00

ON THE WEB...

Looking for more Blenders and/or Blender Accessories?

Visit www.fishersci.com and search for Waring™ Laboratory Blenders

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Bottles

Glass - Boston Rounds

Fisherbrand® Clear Boston Rounds with PE Cone Caps

Economical, high quality bottles for storing liquid samples

- Type III soda-lime glass
- Clear for easy viewing of contents
- Narrow mouth

02-911-780, -752, -778, -781

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-911-782**	48/129.64
2 oz. (60mL)	20mm-400	**02-911-783**	24/63.87
4 oz. (125mL)	22mm-400	**02-911-784**	24/80.43
8 oz. (250mL)	24mm-400	**02-911-785**	12/56.88
16 oz. (500mL)	28mm-400	**02-911-750**	12/66.27
32 oz. (1000mL)	33mm-400	**02-911-751**	12/88.21

Without Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-911-940**	432/413.00
2 oz. (60mL)	20mm-400	**02-911-944**	288/292.50
4 oz. (125mL)	22mm-400	**02-911-945**	160/201.50
8 oz. (250mL)	24mm-400	**02-911-872**	108/272.15
16 oz. (500mL)	28mm-400	**02-911-939**	60/182.03
32 oz. (1000mL)	33mm-400	**02-911-927**	12/72.40

With PTFE-Faced PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-911-786**	48/171.18
2 oz. (60mL)	20mm-400	**02-911-787**	24/90.74
4 oz. (125mL)	22mm-400	**02-911-788**	24/102.30
8 oz. (250mL)	24mm-400	**02-911-789**	12/59.85
16 oz. (500mL)	28mm-400	**02-911-753**	12/79.17
32 oz. (1000mL)	33mm-400	**02-911-754**	12/116.10

With Rubber-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-911-756**	48/69.90
2 oz. (60mL)	20mm-400	**02-911-757**	24/42.71
4 oz. (125mL)	22mm-400	**02-911-759**	24/46.34
8 oz. (250mL)	24mm-400	**02-911-760**	12/30.85
16 oz. (500mL)	28mm-400	**02-911-755**	12/39.95
32 oz. (1000mL)	33mm-400	**02-911-758**	12/56.10

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-911-779**	48/120.77
2 oz. (60mL)	20mm-400	**02-911-752**	24/65.71
2 oz. (60mL)	20mm-400	**02-911-790**	288/377.00
4 oz. (125mL)	22mm-400	**02-911-780**	24/73.32
4 oz. (125mL)	22mm-400	**02-911-730**	160/514.15
8 oz. (250mL)	24mm-400	**02-911-781**	12/44.90
8 oz. (250mL)	24mm-400	**02-911-732**	108/423.50
16 oz. (500mL)	28mm-400	**02-911-777**	12/57.64
16 oz. (500mL)	28mm-400	**02-911-726**	60/317.71
32 oz. (1000mL)	33mm-400	**02-911-778**	12/115.06

Fisherbrand® Safety-Coated Clear Boston Rounds

For field sampling applications

- Type III soda-lime glass
- Shatter-resistant coating reduces chance of breakage
- If broken, safety coating will contain contents long enough for disposal
- Nonslip coating also allows greater ease of stability, wet or dry
- Not autoclavable

02-911-921

Capacity	Screw Cap Size	Cat. No.	Case of
With PE Cone Caps			
8 oz. (250mL)	24mm-400	**02-911-973**	12/142.51
16 oz. (500mL)	28mm-400	**02-911-971**	12/190.08
32 oz. (1000mL)	33mm-400	**02-911-972**	12/146.00
With Polyvinyl-Lined Caps			
8 oz. (250mL)	24mm-400	**02-911-818**	12/151.59
16 oz. (500mL)	28mm-400	**02-911-819**	12/104.80
32 oz. (1000mL)	33mm-400	**02-911-820**	12/144.60
With PTFE-faced, PE-Lined Caps			
8 oz. (250mL)	24mm-400	**02-911-821**	12/82.10
16 oz. (500mL)	28mm-400	**02-911-822**	12/181.79
32 oz. (1000mL)	33mm-400	**02-911-823**	12/127.10
With Rubber-Lined Caps			
250mL	22mm-400	**02-911-910**	12/123.50
500mL	28mm-400	**02-912-318**	12/208.23
Bottles Only			
8 oz. (250mL)	24mm-400	**02-911-860**	108/665.00
16 oz. (500mL)	28mm-400	**02-911-921**	60/257.00
32 oz. (1000mL)	33mm-400	**02-911-922**	30/193.80

Fisherbrand® Amber Boston Rounds with PE Cone-Lined Caps

Value-priced bottles for light sensitive solvents, chemicals and samples

- Type III soda-lime glass
- Narrow mouth

02-911-905, -744, -902, -735

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	18mm-400	**02-911-861**	720/1266.62
1 oz. (30mL)	20mm-400	**02-912-339**	48/101.59
2 oz. (60mL)	20mm-400	**02-911-734**	24/74.72
2 oz. (60mL)	20mm-400	**02-911-898**	288/409.00
4 oz. (125mL)	22mm-400	**02-911-735**	24/82.78
4 oz. (125mL)	22mm-400	**02-911-895**	160/179.50
8 oz. (250mL)	24mm-400	**02-911-736**	12/97.39
8 oz. (250mL)	24mm-400	**02-911-900**	108/213.00
16 oz. (500mL)	28mm-400	**02-911-743**	12/71.85
16 oz. (500mL)	28mm-400	**02-911-878**	60/253.75
32 oz. (1000mL)	33mm-400	**02-911-744**	12/93.30
32 oz. (1000mL)	33mm-400	**02-911-899**	30/115.20

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	18mm-400	**02-911-793**	720/1136.00
1 oz. (30mL)	20mm-400	**02-912-337**	48/83.80
2 oz. (60mL)	20mm-400	**02-911-746**	24/69.17
2 oz. (60mL)	20mm-400	**02-911-742**	288/388.77
4 oz. (125mL)	22mm-400	**02-911-748**	24/73.77
4 oz. (125mL)	22mm-400	**02-911-723**	160/547.85
8 oz. (250mL)	24mm-400	**02-911-749**	12/71.91
8 oz. (250mL)	24mm-400	**02-911-724**	108/376.99
16 oz. (500mL)	28mm-400	**02-911-745**	12/89.67
16 oz. (500mL)	28mm-400	**02-911-725**	60/286.97
32 oz. (1000mL)	33mm-400	**02-911-747**	12/133.60
32 oz. (1000mL)	33mm-400	**02-911-729**	30/275.78

With PTFE-Faced, PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-912-338**	48/102.42
2 oz. (60mL)	20mm-400	**02-911-737**	24/89.26
4 oz. (125mL)	22mm-400	**02-911-740**	24/98.05
8 oz. (250mL)	24mm-400	**02-911-741**	12/66.80
16 oz. (500mL)	28mm-400	**02-911-738**	12/85.18
32 oz. (1000mL)	33mm-400	**02-911-739**	12/111.65

With Rubber-Lined Closures

Capacity	Screw Cap Size	Cat. No.	Case of
2 oz. (60mL)	20-400mm	**02-912-340**	24/41.75
4 oz. (125mL)	22-400mm	**02-912-341**	24/46.10
8 oz. (250mL)	24-400mm	**02-912-342**	12/28.30
16 oz. (500mL)	28-400mm	**02-912-343**	12/67.90
32 oz. (1000mL)	33-400mm	**02-912-344**	12/102.60

Bottles Only (Without Caps)

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	18mm-400	**02-911-794**	720/869.00
2 oz. (60mL)	20mm-400	**02-911-908**	288/411.00
4 oz. (125mL)	22mm-400	**02-911-904**	160/205.50
8 oz. (250mL)	24mm-400	**02-911-905**	108/168.10
16 oz. (500mL)	28mm-400	**02-911-902**	60/151.20
32 oz. (1000mL)	33mm-400	**02-911-903**	30/114.70

Fisherbrand® Safety-Coated Amber Boston Rounds

Available with PE Cone-, Polyvinyl- and PTFE-lined closures

- Amber Type III soda-lime glass
- Narrow-mouth

02-911-901, -970

Capacity	Screw Cap Size	Cat. No.	Case of
With PE Cone Closures			
4 oz. (125mL)	22mm-400	**02-911-896**	24/149.50
8 oz. (250mL)	24mm-400	**02-911-970**	12/145.90
16 oz. (500mL)	28mm-400	**02-911-969**	12/99.70
32 oz. (1000mL)	33mm-400	**02-911-901**	12/140.30
With Polyvinyl-Lined Closures			
4 oz. (125mL)	22mm-400	**02-911-897**	24/141.90
8 oz. (250mL)	24mm-400	**02-911-813**	12/77.60
16 oz. (500mL)	28mm-400	**02-911-812**	12/105.80
32 oz. (1000mL)	33mm-400	**02-911-816**	12/144.20
With PTFE-Lined Closures			
4 oz. (125mL)	22mm-400	**02-911-894**	24/153.00
8 oz. (250mL)	24mm-400	**02-911-815**	12/81.90
16 oz. (500mL)	28mm-400	**02-911-817**	12/108.00
32 oz. (1000mL)	33mm-400	**02-911-814**	12/154.10

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Clear Boston Rounds

- Narrow-mouth design
- Type III soda-lime glass

13-756 Series

Bottles Only

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs				
1 oz. (30mL)	20mm-400	5110120B	**13-756-938**	432/755.91
2 oz. (60mL)	20mm-400	5110220B	**13-756-939**	288/363.50
4 oz. (125mL)	22mm-400	5110422B	**13-756-940**	160/221.50
8 oz. (250mL)	24mm-400	5110824B	**13-756-941**	108/223.50
16 oz. (500mL)	28mm-400	5111628B	**13-756-942**	60/190.50
32 oz. (1000mL)	33mm-400	5113233B	**13-756-943**	12/48.95

With Taperseal Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs				
1 oz. (30mL)	20mm-400	5110120V 25	**13-756-914**	48/228.00
2 oz. (60mL)	20mm-400	5110220V 25	**13-756-915**	24/164.90
4 oz. (125mL)	22mm-400	5110422V 25	**13-756-916**	24/132.00
8 oz. (250mL)	24mm-400	5110824V 25	**13-756-917**	12/65.50
16 oz. (500mL)	28mm-400	5111628V 25	**13-756-918**	12/62.10
32 oz. (1000mL)	33mm-400	5113233V 25	**13-756-919**	12/118.20
Bulk Packs				
1 oz. (30mL)	20mm-400	5110120C 25	**13-756-920**	432/515.50
4 oz. (125mL)	22mm-400	5110422C 25	**13-756-922**	160/306.50
8 oz. (250mL)	24mm-400	5110824C 25	**13-756-923**	108/288.50
16 oz. (500mL)	28mm-400	5111628C 25	**13-756-924**	60/171.50
32 oz. (1000mL)	33mm-400	5113233C 25	**13-756-925**	12/56.60

ON THE WEB...

Looking for more cap styles?

Visit www.fishersci.com and search for Qorpak

Kimble-Chase Amber Boston Rounds

- Narrow-mouth design
- Type III soda lime glass
- Amber protects light-sensitive contents

13-756-5 Series

Bottles Only

NOTES: Caps not included

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs				
4 oz. (125mL)	22mm-400	5120422B	**13-756-596**	160/435.50
8 oz. (250mL)	24mm-400	5120824B	**13-756-597**	108/308.50
16 oz. (500mL)	28mm-400	5121628B	**13-756-598**	60/275.00
32 oz. (1000mL)	33mm-400	5123233B	**13-756-599**	12/64.10

With PTFE-Faced, PE-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs				
1 oz. (30mL)	20mm-400	5120120V 26	**13-756-582**	48/176.20
2 oz. (60mL)	20mm-400	5120220V 26	**13-756-583**	24/134.60
4 oz. (125mL)	22mm-400	5120422V 26	**13-756-584**	24/136.60
8 oz. (250mL)	24mm-400	5120824V 26	**13-756-585**	12/83.40
16 oz. (500mL)	28mm-400	5121628V 26	**13-756-586**	12/104.30
32 oz. (1000mL)	33mm-400	5123233V 26	**13-756-587**	12/161.30
Bulk packs				
1 oz. (30mL)	20mm-400	5120120C 26	**13-756-588**	432/594.64
4 oz. (125mL)	22mm-400	5120422C 26	**13-756-590**	160/305.50
8 oz. (250mL)	24mm-400	5120824C 26	**13-756-591**	108/257.50
16 oz. (500mL)	28mm-400	5121628C 26	**13-756-592**	60/227.00
32 oz. (1000mL)	33mm-400	5123233C 26	**13-756-593**	12/61.20

ON THE WEB...

Looking for more bottle sizes?

Visit www.fishersci.com and search for Kimble-Chase Amber Boston Rounds

With Taperseal Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs				
1 oz. (30mL)	20mm-400	5120120V 25	**13-756-570**	48/188.10
2 oz. (60mL)	20mm-400	5120220V 25	**13-756-571**	24/175.60
4 oz. (125mL)	22mm-400	5120422V 25	**13-756-572**	24/117.80
8 oz. (250mL)	24mm-400	5120824V 25	**13-756-573**	12/76.80
16 oz. (500mL)	28mm-400	5121628V 25	**13-756-574**	12/81.80
32 oz. (1000mL)	33mm-400	5123233V 25	**13-756-575**	12/174.70
Bulk Packs				
2 oz. (60mL)	20mm-400	5120220C 25	**13-756-577**	288/964.00
4 oz. (125mL)	22mm-400	5120422C 25	**13-756-578**	160/561.00
8 oz. (250mL)	24mm-400	5120824C 25	**13-756-579**	108/546.31
16 oz. (500mL)	28mm-400	5121628C 25	**13-756-580**	60/310.98
32 oz. (1000mL)	33mm-400	5123233C 25	**13-756-581**	12/58.50

With 14B White Rubber-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs				
2 oz. (60mL)	20mm-400	5120220C 24	**13-756-565**	288/441.00
4 oz. (125mL)	22mm-400	5120422C 24	**13-756-566**	160/294.69
32 oz. (1000mL)	33mm-400	5123233C 24	**13-756-569**	12/56.73

Glass - French Squares

Fisherbrand® Clear French Squares

Square shape maximizes storage space in the lab

- Type III soda-lime glass for easy viewing of contents
- Wide mouth for easy filling

02-912-017, 02-911-383, 02-911-887

With Poly-Seal™-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	20mm-400	**02-911-402**	48/121.75
1 oz. (30mL)	24mm-400	**02-911-403**	48/128.80
2 oz. (60mL)	28mm-400	**02-911-404**	48/147.00
4 oz. (125mL)	33mm-400	**02-911-405**	24/68.40
4 oz. (125mL)	33mm-400	**02-911-875**	120/378.00

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	20mm-400	**02-911-379**	48/133.92
0.5 oz. (15mL)	20mm-400	**02-912-302**	576/414.00
1 oz. (30mL)	24mm-400	**02-911-380**	48/141.72
1 oz. (30mL)	24mm-400	**02-911-397**	280/928.00
2 oz. (60mL)	28mm-400	**02-911-381**	48/162.39
2 oz. (60mL)	28mm-400	**02-911-398**	240/514.50
4 oz. (125mL)	33mm-400	**02-911-382**	24/101.53
4 oz. (125mL)	33mm-400	**02-911-399**	120/308.46
8 oz. (250mL)	43mm-400	**02-911-383**	24/122.74
8 oz. (250mL)	43mm-400	**02-911-400**	84/285.46
16 oz. (500mL)	48mm-400	**02-911-401**	40/196.95
16 oz. (500mL)	48mm-400	**02-911-384**	24/162.63
32 oz. (1000mL)	58mm-400	**02-912-017**	12/155.80

With PTFE-Faced, PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	20mm-400	**02-911-385**	48/167.37
1 oz. (30mL)	24mm-400	**02-911-386**	48/196.36
2 oz. (60mL)	28mm-400	**02-911-387**	48/221.01
4 oz. (125mL)	33mm-400	**02-911-388**	24/130.41
8 oz. (250mL)	43mm-400	**02-911-389**	24/184.51
16 oz. (500mL)	48mm-400	**02-911-390**	24/226.13
32 oz. (1000mL)	58mm-400	**02-912-016**	12/223.50

With Rubber-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	20mm-400	**02-911-391**	48/144.45
1 oz. (30mL)	24mm-400	**02-911-392**	48/146.79
2 oz. (60mL)	28mm-400	**02-911-393**	48/169.19
4 oz. (125mL)	33mm-400	**02-911-394**	24/108.58
8 oz. (250mL)	43mm-400	**02-911-395**	24/127.10
16 oz. (500mL)	48mm-400	**02-911-396**	24/190.39
32 oz. (1000mL)	58mm-400	**02-912-300**	12/120.90

Bottles Only (Without Caps)

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	20mm-400	**02-912-301**	576/317.50
1 oz. (30mL)	24mm-400	**02-911-946**	280/293.50
2 oz. (60mL)	28mm-400	**02-911-947**	240/282.00
4 oz. (125mL)	33mm-400	**02-911-887**	120/263.43
8 oz. (250mL)	43mm-400	**02-912-297**	84/180.50
16 oz. (500mL)	48mm-400	**02-911-877**	40/112.20
32 oz. (1000mL)	58mm-400	**02-911-884**	24/116.50

Fisherbrand® Clear Glass Tablet Squares

Packed with caps attached

- Clear, USP Type III soda-lime glass
- Available in capacities of 1 oz. and 2 oz. and screw cap size of 33mm-400

02-912-296

Capacity	Screw Cap Size	Cat. No.	Case of
With PE Cone caps			
1 oz. (30mL)	33mm-400	**02-911-993**	288/453.00
2 oz. (60mL)	33mm-400	**02-912-308**	144/132.80
With Polyvinyl-lined Caps			
1 oz. (30mL)	33mm-400	**02-911-881**	288/391.00
With PTFE-faced, PE-lined Caps			
2 oz. (60mL)	33mm-400	**02-911-994**	288/478.50
2 oz. (60mL)	33mm-400	**02-911-995**	144/284.00
Bottles Only			
2 oz. (60mL)	33mm-400	**02-912-296**	144/113.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble™ Clear Glass French Squares

- Wide mouth design for efficient addition or removal of contents

13-756 Series

With PTFE-Faced LDPE Foam-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
0.5 oz. (15mL)	20mm-400	5611220V26	**13-756-356**	48/240.00
1 oz. (30mL)	24mm-400	5610124V26	**13-756-357**	48/234.50
2 oz. (60mL)	28mm-400	5610228V26	**13-756-358**	48/248.00
4 oz. (125mL)	33mm-400	5610433V26	**13-756-359**	24/138.60
8 oz. (250mL)	43mm-400	5610843V26	**13-756-360**	24/232.00
16 oz. (500mL)	48mm-400	5611648V26	**13-756-361**	24/305.50

With Pulp/Vinyl-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
0.5 oz. (15mL)	20mm-400	5611220V21	**13-756-300**	48/198.10
1 oz. (30mL)	24mm-400	5610124V21	**13-756-301**	48/245.84
2 oz. (60mL)	28mm-400	5610228V21	**13-756-302**	48/173.40
4 oz. (125mL)	33mm-400	5610433V21	**13-756-303**	24/109.60
8 oz. (250mL)	43mm-400	5610843V21	**13-756-304**	24/133.90
16 oz. (500mL)	48mm-400	5611648V21	**13-756-305**	24/189.60
Bulk Packs (caps in bags)				
1 oz. (30mL)	24mm-400	5610124C21	**13-756-307**	280/632.50
2 oz. (60mL)	28mm-400	5610228C21	**13-756-308**	240/585.18
4 oz. (125mL)	33mm-400	5610433C21	**13-756-309**	120/379.27
8 oz. (250mL)	43mm-400	5610843C21	**13-756-310**	84/237.50

With Solid PE-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
8 oz. (250mL)	43mm-400	5610843V22	**13-756-316**	24/180.50
16 oz. (500mL)	48mm-400	5611648V22	**13-756-317**	24/218.50
Bulk Packs (caps in bags)				
1 oz. (30mL)	24mm-400	5610124C22	**13-756-319**	280/358.50
2 oz. (60mL)	28mm-400	5610228C22	**13-756-320**	240/408.00
4 oz. (125mL)	33mm-400	5610433C22	**13-756-321**	120/301.00
8 oz. (250mL)	43mm-400	5610843C22	**13-756-322**	84/211.17
16 oz. (500mL)	48mm-400	5611648C22	**13-756-323**	40/133.30

ON THE WEB...

Looking for more glass French squares?

Visit www.fishersci.com and search for Qorpak

With Taperseal Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
0.5 oz. (15mL)	20mm-400	5611220V25	**13-756-348**	48/128.10
1 oz. (30mL)	24mm-400	5610124V25	**13-756-349**	48/181.80
2 oz. (60mL)	28mm-400	5610228V25	**13-756-350**	48/144.80
4 oz. (125mL)	33mm-400	5610433V25	**13-756-351**	24/85.40
Bulk Packs (caps in bags)				
0.5 oz. (15mL)	20mm-400	5611220C25	**13-756-352**	576/741.20
1 oz. (30mL)	24mm-400	5610124C25	**13-756-353**	280/371.50
2 oz. (60mL)	28mm-400	5610228C25	**13-756-354**	240/455.00
4 oz. (125mL)	33mm-400	5610433C25	**13-756-355**	120/337.50

With 14B White Rubber-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs (caps in bags)				
1 oz. (30mL)	24mm-400	5610124C24	**13-756-343**	280/365.08
2 oz. (60mL)	28mm-400	5610228C24	**13-756-344**	240/406.58
16 oz. (500mL)	48mm-400	5611648C24	**13-756-347**	40/121.12

Bottles Only

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs				
0.5 oz. (15mL)	20mm-400	5611220B	**13-756-368**	576/544.00
1 oz. (30mL)	24mm-400	5610124B	**13-756-369**	280/436.50
2 oz. (60mL)	28mm-400	5610228B	**13-756-370**	240/338.50
4 oz. (125mL)	33mm-400	5610433B	**13-756-371**	120/467.50
8 oz. (250mL)	43mm-400	5610843B	**13-756-372**	84/250.00
16 oz. (500mL)	48mm-400	5611648B	**13-756-373**	40/149.00

Kimble-Chase Clear Glass Square Tablet Bottles

Wide-mouth design

- Clear glass for easy viewing of contents
- Black phenolic caps
- Type III soda lime glass

NOTES:
Packed in corrugated cartons with divider cells (caps bagged).

13-757-210

Caps with	Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Pulp/Vinyl	1 oz. (30mL)	33mm-400	5910133C21	**13-757-210**	288/487.50

Glass - Graduated Medium Rounds

Fisherbrand® Graduated Valumetric™ Bottles

Store a variety of liquids and solids — dry powders, specimens and soil samples

- Printed graduations show milliliters and fluid ounces
- Clear, USP Type III soda-lime glass for easy viewing of contents
- Wide mouth for easy filling

02-911-456

With Poly-Seal™-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	33mm-400	**02-911-463**	48/105.00
1 oz. (30mL)	33mm-400	**02-911-470**	432/997.50
2 oz. (60mL)	38mm-400	**02-911-464**	48/119.50
2 oz. (60mL)	38mm-400	**02-911-471**	288/842.01

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	33mm-400	**02-911-453**	48/131.76
1 oz. (30mL)	33mm-400	**02-911-465**	432/1141.83
2 oz. (60mL)	38mm-400	**02-911-454**	48/144.30
2 oz. (60mL)	38mm-400	**02-911-466**	288/1378.12
4 oz. (125mL)	48mm-400	**02-911-455**	24/89.40
4 oz. (125mL)	48mm-400	**02-911-467**	144/564.28
8 oz. (250mL)	58mm-400	**02-911-456**	24/111.90
8 oz. (250mL)	58mm-400	**02-911-468**	96/576.50
16 oz. (500mL)	70mm-400	**02-911-457**	24/161.60
16 oz. (500mL)	70mm-400	**02-911-469**	48/363.50

With PTFE-Faced, PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	33mm-400	**02-911-458**	48/180.25
2 oz. (60mL)	38mm-400	**02-911-459**	48/242.00
4 oz. (125mL)	48mm-400	**02-911-460**	24/168.81
8 oz. (250mL)	58mm-400	**02-911-461**	24/204.50
16 oz. (500mL)	70mm-400	**02-911-462**	24/260.00

With Rubber-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	33mm-400	**02-911-473**	48/142.70
2 oz. (60mL)	38mm-400	**02-911-474**	48/146.83
4 oz. (125mL)	48mm-400	**02-911-475**	24/108.97
8 oz. (250mL)	58mm-400	**02-911-476**	24/129.22
16 oz. (500mL)	70mm-400	**02-912-303**	24/140.79

With Foil-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	33mm-400	**02-911-923**	48/114.70
2 oz. (60mL)	38mm-400	**02-911-924**	48/132.88
4 oz. (125mL)	48mm-400	**02-911-925**	24/101.21
8 oz. (250mL)	58mm-400	**02-911-926**	24/108.00
16 oz. (500mL)	70mm-400	**02-911-911**	24/156.60

Bottles Only (Without Closures)

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	33mm-400	**02-911-941**	432/432.50
2 oz. (60mL)	38mm-400	**02-912-255**	288/359.50
4 oz. (125mL)	48mm-400	**02-912-256**	144/202.00
8 oz. (250mL)	58mm-400	**02-912-257**	96/172.30
16 oz. (500mL)	70mm-400	**02-912-119**	48/119.00

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Prices subject to change.

Glass - Jars

Fisherbrand® Clear Glass Testing Jars

Available with caps and as jar only

- Clear, USP Type III soda-lime glass
- Capacity: 2 oz.
- Screw cap size: 43mm-400

02-911-883

Capacity	Screw Cap Size	Cat. No.	Case of 180
With Polyvinyl-lined Caps			
2 oz. (60mL)	43mm-400	**02-911-883**	674.21
With PTFE-faced, PE-lined Caps			
2 oz. (60mL)	43mm-400	**02-911-964**	463.00
Jars Only			
2 oz. (60mL)	43mm-400	**02-912-116**	131.60

Fisherbrand® Amber Straight-Sided Jars

For light-sensitive soil samples and environmental applications

- Type III soda-lime glass
- Straight sides allow for complete removal of contents
- Wide mouth for easy filling

02-911-859, 02-912-045

Capacity	Screw Cap Size	Cat. No.	Case of
With PTFE-faced PE-lined Caps			
4 oz. (125mL)	58mm-400	**02-912-045**	24/112.63
8 oz. (250mL)	70mm-400	**02-911-859**	12/84.43
Jars Only			
4 oz. (125mL)	58mm-400	**02-912-298**	24/47.10

Fisherbrand® Safety Coated Straight-Sided Jars

Available with polyvinyl-lined and PTFE-faced PE-lined caps

- Type III clear soda-lime glass with attached caps

02-911-824

Capacity	Screw Cap Size	Cat. No.	Case of 12
With Polyvinyl-Lined Caps			
8 oz. (250mL)	70mm-400	**02-911-825**	84.90
16 oz. (500mL)	70mm-400	**02-911-824**	216.50
32 oz. (1000mL)	70mm-400	**02-911-867**	265.52
With PTFE-Faced PE-Lined Caps			
8 oz. (250mL)	70mm-400	**02-911-827**	233.23
16 oz. (500mL)	70mm-400	**02-911-868**	282.50
32 oz. (1000mL)	70mm-400	**02-911-721**	176.90

Fisherbrand® Clear Straight-Sided Jars

Premium quality and outstanding value

- Type III clear soda-lime glass for easy viewing of contents
- Straight sides allow for complete removal of contents
- Wide mouth for easy filling

02-912-345

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	43mm-400	**02-911-920**	48/174.97
2 oz. (60mL)	53mm-400	**02-911-773**	24/85.49
4 oz. (125mL)	58mm-400	**02-911-775**	24/93.44
8 oz. (250mL)	70mm-400	**02-911-776**	12/77.36
16 oz. (500mL)	89mm-400	**02-911-772**	12/90.52
32 oz. (1000mL)	89mm-400	**02-911-774**	12/113.42

With PTFE-Faced, PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	43mm-400	**02-911-912**	48/246.06
1 oz. (30mL)	43mm-400	**02-912-306**	384/1094.00
2 oz. (60mL)	53mm-400	**02-911-763**	24/148.13
2 oz. (60mL)	53mm-400	**02-911-791**	144/466.00
4 oz. (125mL)	58mm-400	**02-911-764**	24/165.05
8 oz. (250mL)	70mm-400	**02-911-765**	12/151.47
16 oz. (500mL)	89mm-400	**02-911-761**	12/175.38
32 oz. (1000mL)	89mm-400	**02-911-762**	12/198.32

With Rubber-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of 24
4 oz. (125mL)	58-400mm	**02-912-345**	105.80

Bottles Only (Without Closures)

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	43mm-400	**02-912-304**	384/232.50
2 oz. (60mL)	53mm-400	**02-911-996**	144/178.65
4 oz. (125mL)	58mm-400	**02-911-997**	24/34.75
8 oz. (250mL)	70mm-400	**02-911-876**	12/23.80
16 oz. (500mL)	89mm-400	**02-912-118**	12/47.65
32 oz. (1000mL)	89mm-400	**02-912-305**	12/57.90

Kimble-Chase Clear Glass Straight-Sided Jars

Wide-mouth design for efficient addition and removal of contents

NOTES:
All 32-ounce jars are packed in corrugated cartons with divider cells.

13-756 Series

With PTFE-Faced LDPE Foam-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
2 oz. (60mL)	53mm-400	5410253V 26	**13-756-770**	24/212.00
4 oz. (125mL)	58mm-400	5410458V 26	**13-756-771**	24/197.00
6 oz. (180mL)	63mm-400	5410663V 26	**13-756-772**	12/176.60
8 oz. (250mL)	70mm-400	5410870V 26	**13-756-773**	12/357.50
16 oz. (500mL)	89mm-400	5411689V 26	**13-756-774**	12/215.50
32 oz. (1000mL)	89mm-400	5413289V 26	**13-756-775**	12/344.00
Bulk Packs (caps in bags)				
2 oz. (60mL)	53mm-400	5410253C 26	**13-756-776**	216/1125.00
4 oz. (125mL)	58mm-400	5410458C 26	**13-756-777**	144/349.50
6 oz. (180mL)	63mm-400	5410663C 26	**13-756-778**	24/79.80
8 oz. (250mL)	70mm-400	5410870C 26	**13-756-779**	24/124.20
16 oz. (500mL)	89mm-400	5411689C 26	**13-756-780**	12/75.50
32 oz. (1000mL)	89mm-400	5413289C 26	**13-756-781**	12/82.10

With Pulp/Vinyl-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
2 oz. (60mL)	53mm-400	5410253V 21	**13-756-722**	24/97.00
4 oz. (125mL)	58mm-400	5410458V 21	**13-756-723**	24/100.60
6 oz. (180mL)	63mm-400	5410663V 21	**13-756-724**	12/97.90
8 oz. (250mL)	70mm-400	5410870V 21	**13-756-725**	12/174.80
16 oz. (500mL)	89mm-400	5411689V 21	**13-756-726**	12/127.00
32 oz. (1000mL)	89mm-400	5413289V 21	**13-756-727**	12/170.20
Bulk Packs (caps in bags)				
2 oz. (60mL)	53mm-400	5410253C 21	**13-756-728**	216/387.00
4 oz. (125mL)	58mm-400	5410458C 21	**13-756-729**	144/266.50
6 oz. (180mL)	63mm-400	5410663C 21	**13-756-730**	24/54.50
8 oz. (250mL)	70mm-400	5410870C 21	**13-756-731**	24/101.90
16 oz. (500mL)	89mm-400	5411689C 21	**13-756-732**	12/59.90
32 oz. (1000mL)	89mm-400	5413289C 21	**13-756-733**	12/68.50

With Tinfoil-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs (caps in bags)				
2 oz. (60mL)	53mm-400	5410253C 23	**13-756-752**	216/382.94
4 oz. (125mL)	58mm-400	5410458C 23	**13-756-753**	144/316.00
6 oz. (180mL)	63mm-400	5410663C 23	**13-756-754**	24/55.20
8 oz. (250mL)	70mm-400	5410870C 23	**13-756-755**	24/62.10

Bottles Only

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Bulk Packs				
2 oz. (60mL)	53mm-400	5410253B	**13-756-782**	216/307.50
4 oz. (125mL)	58mm-400	5410458B	**13-756-783**	144/329.50
6 oz. (180mL)	63mm-400	5410663B	**13-756-784**	24/37.20
8 oz. (250mL)	70mm-400	5410870B	**13-756-785**	24/106.50
16 oz. (500mL)	89mm-400	5411689B	**13-756-786**	12/174.50
32 oz. (1000mL)	89mm-400	5413289B	**13-756-787**	12/33.45

With 14B White Rubber-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
2 oz. (60mL)	53mm-400	5410253V 24	**13-756-758**	24/97.50
4 oz. (125mL)	58mm-400	5410458V 24	**13-756-759**	24/119.50
Bulk Packs (caps in bags)				
4 oz. (125mL)	58mm-400	5410458C 24	**13-756-765**	144/331.50
6 oz. (180mL)	63mm-400	5410663C 24	**13-756-766**	24/66.70
8 oz. (250mL)	70mm-400	5410870C 24	**13-756-767**	24/169.33
16 oz. (500mL)	89mm-400	5411689C 24	**13-756-768**	12/76.70
32 oz. (1000mL)	89mm-400	5413289C 24	**13-756-769**	12/86.70

With Solid PE-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Packs (caps attached)				
2 oz. (60mL)	53mm-400	5410253V 22	**13-756-734**	24/155.80
4 oz. (125mL)	58mm-400	5410458V 22	**13-756-735**	24/169.40
6 oz. (180mL)	63mm-400	5410663V 22	**13-756-736**	12/113.30
8 oz. (250mL)	70mm-400	5410870V 22	**13-756-737**	12/116.80
16 oz. (500mL)	89mm-400	5411689V 22	**13-756-738**	12/169.10
32 oz. (1000mL)	89mm-400	5413289V 22	**13-756-739**	12/190.20
Bulk Packs (caps in bags)				
8 oz. (250mL)	70mm-400	5410870C 22	**13-756-743**	24/71.40
16 oz. (500mL)	89mm-400	5411689C 22	**13-756-744**	12/61.20
32 oz. (1000mL)	89mm-400	5413289C 22	**13-756-745**	12/68.50

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Wheaton™ Clear Straight-Sided Jars with Polyvinyl-Lined Caps

Ideal for soil sampling and environmental applications

02-911-407, -410, -408

Excellent for storage of dry materials and specimens, visible through clear Type III soda-lime glass.

- Wide mouths provide easy access to contents when using spoons or spatulas
- Chemical-resistant caps conform to EPA and FDA regulations
- Available in partitioned Convenience or Valu-Bulk™ cartons

ORDERING INFORMATION:
Caps can be ordered separately.

COMPLIANCE:
Clear-USP Type III soda-lime glass

NOTES:
Each case of convenience pack bottles includes hazard communication labels for proper content identification and tamper evident labels to protect sample integrity in transit or long-term storage.

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Convenience Pack				
2 oz. (60mL)	53mm-400	W216903	**02-911-406**	24/112.10
4 oz. (120mL)	58mm-400	W216904	**02-911-407**	24/122.20
8 oz. (250mL)	70mm-400	W216905	**02-911-408**	12/101.10
16 oz. (500mL)	89mm-400	W216906	**02-911-409**	12/118.40
32 oz. (1000mL)	89mm-400	W216907	**02-911-410**	12/146.50
Valu-Bulk Pack				
2 oz. (60mL)	53mm-400	W216914	**02-911-417**	144/823.00
4 oz. (120mL)	58mm-400	W216915	**02-911-418**	24/241.00
8 oz. (250mL)	70mm-400	W216916	**02-911-419**	24/227.00
16 oz. (500mL)	89mm-400	W216917	**02-911-420**	12/98.80
32 oz. (946mL)	89mm-400	W216918	**02-911-421**	12/108.90

With TFE-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
2 oz. (60mL)	53mm-400	W216908	**02-911-411**	24/194.10
4 oz. (120mL)	58mm-400	W216909	**02-911-412**	24/216.00
8 oz. (240mL)	70mm-400	W216910	**02-911-413**	12/198.20
16 oz. (473mL)	89mm-400	W216911	**02-911-414**	12/230.50
32 oz. (946mL)	89mm-400	W216912	**02-911-415**	12/260.00

With 14B White Rubber-Lined Caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
4 oz. (125mL)	58mm-400	W216913	**02-911-416**	24/135.20

Glass - Jugs

Fisherbrand® Clear Glass Jugs

Sample visibility and premium quality

- Type III soda-lime glass
- Narrow mouth enables careful pouring and prevents spillage
- 38mm-400 screw caps attached

02-912-307

Capacity	Cap Lining	Cat. No.	Case of
64 oz. (2000mL)	PE Cone	**02-912-307**	6/62.90
130 oz. (3840mL)	PE Cone	**02-912-272**	4/61.40
64 oz. (2000mL)	Polyvinyl	**02-912-279**	6/119.33
130 oz. (3840mL)	Polyvinyl	**02-912-273**	4/88.79
64 oz. (2000mL)	PTFE-faced polyethylene	**02-912-280**	6/83.28
130 oz. (3840mL)	PTFE-faced polyethylene	**02-912-278**	4/79.82
64 oz. (2000mL)	Rubber	**02-912-275**	6/48.70
130 oz. (3840mL)	Rubber	**02-912-274**	4/42.40

Fisherbrand® Amber Glass Jugs

Protect light-sensitive materials at an economical cost

- Amber Type III soda-lime glass
- Narrow mouth enables careful pouring and prevents spillage
- 38mm-400 screw caps attached

02-912-271

Capacity	Cap Lining	Cat. No.	Case of
130 oz. (3840mL)	PE Cone	**02-911-862**	4/55.90
130 oz. (3840mL)	Polyvinyl	**02-912-277**	4/83.50
80 oz. (2365mL)	PTFE-faced polyethylene	**02-912-271**	6/85.20
130 oz. (3840mL)	PTFE-faced polyethylene	**02-912-276**	4/85.35
130 oz. (3840mL)	Rubber	**02-912-270**	4/40.20

Glass - Narrow Mouths

Kimax™ Solution Bottles

With sloping shoulders and tooled necks for uniform fit with No. 12 rubber stoppers

COMPLIANCE:
Five-gallon size is designed in accordance with Fed. Spec. DD-B-597.

03-422-12

Capacity	Mfr. No.	Cat. No.	Each
2.5 gal. (9.5L)	14950 25	**10-310-16**	201.00
3.5 gal. (13.25L)	14950 35	**10-310-17**	257.40
5 gal. (19L)	14950 500	**03-422-12**	388.72
12 gal. (45.5L)	14950 120	**03-422-12A**	885.00

Kimax™ Glass Sampling Bottle

Square cross-section

- Particularly useful for water sampling, milk dilutions and tissue culture work
- Autoclavable, black phenolic, rubber-lined caps included

02-945-10

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of 48
6.8 oz. (200mL)	28mm-400	14250 200	**02-945-10**	225.50

Wheaton™ Plastic-Coated Glass Safety Bottles

Retain contents and most glass fragments for safer and easier disposal

- PVC coated
- Coating is inert and highly resistant to strong acids, alkalis and most solvents
- Coating reduces risk of personal injury or contamination
- Black, foil-lined caps included
- Screw cap size: 38mm-430
- Not autoclavable

COMPLIANCE:
Helps meet OSHA requirements for safe handling and disposal of toxic or noxious substances.

03-439-50A

Capacity	Glass	Mfr. No.	Cat. No.	Each	Case of
80 oz. (2.3L)	Clear Soda-Lime	220738	**03-439-50A**	22.00	6/109.10
1 gal. (3.8L)	Amber Soda-Lime	220939	**03-439-50B**	31.75	4/105.40

Pyrex™ Brand Large-Capacity Bottles

For distilled water and solutions

- 2.5, 3.5-gallon sizes are conventional bottle shape
- Five and 12 gallon sizes are similar to carboys
- Necks are tooled to increase mechanical strength and for uniform stopper fit
- Nonsterile
- Withstand hot air (dry) or steam (wet) sterilization

ORDERING INFORMATION:
Bottles take No. 12 size stoppers (not included).

Pyrex Brand Large Capacity Bottles

Capacity	Mfr. No.	Cat. No.	Each	Case of
Ungraduated				
2.5 gal. (9.5L)	1595 2X	**02-887A**	299.50	4/866.50
3.5 gal. (13.25L)	1595 3X	**02-887B**	386.00	4/1115.00
Graduated				
2.5 gal. (9.5L)	1596 9L	**02-887-1**	332.50	4/954.50
3.5 gal. (13.25L)	1596 13L	**02-887-3**	402.00	4/1162.00

ON THE WEB...

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Glass - Wide Mouths

Fisherbrand® Clear Standard Wide-Mouth Bottles

Good for storing dry materials and specimens

- Wide mouth for easy entry and retrieval during storage and packaging applications
- Commonly used for liquid and dry storage and packaging applications
- Excellent choice for general reservoir requirements
- Type III soda-lime glass
- Clear for easy viewing of contents

02-912-114

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	48mm-400	**02-911-731**	24/88.59
8 oz. (250mL)	58mm-400	**02-911-916**	24/111.83
16 oz. (500mL)	63mm-400	**02-911-917**	24/128.90
64 oz. (2000mL)	83mm-400	**02-911-891**	6/89.45
129 oz. (3810mL)	89mm-400	**02-911-918**	4/82.37

With PTFE-Faced PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	48mm-400	**02-911-768**	24/92.30
8 oz. (250mL)	58mm-400	**02-911-770**	24/109.25
16 oz. (500mL)	63mm-400	**02-911-767**	24/133.40
32 oz. (1000mL)	70mm-400	**02-911-913**	12/104.90
64 oz. (2000mL)	83mm-400	**02-911-769**	6/89.95
129 oz. (3810mL)	89mm-400	**02-911-766**	4/84.09

Bottles Only (Without Caps)

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	48mm-400	**02-911-942**	24/32.00
8 oz. (250mL)	58mm-400	**02-911-943**	24/42.00
16 oz. (500mL)	63mm-400	**02-911-871**	24/77.10
32 oz. (1000mL)	70mm-400	**02-912-114**	12/46.40
64 oz. (2000mL)	83mm-400	**02-911-869**	6/50.50
129 oz. (3810mL)	89mm-400	**02-912-117**	4/42.25

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Fisherbrand® Amber Wide-Mouth Packers

- Value-priced bottles ideal for storing dry materials
- Amber glass for light-sensitive powders
- Wide mouth for easy filling and for complete removal of contents

02-911-937

With PE Cone Caps

Capacity	Screw Cap Size	Cat. No.	Case of 24
1 oz. (30mL)	28mm-400	**02-911-444**	55.57
2 oz. (60mL)	33mm-400	**02-911-445**	70.27
4 oz. (125mL)	38mm-400	**02-911-446**	73.00

With Polyvinyl-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
0.20 oz. (6mL)	20mm-400	**02-911-852**	720/1469.23
0.27 oz. (8mL)	20mm-400	**02-911-857**	912/1737.00
0.5 oz. (15mL)	28mm-400	**02-911-799**	624/1827.29
1 oz. (30mL)	28mm-400	**02-911-432**	24/50.71
1 oz. (30mL)	28mm-400	**02-911-447**	432/769.39
2 oz. (60mL)	33mm-400	**02-911-433**	24/76.48
2 oz. (60mL)	33mm-400	**02-911-448**	216/477.25
4 oz. (125mL)	38mm-400	**02-911-434**	24/88.85
4 oz. (125mL)	38mm-400	**02-911-449**	180/441.98
8 oz. (250mL)	45mm-400	**02-911-435**	24/122.57
8 oz. (250mL)	45mm-400	**02-911-450**	84/486.50
16 oz. (500mL)	53mm-400	**02-911-436**	12/74.78
16 oz. (500mL)	53mm-400	**02-911-451**	60/234.33
32 oz. (1000mL)	53mm-400	**02-911-437**	12/104.60
32 oz. (1000mL)	53mm-400	**02-911-452**	36/207.00

With PTFE-Faced PE-Lined Closures

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	28mm-400	**02-911-438**	24/88.84
2 oz. (60mL)	33mm-400	**02-911-439**	24/104.87
4 oz. (125mL)	38mm-400	**02-911-440**	24/126.33
8 oz. (250mL)	45mm-400	**02-911-441**	24/167.86
16 oz. (500mL)	53mm-400	**02-911-442**	12/110.30
32 oz. (1000mL)	53mm-400	**02-911-443**	12/140.70
42 oz. (1250mL)	70mm-400	**02-911-796**	6/111.69
85 oz. (2500mL)	70mm-400	**02-911-854**	12/438.39

Bottles Only (Without Caps)

Capacity	Screw Cap Size	Cat. No.	Case of
0.5 oz. (15mL)	28mm-400	**02-911-798**	624/1428.00
1 oz. (30mL)	28mm-400	**02-911-935**	432/288.00
2 oz. (60mL)	33mm-400	**02-911-936**	216/249.00
4 oz. (125mL)	38mm-400	**02-911-888**	180/337.00
8 oz. (250mL)	45mm-400	**02-911-938**	84/142.80
16 oz. (500mL)	53mm-400	**02-911-934**	60/147.70
32 oz. (1000mL)	53mm-400	**02-911-937**	36/129.90

Fisherbrand® Safety-Coated Amber Wide-Mouth Packers

For field sampling applications

Amber Type III soda-lime glass.

- Shatter-resistant coating reduces chance of breakage
- If broken, safety coating contains contents long enough for disposal
- Nonslip coating also allows greater ease of stability when wet or dry
- Not autoclavable

Capacity	Screw Cap Size	Cat. No.	Case of
With Polyvinyl-Lined Caps			
8 oz. (250mL)	45mm-400	**02-911-832**	24/317.50
16 oz. (500mL)	53mm-400	**02-911-828**	12/136.10
32 oz. (1000mL)	53mm-400	**02-911-829**	12/176.00
With PTFE-Faced PE-Lined Caps			
8 oz. (250mL)	45mm-400	**02-911-863**	24/216.00
16 oz. (500mL)	53mm-400	**02-911-830**	12/166.26
32 oz. (1000mL)	53mm-400	**02-911-831**	12/218.44
Bottles Only			
8 oz. (250mL)	45mm-400	**02-912-317**	24/121.50
16 oz. (500mL)	53mm-400	**02-911-906**	12/88.60
32 oz. (1000mL)	53mm-400	**02-911-907**	12/101.80

02-911-829, -906, -917

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Looking for More Amber Wide Mouth Packers?

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Plastic - Boston Rounds

Fisherbrand® LDPE Boston Rounds

- Constructed of low-density polyethylene
- Natural color
- PE cone caps included

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	18mm-410	**02-912-015**	48/81.80
2 oz. (60mL)	18mm-410	**02-911-965**	48/95.00
4 oz. (125mL)	24mm-410	**02-911-966**	48/124.30
8 oz. (250mL)	24mm-410	**02-911-967**	48/217.50
16 oz. (500mL)	28mm-400	**02-911-909**	24/109.70
32 oz. (1000mL)	38mm-430	**02-911-873**	24/226.12

02-911 Series

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Prices subject to change.

Thermo Scientific™ Nalgene™ Lab Quality Narrow-Mouth Bottles; HDPE, PP Screw Closure

Specifically designed for demanding lab use

- Excellent chemical resistance to most corrosives make these bottles versatile and indispensable in your lab
- Ideal for storing, shipping and packaging liquids
- Uniform walls provide durability and resistance to splitting or punctures
- Can be used in a freezer up to -100°C (-149°F)
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Leakproof†

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements

02-923 Series

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
0.125 oz. (4mL)	13mm	2002-9125	**02-923-6A**	12/15.10	6 Pk./58.30
0.25 oz. (8mL)	20mm	2002-9025	**02-923-11A**	12/15.38	6 Pk./59.50
0.5 oz. (15mL)	20mm	2002-9050	**02-923-8A**	12/16.99	6 Pk./65.70
1 oz. (30mL)	20mm	2002-0001	**02-923A**	12/22.75	6 Pk./87.70
2 oz. (60mL)	20mm	2002-0002	**02-923B**	12/23.45	6 Pk./90.50
4 oz. (125mL)	24mm	2002-0004	**02-923C**	12/30.05	6 Pk./116.00
6 oz. (175mL)	24mm	2002-0006	**02-923CC**	12/41.55	6 Pk./164.44
8 oz. (250mL)	24mm	2002-0008	**02-923D**	12/42.75	6 Pk./164.80
16 oz. (500mL)	28mm	2002-0016	**02-923E**	12/60.40	4 Pk./155.30
16 oz. (500mL)	38-430mm	2002-9016	**02-923-11F**	12/92.50	4 Pk./239.00
32 oz. (1000mL)	38-430mm	2002-0032	**02-923F**	6/53.20	4 Pk./140.40

Bulk Pack

Capacity	Neck Finish	Mfr. No.	Cat. No.	Case of
1 oz. (30mL)	20mm	312002-0001	**03-313-78A**	1000/948.50
2 oz. (60mL)	20mm	312002-0002	**03-313-78B**	1000/988.00
4 oz. (125mL)	24mm	312002-0004	**03-313-78C**	500/640.50
6 oz. (175mL)	24mm	312002-0006	**03-313-78D**	250/446.60
8 oz. (250mL)	24mm	312002-0008	**03-313-78E**	250/461.00
16 oz. (500mL)	28mm	312002-0016	**03-313-78F**	125/328.00
32 oz. (1000mL)	38-430mm	312002-0032	**03-313-78H**	50/218.80

WARNING

Nalgene™ LDPE, HDPE, PP, and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Thermo Scientific™ Nalgene™ Autoclavable Narrow-Mouth Bottles; PPCO, PP Screw Closures

Ideal for lab applications requiring excellent chemical resistance and autoclaving with and without contents

- Provide excellent chemical resistance for a variety of lab applications
- Versatile — can autoclave with and without contents for repeated use in the lab
- Translucence provides good clarity for viewing contents
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Autoclavable/Leakproof†

NOTES:
Completely disengage threads or remove cap before autoclaving.

02-923 and 02-925 Series

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
0.125 oz. (4mL)	13mm	2006-9125	**02-923-11E**	12/19.85	6 Pk./77.41
0.25 oz. (8mL)	20mm	2006-9025	**02-923-11D**	12/20.95	6 Pk./83.70
0.5 oz. (15mL)	20mm	2006-9050	**02-923-8G**	12/21.85	6 Pk./87.20
1 oz. (30mL)	20mm	2006-0001	**02-925A**	72/116.50	----
2 oz. (60mL)	20mm	2006 0002	**02-925B**	12/30.60	6 Pk./116.30
4 oz. (125mL)	24mm	2006-0004	**02-925C**	12/39.45	6 Pk./157.50
8 oz. (250mL)	24mm	2006-0008	**02-925D**	12/60.50	6 Pk./230.50
16 oz. (500mL)	28mm	2006-0016	**02-925E**	12/91.30	4 Pk./232.00
32 oz. (1000mL)	38-430mm	2006-0032	**02-925F**	6/73.10	4 Pk./185.40

†The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Thermo Scientific™ Nalgene™ Narrow-Mouth Boston Round Bottles

02-923 and 03-313 Series

Designed for demanding lab use

- Opaque amber HDPE narrow mouth bottles with opaque amber polypropylene closure
- Uniform walls are resistant to splitting or puncturing
- Linerless caps included
- Bulk-packed for packaging applications
- Complies with USP requirements of light resistant containers
- Leakproof†

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
1 oz. (30mL)	20mm	312004-0001	**02-923-274**	1000/1478.00
2 oz. (60mL)	20mm	312004-0002	**02-923-275**	1000/1541.00
4 oz. (125mL)	24mm	312004-0004	**03-313-56**	500/989.00
8 oz. (250mL)	24mm	312004-0008	**03-313-60**	250/665.00
16 oz. (500mL)	28mm	312004-0016	**02-923-55**	125/494.00
32 oz. (1000mL)	38-430mm	312004-0032	**02-923-56**	50/326.00

Plastic - Jars

Fisherbrand® Polypropylene Jars

Available with or without caps

- Natural color
- Autoclavable

Capacity	Screw Cap Size	Cat. No.	Case of
With Linerless Caps			
1 oz. (30mL)	43-400mm	**02-912-025**	72/100.60
2 oz. (60mL)	43-400mm	**02-912-026**	48/105.71
4 oz. (125mL)	58-400mm	**02-912-028**	36/82.90
8 oz. (250mL)	89-400mm	**02-912-029**	36/131.99
16 oz. (500mL)	89-400mm	**02-912-024**	24/121.63
32 oz. (1000mL)	120-400mm	**02-912-027**	24/224.60
Jars Only			
2 oz. (60mL)	53-400mm	**02-912-260**	546/250.00
4 oz. (125mL)	58-400mm	**02-912-261**	432/243.00
8 oz. (250mL)	89-400mm	**02-912-258**	112/182.43

Front: 02-912-028, -025, -029, -026. Rear: 02-912-024, -027

Fisherbrand® Wide-Mouth Polypropylene Jars

Higher temperature resistance than LDPE or HDPE

- Handle up to 135°C (275°F) for short periods and 100°C (212°F) continuously
- Brittleness temperature of 0°C (32°F)
- Rigid walls
- Excellent chemical resistance
- Can be sterilized by all normal methods, except dry heat and radiation

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	43mm	**02-891A**	72/126.03
2 oz. (60mL)	53mm	**02-891B**	48/111.17
4 oz. (125mL)	70mm	**02-891C**	36/124.92
8 oz. (250mL)	89mm	**02-891D**	36/163.48
16 oz. (500mL)	89mm	**02-891E**	24/142.41
32 oz. (1000mL)	120mm	**02-891F**	24/232.37

INCLUDES:
Polypropylene linerless screw closures

NOTES:
Completely disengage threads or remove cap before autoclaving.

02-891A to F

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Polystyrene Jars

Available in various capacities varying from 1 oz. to 32 oz.

- Clear polystyrene offers clarity of glass and safety of plastic
- Available with or without caps

Capacity	Screw Cap Size	Cat. No.	Case of
With Foamed PE-lined Caps			
1 oz. (30mL)	43mm-400	**02-911-792**	72/99.36
2 oz. (60mL)	53mm-400	**02-912-267**	48/103.70
4 oz. (125mL)	58mm-400	**02-912-268**	36/93.32
8 oz. (250mL)	89mm-400	**02-912-269**	36/147.30
16 oz. (500mL)	89mm-400	**02-912-265**	24/117.50
32 oz. (1000mL)	120mm-400	**02-912-266**	24/220.98
Jars Only			
8 oz. (250mL)	89mm-400	**02-912-263**	168/246.67
16 oz. (500mL)	89mm-400	**02-912-262**	112/190.10

02-911 Series

Thermo Scientific™ Nalgene™ Straight-Sided Wide-Mouth Jars

Window-clear

- Excellent for cold room and refrigerated use — easy to see contents
- Wide-mouth and straight sides provide full-access and complete sample retrieval easy
- High impact-resistant jars are extremely versatile for collecting and storing pastes, solids, specimens and lab supplies
- 15, 30 and 60mL jars have natural polypropylene closures
- 125mL to 1L jars have white polypropylene closures with recessed tops for stacking
- 125 and 250mL sizes fit Osterizer™ and other blenders that have Mason Jar threads; recommended for use with Fluid Transfer Closure DS2153-0700
- Not liquid leakproof; not recommended for liquid transport
- Autoclavable/transparent

NOTES:
Completely disengage threads or remove cap before autoclaving.

02-925-1A to 1J

Polycarbonate Jars

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of 4	Case of
0.5 oz. (15mL)	38mm	2116-0015	**02-925-1D**	21.80	12 Pk./165.60
1 oz. (30mL)	43mm	2116-0030	**02-925-1A**	26.45	12 Pk./201.50
2 oz. (60mL)	53mm	2116-0060	**02-925-1B**	28.45	12 Pk./222.10
4 oz. (125mL)	70mm	2116-0125	**02-925-1C**	48.23	6 Pk./188.23
8 oz. (250mL)	70mm	2116-0250	**02-925-1G**	58.20	6 Pk./221.50
16 oz. (500mL)	120mm	2116-0500	**02-925-1H**	91.40	4 Pk./232.00
32 oz. (1000mL)	120mm	2116-1000	**02-925-1J**	108.70	4 Pk./275.50

Polypropylene Jars

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
With white polypropylene caps					
0.5 oz. (15mL)	38mm	2118-9050	**11-815-10G**	12/37.30	6 Pk./141.90
1 oz. (30mL)	43mm	2118-0001	**11-815-10A**	12/40.05	6 Pk./152.40
2 oz. (60mL)	53mm	2118 0002	**11-815-10B**	12/42.35	4 Pk./107.50
With white resin caps					
4 oz. (125mL)	70mm	2118 0004	**11-815-10C**	12/66.90	3 Pk./127.10
8 oz. (250mL)	70mm	2118 0008	**11-815-10D**	6/42.20	6 Pk./160.60
16 oz. (500mL)	120mm	2118-0016	**11-815-10E**	6/63.40	4 Pk./160.70
32 oz. (1000mL)	120mm	2118-0032	**11-815-10F**	6/90.30	4 Pk./229.00

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ON THE WEB...

Looking for more plastic jars?

Visit www.fishersci.com and search for Plastic Jars

Thermo Scientific™ Nalgene™ Straight-Sided Wide-Mouth Jars; PMP, White PP Screw Closure

Offer good clarity with excellent chemical resistance

- 60mL jars have natural polypropylene closures
- 125mL to 1L jars have white polypropylene closures with recessed tops for stacking
- Good clarity with excellent chemical resistance make these jars versatile in your lab
- Excellent museum jars, with only 2% loss of formaldehyde per year
- Wide mouth and straight sides provide full-access and complete sample retrieval
- 125 and 250mL sizes fit Osterizer™ and other blenders that have Mason Jar threads
- Not liquid leakproof; not recommended for liquid transport
- Autoclavable/transparent

NOTES: Completely disengage threads or remove cap before autoclaving.

02-925-2B, 11-823-30 to -33

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of 4	Case of
2 oz. (60mL)	53mm	2117-0060	**02-925-2B**	29.45	12 Pk./224.50
4 oz. (125mL)	70mm	2117 0125	**11-823-30**	49.65	6 Pk./188.80
8 oz. (250mL)	70mm	2117-0250	**11-823-31**	57.10	6 Pk./217.00
16 oz. (500mL)	120mm	2117-0500	**11-823-32**	89.60	4 Pk./228.00
32 oz. (1000mL)	120mm	2117-1000	**11-823-33**	107.30	4 Pk./272.50

Plastic - Jugs

Fisherbrand® HDPE Jugs

Made of high density polyethylene

- Narrow mouth is ideal for liquids
- Available as round- or square-shaped

INCLUDES:
Foamed PE-lined caps

02-912-115

Type	Capacity	Screw Cap Size	Cat. No.	Case of
Round	0.5 gal. (2L)	38mm-400	**02-912-115**	40/268.00
Square	1 gal. (4L)	38mm-400	**02-911-992**	4/73.00

Thermo Scientific™ Nalgene™ Jugs; PP Screw Closure

Large handle permits use with rubber gloves for safe handling of corrosive liquid

- Lightweight for easy handling and carrying — one-third the weight of glass
- Leakproof

INCLUDES:
Polypropylene screw caps

02-923-10A and -10B (left to right)

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of 6
LDPE					
1 gal. (4L)	38-430mm	2220-0010	**02-923-10A**	59.90	234.00
2 gal. (8L)	53B	2220-0020	**02-923-10B**	105.20	412.00
Polypropylene					
1 gal. (4L)	38-430mm	2221-0010	**02-960-10A**	69.20	267.00
2 gal. (8L)	53B	2221-0020	**02-960-10B**	128.40	495.00

Plastic - Narrow Mouths, Round

Fisherbrand® Leakproof HDPE Narrow-Mouth Bottles

Economical bottles with a double-seal, leakproof closure

- Translucent HDPE
- Narrow mouth
- No drip lip ensures safe, clean pouring
- Linerless screw caps attached

Left to right: 02-912-323, -324, -321

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20-410mm	**02-912-319**	72/102.29
2 oz. (60mL)	20-410mm	**02-912-320**	72/104.25
4 oz. (125mL)	24-410mm	**02-912-321**	72/115.64
8 oz. (250mL)	24-410mm	**02-912-322**	72/155.40
16 oz. (500mL)	28-410mm	**02-912-323**	48/165.10
32 oz. (1000mL)	38-430mm	**02-912-324**	24/115.22

Fisherbrand® Narrow-Mouth Field Sample Bottles

Bulk-packaged for convenient liquid sampling, transport and storage

- HDPE for excellent chemical resistance
- Rigid and translucent
- Ideal for field sampling

02-895D

INCLUDES: Polypropylene screw caps

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	24mm	**02-895A**	500/505.50
8 oz. (250mL)	24mm	**02-895B**	250/366.50
16 oz. (500mL)	28mm	**02-895C**	125/361.84
32 oz. (1000mL)	38mm-430	**02-895D**	50/196.10

Fisherbrand® Amber HDPE Narrow-Mouth Bottles

Protect light-sensitive materials during sampling, shipping or storage

- Amber high-density polyethylene
- Available in various capacities

03-007 Series

INCLUDES:
Amber polypropylene screw caps

COMPLIANCE:
Meet U.S. Pharmacopoeia 661 (Containers, Light Transmission).

NOTES:
Fisherbrand HDPE containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Cat. No.	Pack of	Case of
4 oz. (125mL)	24mm	**03-007-46**	12/21.74	6 Pk./96.70
8 oz. (250mL)	24mm	**03-007-47**	12/27.80	6 Pk./139.00
16 oz. (500mL)	28mm	**03-007-48**	12/65.80	4 Pk./176.30
32 oz. (1L)	38mm-430	**03-007-49**	6/17.56	4 Pk./46.28
64 oz. (2L)	38mm-430	**03-007-50**	1/2.01	6/12.07

Fisherbrand® HDPE Cylinder Rounds

Ideal for storing, shipping and packaging liquids for long periods

- Rigid and translucent
- Shoulder permits pouring of small quantities without spilling
- Narrow mouth
- Natural color
- Available with or without caps

02-911-979, -980, -983, -982

Capacity	Screw Cap Size	Cat. No.	Case of
With Polyethylene Foam-lined Closures			
2 oz. (60mL)	24mm-410	**02-911-979**	48/67.22
2 oz. (60mL)	24mm-410	**02-912-112**	800/457.00
4 oz. (125mL)	24mm-410	**02-911-980**	48/108.87
8 oz. (250mL)	24mm-410	**02-911-981**	48/97.40
8 oz. (250mL)	24mm-410	**02-911-962**	230/245.00
16 oz. (500mL)	24mm-410	**02-911-982**	24/111.54
16 oz. (500mL)	24mm-410	**02-912-293**	180/223.00
32 oz. (1000mL)	24mm-410	**02-911-983**	12/62.11
32 oz. (1000mL)	28mm-400	**02-912-294**	77/149.20
Without Closures			
4 oz. (125mL)	24mm-410	**02-911-989**	425/230.50
8 oz. (250mL)	24mm-410	**02-911-963**	230/154.10
16 oz. (500mL)	24mm-410	**02-911-800**	180/447.13
32 oz. (1000mL)	28mm-400	**02-911-988**	162/174.30

Thermo Scientific™ Nalgene™ Narrow-Mouth Bottles; Teflon™ FEP, Tefzel™ ETFE closure

Ideal for cryogenic experiments, trace metal analysis, organic solvents

- Autoclavable and transparent; chemical and corrosion resistant
- Withstand -105° to +150°C (-157° to +302°F)
- Leakproof†, ETFE screw caps included

02-923-30 Series

NOTES:
Completely disengage threads or remove cap before autoclaving.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of
1 oz. (30mL)	20mm	1600-0001	**02-923-30AA**	324.50	8/324.50
2 oz. (60mL)	20mm	1600-0002	**02-923-30BB**	393.50	8/393.50
4 oz. (125mL)	24mm	1600-0004	**02-923-30A**	443.00	6/443.00
8 oz. (250mL)	24mm	1600-0008	**02-923-30B**	485.00	4/485.00
16 oz. (500mL)	28mm	1600-0016	**02-923-30C**	589.00	4/589.00
32 oz. (1000mL)	38mm	1600-0032	**02-923-30D**	819.50	4/819.50
64 oz. (2000mL)	38-430mm	1600-0064	**02-923-30E**	703.98	2/682.86

Thermo Scientific™ Nalgene™ Narrow-Mouth Economy Bottles; Natural HDPE

Ideal for field sampling

- Lightweight versions of the original Nalgene Lab Quality bottle, suitable for light-duty, general-purpose applications where a heavier bottle is not required
- Economical and reusable
- Translucence allows for easy viewing of liquid levels
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Leakproof

03-313-2 Series

INCLUDES:
Polypropylene screw caps

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Closure Size	Neck I.D.	O.D.	Height with Closure	Mfr. No.	Cat. No.	Case of
30mL	20mm	14mm	34mm	61mm	2089-0001	**03-313-2A**	72/51.85
60mL	20mm	14mm	39mm	86mm	2089-0002	**03-313-2B**	72/61.21
125mL	24mm	18mm	50mm	104mm	2089-0004	**03-313-2C**	72/74.10
250mL	24mm	18mm	61mm	133mm	2089-0008	**03-313-2D**	72/107.20
500mL	28mm	21mm	73mm	171mm	2089-0016	**03-313-2E**	48/106.10
1000mL	38-430mm	27mm	92mm	217mm	2089-0032	**03-313-2F**	24/81.90

Thermo Scientific™ Nalgene™ Lab Quality Amber Narrow-Mouth Bottles; Amber HDPE

Reduce UV light transmissions to protect light-sensitive liquids

- Opaque amber reduces UV light transmissions to protect light-sensitive liquids
- Meets the U.S. Pharmacopoeia 23 requirements for light transmission
- Excellent chemical resistance to most acids, bases and alcohols make these versatile bottles where exposure to light needs to be restricted
- Can be used in freezer to -100°C (-148°F) for long term storage
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaiminate your reagents
- Leakproof†

02-923 series

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
0.125 oz. (4mL)	13mm	2004-9125	**02-923-8F**	12/25.50	6 Pk./97.00
0.25 oz. (8mL)	20mm	2004-9025	**02-923-11C**	12/27.60	6 Pk./104.90
0.5 oz. (15mL)	20mm	2004 9050	**02-923-8E**	12/28.00	6 Pk./106.40
1 oz. (30mL)	20mm	2004-0001	**02-923-5A**	12/38.40	6 Pk./146.00
2 oz. (60mL)	20mm	2004-0002	**02-923-5B**	12/39.65	6 Pk./150.80
4 oz. (125mL)	24mm	2004-0004	**02-923-5C**	12/46.35	6 Pk./180.91
8 oz. (250mL)	24mm	2004-0008	**02-923-5D**	12/61.70	6 Pk./246.50
16 oz. (500mL)	28mm	2004-0016	**02-923-5E**	12/92.70	4 Pk./247.00
32 oz. (1000mL)	38-430mm	2004-0032	**02-923-5F**	6/76.40	4 Pk./203.50

INCLUDES:
Amber polypropylene screw caps

COMPLIANCE:
Meet U.S. Pharmacopeia XXIII requirements for maximum light transmission.

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Thermo Scientific™ Nalgene™ Diagnostic Bottles with Closures; Bulk Pack

- Nonsterile
- Choice of Natural or Amber HDPE resin color
- Linerless polypropylene closures
- Durable, uniform walls are resistant to splitting or puncturing
- Leakproof†

03-313-25A, -20B, -24A (left to right)

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton. 2000 per case.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Diagnostic Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of 2000
Natural				
0.125 oz. (4mL)	13-415mm	312002-9125	**03-313-20B**	946.00
0.25 oz. (8mL)	20-415mm	312002-9025	**03-313-24A**	987.00
0.5 oz. (15mL)	20-415mm	312002-9050	**03-313-25A**	1050.00
Amber				
4mL	13-415mm	312004-9125	**02-923-111**	1046.00
8mL	20-415mm	312004-9025	**03-313-24B**	1078.00
15mL	20-415mm	312004-9050	**03-313-25B**	1128.00

Thermo Scientific™ Nalgene™ Narrow-Mouth Packaging Bottles; Natural HDPE with PP Closures, Bulk Pack

Ideal for diagnostics, biologicals, specialty chemicals, reagents, adhesives and veterinary pharmaceuticals

- Injection blow-molded for uniform wall thickness and strength
- Made from high-purity, food-grade resins
- Tough plastic construction
- Polypropylene closures included
- Leakproof†
- Recommended for storage and shipment of liquid reagents

03-313-11A to -11F

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of
1 oz. (30mL)	20mm	312089-0001	**03-313-11A**	1000/578.00
2 oz. (60mL)	20mm	312089-0002	**03-313-11B**	1000/591.00
4 oz. (125mL)	24mm	312089-0004	**03-313-11C**	500/330.50
8 oz. (250mL)	24mm	312089-0008	**03-313-11D**	250/251.50
16 oz. (500mL)	28mm	312089-0016	**03-313-11E**	125/180.30
32 oz. (1000mL)	38-430mm	312089-0032	**03-313-11F**	50/118.90

Thermo Scientific™ Nalgene™ Narrow-Mouth Packaging Bottles; Opaque Amber HDPE with Opaque Amber PP Closure, Bulk Pack

Opaque amber HDPE with opaque amber polypropylene caps

- Injection blow-molded for uniform wall thickness and strength
- Opaque amber HDPE bottle with opaque amber polypropyline closure
- Tough plastic construction
- Bulk packed for packaging applications
- Leakproof†
- Recommended for: storage and shipping of light-sensitive reagents

03-313-8 Series

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI. Product meets the requirements for light-resistant containers per USP latest edition.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of
1 oz. (30mL)	20mm	312085-0001	**03-313-8A**	1000/659.00
2 oz. (60mL)	20mm	312085-0002	**03-313-8B**	1000/668.50
4 oz. (125mL)	24mm	312085-0004	**03-313-8C**	500/372.00
8 oz. (250mL)	24mm	312085-0008	**03-313-8D**	250/279.14
16 oz. (500mL)	28mm	312085-0016	**03-313-8E**	125/204.50
32 oz. (1000mL)	38mm	312085-0032	**03-313-8F**	50/132.90

Thermo Scientific™ Nalgene™ Narrow Mouth Bottles; HDPE with PP Closures, Certified Low Particulate

Excellent for storing high-purity chemicals

Controlled environment manufacturing minimizes particulate contamination.

- Extremely low in trace metal content, making them an excellent choice for storing high-purity chemicals
- Suitable for use in compliance with the regulations for customers who are designing, assembling and certifying their own combination packaging
- Leakproof†

03-313-87 Series

COMPLIANCE:
Each lot of IP2 bottles is hydrostatically tested to meet UN Performance Capability requirements of 15psi (103 kPa).

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
4 oz. (125mL)	24mm	382099-0125	**03-313-87A**	72/161.31
8 oz. (250mL)	24mm	382099-0250	**03-313-87B**	72/231.19
16 oz. (500mL)	28mm	382099-0500	**03-313-87C**	48/215.98
32 oz. (1000mL)	38-430mm	382099-1000	**03-313-87D**	24/192.93

Thermo Scientific™ Nalgene™ Narrow-Mouth Packaging Bottles; HDPE with White PP Closure in Shrink-Wrapped Trays, Sterile

Provide excellent chemical resistance

- Shrink-wrapped trays are packed in double-polybagged cartons
- Durable construction
- Narrow mouth for easy pouring
- Natural HDPE bottles with white PP closures
- 10^{-6} SAL
- Sterile
- Leakproof†

01-288 Series

ORDERING INFORMATION:
Bottles are packed in shrink-wrapped trays with closures assembled.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Bottles and closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
1 oz. (30mL)	20-415mm	342089-0001	**01-288-33**	864/673.86
2 oz. (60mL)	20-415mm	342089-0002	**01-288-34**	540/519.07
4 oz. (125mL)	24-415mm	342089-0004	**01-288-36**	240/251.96
8.45 oz. (250mL)	24-415mm	342089-0008	**01-288-37**	180/253.97
16 oz. (500mL)	28-415mm	342089-0016	**01-288-39**	120/270.13
32 oz. (1000mL)	28-415mm	342089-0032	**01-288-40**	24/105.44

Thermo Scientific™ Nalgene™ Diagnostic Bottles; HDPE with White PP Closure, Sterile, Tray Packed

Available in different sizes

- Produced in a controlled environment
- Trays are easy to handle
- Include linerless polypropylene closures
- Durable, uniform walls are resistant to splitting or puncturing
- Sterile to 10^{-6} SAL
- Bottles with closures assembled come in an sbs tray
- Leakproof†

01-288-30

ORDERING INFORMATION:
Bottles are packed in shrink-wrapped trays with closures assembled.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Diagnostic Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI.

Capacity	Material	Color	Neck Finish	Mfr. No.	Cat. No.	Case of
0.25 oz. (8mL)	HDPE	Translucent Natural	20-415mm	342002-9025	**01-288-30**	980/600.00
0.5 oz. (15mL)	HDPE	Translucent Natural	20-415mm	342002-9050	**01-288-31**	896/573.50

Thermo Scientific™ Nalgene™ Narrow-Mouth Bottles; LDPE

Translucent; offer flexibility, impact resistance and visibility of liquid level

- Extremely low in trace metal content, making them an excellent choice for applications like trace metal analysis
- Excellent chemical resistance to most acids, bases and alcohols make this a versatile bottle
- Can be used in freezer to -100°C (-148°F) for long-term storage
- Translucence allows easy viewing of liquid levels
- Linerless caps provide the ultimate in leakproof protection without use of liner that can wrinkle, cause leaks or contaminate your reagents
- Leakproof†

02-92 Series

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
0.25 oz. (8mL)	20mm	2003-9025	**02-923-11B**	12/15.81	6 Pk./60.30
0.5 oz. (15mL)	20mm	2003 9050	**02-923-8C**	12/17.87	6 Pk./68.20
1 oz. (30mL)	20mm	2003-0001	**02-924-6A**	12/23.90	6 Pk./90.80
2 oz. (60mL)	20mm	2003 0002	**02-924-6B**	12/24.05	6 Pk./91.30
4 oz. (125mL)	24mm	2003 0004	**02-924-6C**	12/30.90	6 Pk./117.50
8 oz. (250mL)	24mm	2003-0008	**02-924-6D**	12/45.10	6 Pk./171.50
16 oz. (500mL)	28mm	2003-0016	**02-924-6E**	12/61.50	4 Pk./155.90
16 oz. (500mL)	38-430mm	2003-9016	**02-923-11G**	12/95.90	4 Pk./243.50
32 oz. (1000mL)	38-430mm	2003-0032	**02-924-6F**	6/53.00	4 Pk./140.90

Thermo Scientific™ Nalgene™ Heavy-Duty Vacuum Bottles: HDPE with PP Closure, Lab Pack

Rigid, thick-walled, HDPE bottles

- Unique, heavy-duty construction
- Available in capacities of 1-, 2- and 4-Liter sizes
- White polypropylene linerless closures are leakproof†

INCLUDES:
White polypropylene screw caps

02-923-1, -2, -4

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
32 oz. (1L)	53B	2125-1000	**02-923-1**	6/141.30	4 Pk./357.00
64 oz. (2L)	53B	2125-2000	**02-923-2**	2/63.50	6 Pk./241.00
128 oz. (4L)	83B	2125-4000	**02-923-4**	1/72.70	6/275.50

Thermo Scientific™ Nalgene™ Large Narrow-Mouth Bottles; LDPE

Translucent; offer flexibility, impact resistance and visibility of contents

- Extremely low trace metal content in LDPE makes them ideal for trace metal analysis
- Excellent chemical resistance to most acids, bases and alcohols make these versatile bottles
- Can be used in freezer to -100°C (-148°F) for long term storage
- 4 and 8L sizes feature a built-in shoulder loop on larger sizes for attaching identification tag
- Translucence allows for easy viewing of liquid levels
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contiminate your reagents
- Leakproof†

02-923G, -923J, -923K

INCLUDES:
Leakproof† polypropylene screw caps

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of 6
0.5 gal. (2L)	38mm-430	2202-0005	**02-923G**	27.85	108.20
1 gal. (4L)	38-430mm	2202-0010	**02-923J**	38.20	148.90
2 gal. (8L)	53B	2202-0020	**02-923K**	65.20	254.50

Thermo Scientific™ Nalgene™ Narrow-Mouth Bottles; Teflon™ PFA Screw Closure

Temperature, chemical and corrosion resistant

- Withstand -270° to +250°C (-454° to +482°F)
- Inert to virtually all chemicals except molten alkali metals, fluorine at high temperatures and complex halogenated compounds at high temperatures and pressures
- Packaged individually
- Autoclavable
- Leakproof† PFA closure

02-923-35 Series

INCLUDES:
Leakproof†, linerless PFA screw caps

NOTES: Completely disengage threads or remove cap before autoclaving.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
1 oz. (30mL)	20mm	DS1630 0001	**02-923-35H**	8/478.00
2 oz. (60mL)	20mm	DS1630 0002	**02-923-35J**	8/576.66
4 oz. (125mL)	38-430mm	1630-0004	**02-923-35K**	6/574.00
8 oz. (250mL)	38-430mm	1630-0008	**02-923-35L**	4/542.46
16 oz. (500mL)	38-430mm	1630-0016	**02-923-35M**	4/758.50
32 oz. (1000mL)	38-430mm	1630-0032	**02-923-35N**	4/1195.00

Thermo Scientific™ Nalgene™ Diagnostic Bottles without Closure; Natural PPCO, Bulk Pack

For use in test kits and many small-volume applications

- Nonsterile
- Natural translucent PPCO provides excellent chemical resistance
- Durable, uniform walls are resistant to splitting or puncturing
- Various colored closures are available for use with these bottles
- Autoclavable
- Leakproof† when assembled with closure (must be ordered separately)

02-923-120

ORDERING INFORMATION:
Bottles are bulk packed without closures. 2000 per case. Order colored closures separately (Cat. No. 362150).

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Diagnostic Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI.

Capacity	Material	Closure Size	Mfr. No.	Cat. No.	Case of 2000
0.125 oz. (4mL)	PPCO	13-415mm	362006-9125	**02-923-120**	661.09
0.5 oz. (15mL)	PPCO	20-415mm	362006-9050	**03-313-160**	699.50

Thermo Scientific™ Nalgene™ Diagnostic Bottles, White Without Closures; HDPE, Bulk Pack

Natural HDPE

- Nonsterile
- Opaque white high-density polyethylene
- Durable, uniform walls are resistant to splitting or puncturing
- Leakproof† when assembled with closure (must be ordered separately)

Nalgene White Diagnostic Bottles

ORDERING INFORMATION:
Bottles are bulk packed without closures. 2000 per case. Order colored closures separately (Cat. No. 362150).

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Diagnostic Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI. Product meets the requirements for light-resistant containers per USP latest edition when used with colored closures.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of 2000
0.25 oz. (8mL)	20-415mm	362008-9025	**02-923-142**	719.03
0.5 oz. (15mL)	20-415mm	362008-9050	**02-923-141**	782.00

Thermo Scientific™ Nalgene™ Large Narrow-Mouth Bottles; PPCO, PP Screw Closure

Excellent for storing corrosive chemicals and distilled water

- 4 and 8L feature a built-in shoulder loop on larger sizes for attaching identification tag
- Lighter weight than glass alternatives make for easy lifting
- Translucence allows for easy viewing of liquid levels
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Autoclavable/leakproof†

02-924A to -924C

INCLUDES: Polypropylene screw caps

NOTES:
Completely disengage threads or remove closure before autoclaving. Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of 6
0.5 gal. (2L)	38mm-430	2203 0005	**02-924A**	35.70	136.20
1 gal. (4L)	38-430mm	2203-0010	**02-924B**	50.60	193.10
2 gal. (8L)	53B	2203-0020	**02-924C**	84.30	322.50

Thermo Scientific™ Nalgene™ Large Amber Narrow-Mouth Bottles

Reduce UV light transmissions to protect light-sensitive liquid

- Opaque amber reduces UV light transmissions to protect light-sensitive liquids
- Meet the U.S. Pharmacopoeia 23 requirements for light transmission
- Excellent chemical resistance to most acids, bases and alcohols make these versatile bottles where exposure to light needs to be restricted
- 4 and 8L sizes feature a built-in shoulder loop on larger sizes for attaching identification tag
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Autoclavable/leakproof†

02-884-6 Series

COMPLIANCE:
Comply with U.S. Pharmacopeia XXIII requirements for maximum allowable light transmission.

NOTES:
Completely disengage threads or remove cap before autoclaving. Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of 6
0.5 gal. (2L)	38-430mm	2204-0005	**02-884-6A**	38.35	145.80
1 gal. (4L)	38-430mm	2204-0010	**02-884-6B**	51.10	194.40
2 gal. (8L)	53B	2204-0020	**02-884-6D**	82.00	312.50

Plastic - Wide Mouths, Round

Fisherbrand® Leakproof HDPE Wide-Mouth Bottles

Rigid, translucent bottles

- Leakproof†
- Higher temperature-use rating than LDPE — up to 120°C (248°F) for short periods and 110°C (230°F) for continuous use
- Brittleness temperature at -100°C (-148°F)
- Bottles may be radiation, EtO or chemically sterilized
- Not autoclavable

INCLUDES:
Polypropylene screw caps

02-896-2D, 2B

Capacity	Screw Cap Size	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	**02-896-2A**	12/31.83	6 Pk./125.78
2 oz. (60mL)	28mm	**02-896-2B**	12/32.55	6 Pk./128.47
4 oz. (125mL)	38mm	**02-896-2C**	12/39.92	6 Pk./154.41
8 oz. (250mL)	43mm	**02-896-2D**	12/54.60	6 Pk./215.83
16 oz. (500mL)	53mm	**02-896-2E**	12/89.93	4 Pk./232.29
32 oz. (1000mL)	63mm	**02-896-2F**	6/88.60	4 Pk./233.34

Fisherbrand® Amber HDPE Wide-Mouth Bottles

Reduce UV light transmission to protect light-sensitive liquids

Amber high-density polyethylene.

- Wide mouth allows easy retrieval of grab samples and reduces turbulence when filling

03-007-52, -53, -51

INCLUDES:
Amber polypropylene screw caps

COMPLIANCE:
U.S. Pharmacopoeia 661 (Containers, Light Transmission)†

NOTES:
Fisherbrand HDPE containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Cat. No.	Pack of	Case of
2 oz. (60mL)	28mm	**03-007-51**	12/26.50	6 Pk./107.00
4 oz. (125mL)	38mm	**03-007-52**	12/29.00	6 Pk./114.45
8 oz. (250mL)	43mm	**03-007-53**	12/44.20	6 Pk./174.52
16 oz. (500mL)	53mm	**03-007-54**	12/60.20	4 Pk./162.00
32 oz. (1000mL)	63mm	**03-007-55**	6/68.82	4 Pk./181.21

Fisherbrand® HDPE Wide-Mouth Round Bottles

For storing solids or liquids

- Translucent HDPE
- Wide mouth for easy filling

Left to right:
02-912-031, -021, -020, -018

With Foamed PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	28-400mm	**02-912-037**	48/107.95
1 oz. (30mL)	28-400mm	**02-912-104**	1650/824.50
2 oz. (60mL)	33-400mm	**02-912-031**	48/46.40
2 oz. (60mL)	33-400mm	**02-912-019**	950/733.50
4 oz. (125mL)	38-400mm	**02-912-032**	48/132.00
4 oz. (125mL)	38-400mm	**02-912-021**	500/465.50
8 oz. (250mL)	53-400mm	**02-912-034**	48/77.50
8 oz. (250mL)	53-400mm	**02-912-022**	260/336.50
16 oz. (500mL)	53-400mm	**02-912-030**	24/58.20
16 oz. (500mL)	53-400mm	**02-912-018**	137/220.50
32 oz. (1000mL)	53-400mm	**02-912-038**	12/72.74
32 oz. (1000mL)	53-400mm	**02-912-020**	72/160.80
64 oz. (2000mL)	89-400mm	**02-912-033**	6/90.30
64 oz. (2000mL)	89-400mm	**02-911-990**	75/344.00
96 oz. (3000mL)	100-400mm	**02-912-035**	4/67.33
96 oz. (3000mL)	100-400mm	**02-912-103**	33/163.60
130 oz. (3840mL)	89-400mm	**02-912-036**	4/52.40

Bottles Only (Without Closures)

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	38mm-400	**02-911-886**	500/666.52
8 oz. (250mL)	53mm-400	**02-912-105**	260/326.50
16 oz. (500mL)	53mm-400	**02-912-110**	137/227.66
32 oz. (1000mL)	53mm-400	**02-912-023**	72/515.50
130 oz. (3840mL)	89mm-400	**02-911-874**	4/50.92

Fisherbrand® Wide-Mouth Field Sample Bottles

Bulk-packaged for convenient liquid sampling, transport and storage

Excellent chemical resistance.

- Rigid and translucent

02-895-1A to -1D

INCLUDES:
Polypropylene screw caps

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	38mm	**02-895-1A**	500/590.00
8 oz. (250mL)	43mm	**02-895-1B**	250/418.00
16 oz. (500mL)	53mm	**02-895-1C**	125/317.30
32 oz. (1000mL)	63mm	**02-895-1D**	50/198.20

Fisherbrand® Polypropylene Wide-Mouth Bottles

Higher temperature resistance than LDPE or HDPE

Handle up to 120°C (248°F)† for short periods and 100°C (212°F) continuously.

- Brittleness temperature of 0°C (32°F)
- Rigid walls
- Excellent chemical resistance
- Can be sterilized by all normal methods, except dry heat and radiation

02-891B Jar (shown with 02-896D Bottle)

INCLUDES:
Polypropylene linerless screw caps

NOTES:
Completely disengage threads or remove cap before autoclaving.

Capacity	Screw Cap Size	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	**02-896A**	12/34.15	6 Pk./134.84
2 oz. (60mL)	33mm	**02-896B**	12/35.05	6 Pk./141.40
4 oz. (125mL)	38mm	**02-896C**	12/46.31	6 Pk./182.86
8 oz. (250mL)	45mm	**02-896D**	12/71.50	6 Pk./282.28
16 oz. (500mL)	53mm	**02-896E**	12/111.78	4 Pk./294.64
32 oz. (1000mL)	65mm	**02-896F**	6/112.29	4 Pk./295.67

† Bottle may reach maximum temperature only if empty.

Fisherbrand® Clear PET Wide-Mouth Packers

PET wide-mouth packers are available in capacities of 60, 125, 250mL

- Foamed PE- or PTFE-lined caps attached

02-911-795

Capacity	Screw Cap Size	Cat. No.	Case of
With Foamed PE-lined Caps			
2 oz. (60mL)	33mm-400	**02-911-849**	48/26.95
4 oz. (120mL)	38mm-400	**02-911-795**	48/26.70
8 oz. (250mL)	45mm-400	**02-911-808**	48/130.94
With PTFE-lined Caps			
4 oz. (125mL)	38mm-400	**02-912-350**	576/1355.00

Fisherbrand® LDPE Wide-Mouth Bottles

Ungraduated, translucent for better visibility

Virtually unbreakable, yet very flexible.

- Chemically resistant to most weak and strong acids and organic solvents, but can be slowly attacked by strong oxidizing agents and some solvents that can cause softening and swelling
- Maximum use temperature 80°C (176°F) with brittleness temperature of -100°C (-148°F)
- Bottles can be radiation, gas, EtO or chemically sterilized; not autoclavable

02-896-1E

INCLUDES: Polypropylene screw caps

Capacity	Screw Cap Size	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	**02-896-1A**	12/31.06	6 Pk./122.69
2 oz. (60mL)	28mm	**02-896-1B**	12/32.29	6 Pk./127.51
4 oz. (125mL)	38mm	**02-896-1C**	12/39.30	6 Pk./155.15
8 oz. (250mL)	43mm	**02-896-1D**	12/52.33	6 Pk./206.55
16 oz. (500mL)	53mm	**02-896-1E**	12/83.23	4 Pk./219.41
32 oz. (1000mL)	63mm	**02-896-1F**	6/83.76	4 Pk./220.98

Fisherbrand® Graduated LDPE Wide-Mouth Bottles

Provide easy filling and pouring

- Translucent for better visibility
- Virtually unbreakable, yet flexible
- Ideal for general storage of liquids and powders
- Chemically resistant to most weak and strong acids and organic solvents
- Maximum use temperature: 80°C (176°F)
- Can be radiation, gas, EtOH or chemically sterilized

03-415-503, -502, -501, -500

Caps

- Polypropylene caps have valve-seal design for perfect, leakproof fit with molded pouring lip and seal
- Deep square threads withstand vibration and help prevent cap back-off
- Ribbed caps provide good grip for tight closure and easy opening
- Inner surfaces are smooth and rounded for thorough emptying and cleaning
- Protruding neck ring under cap holds shrink-wrap securely in place

NOTES:
Not autoclavable. Strong oxidizing agents and some solvents can cause softening and swelling.

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	38mm	**03-415-500**	12/47.08
8 oz. (250mL)	45mm	**03-415-501**	12/70.18
16 oz. (500mL)	53mm	**03-415-502**	6/65.90
32 oz. (1000mL)	53mm	**03-415-503**	6/99.45

Thermo Scientific™ Nalgene™ Polypropylene Copolymer Wide-Mouth Packaging Bottles — Bulk Pack

Tough plastic construction; guaranteed leakproof†

- Wide mouth allows for easy filling and dispensing of powders
- Injection blow molded for uniform wall thickness and strength
- Made from high-purity, food grade resins; no plasticizers, fillers or extenders
- Polypropylene closures included
- Leakproof

02-923 and 03-313 Series

APPLICATIONS:
Ideal for diagnostics, biologicals, specialty chemicals, reagents, adhesives and veterinary pharmaceuticals

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of
30mL	28mm	312187-0001	**02-923-131**	1000/764.50
60mL	28mm	312187-0002	**02-923-69**	1000/770.00
125mL	38mm	312187-0004	**03-313-14C**	500/433.00
250mL	43mm	312187-0008	**03-313-14D**	250/325.50
500mL	53mm	312187-0016	**03-313-14E**	125/236.50
1000mL	63mm	312187-0032	**02-923-67**	50/154.90

Thermo Scientific™ Nalgene™ Wide-Mouth Packaging Bottles: HDPE with PP Closure — Bulk Pack

Injection blow molded for uniform wall thickness and strength

Wide mouth for easy filling and dispensing of reagents.

- Tough plastic construction
- Made from high-purity, food grade resins
- Leakproof†

03-313-15 Series Bottles

APPLICATIONS:
Ideal for diagnostics, biologicals, specialty chemicals, reagents, adhesives and veterinary pharmaceuticals.

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton.

COMPLIANCE:
Manufactured in compliance with ISO 13485:2003 quality requirements. Bottles and Closures meet the requirements of 21CFR177.1520 for food and beverage use, USP Class VI.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of
1 oz. (30mL)	28mm	312189-0001	**03-313-15A**	1000/649.40
2 oz. (60mL)	28mm	312189-0002	**03-313-15B**	1000/660.00
4 oz. (125mL)	38mm	312189-0004	**03-313-15C**	500/372.00
8 oz. (250mL)	43mm	312189-0008	**03-313-15D**	250/278.65
16 oz. (500mL)	53mm	312189-0016	**03-313-15E**	125/200.91
32 oz. (1000mL)	63mm	312189-0032	**03-313-15F**	50/132.20

Thermo Scientific™ Nalgene™ Mason Jars; PPCO, White PP Screw Closures

Ideal for fluid transfer in the lab or field when used with fluid-transfer closure (DS2153)

70mm neck designed to take fixtures or closures with Mason Jar threads or with Osterizer™ or other blenders with the same threads.

- Wide mouth is easy to fill or sample
- Autoclavable

11-825 Series

NOTES:
Completely disengage threads or remove cap before autoclaving

Capacity	Mfr. No.	Cat. No.	Price	Case of
16 oz. (500mL)	2115-0500	**11-825A**	Pk. of 6/117.30	4 Pk./295.50
32 oz. (1000mL)	2115-1000	**11-825B**	Pk. of 6/136.00	4 Pk./342.50
64 oz. (2000mL)	2115-2000	**11-825C**	Pk. of 4/120.90	3 Pk./228.50
96 oz. (3000mL)	2115-3000	**11-825D**	Ea./38.90	6 Ea./146.70

Thermo Scientific™ Nalgene™ Wide-Mouth Bottles; Teflon™ FEP, Tefzel™ ETFE closure

Excellent chemical and temperature resistance

- Clear
- Withstand temperatures from -105°C (-157°F)
- Ideal for high- or low-temperature work, trace metal analysis and applications with organic solvents
- ETFE caps included
- Leakproof†

02-924-15 Series

NOTES:
Before autoclaving, completely disengage threads or remove closure

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
4 oz. (125mL)	33mm-415	2100 0004	**02-924-15A**	6/527.50
8 oz. (250mL)	43mm	2100 0008	**02-924-15C**	4/540.50
16 oz. (500mL)	48mm	2100-0016	**02-924-15E**	4/678.50
32 oz. (1000mL)	53mm	2100-0032	**02-924-15G**	4/890.56

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. Note: these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.

Thermo Scientific™ Nalgene™ Translucent Wide-Mouth Economy Bottles; Natural HDPE, Natural PP Screw Closure

Economical and disposable bottles that resist breakage

Lightweight versions of the original Nalgene Lab Quality Bottle, suitable for light-duty, general purpose applications where a heavier bottle is not required.

- Economical and recyclable
- Wide mouth makes these bottles easy to fill with solids or liquids
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate your solutions
- Leakproof†

03-313-4 Series

INCLUDES:
Polypropylene screw caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Material: HDPE				
1 oz. (30mL)	28mm	2189-0001	**03-313-4A**	72/73.10
2 oz. (60mL)	28mm	2189-0002	**03-313-4B**	72/85.84
4 oz. (125mL)	38mm	2189-0004	**03-313-4C**	72/95.50
8 oz. (250mL)	43mm	2189-0008	**03-313-4D**	72/133.30
16 oz. (500mL)	53mm	2189-0016	**03-313-4E**	48/131.69
32 oz. (1000mL)	63mm	2189-0032	**03-313-4F**	24/134.40
Material: PPCO				
4 oz. (125mL)	38mm	2187-0004	**02-925-138**	72/134.50
8 oz. (250mL)	43mm	2187-0008	**02-925-139**	72/211.00
16 oz. (500mL)	53mm	2187-0016	**02-925-140**	48/199.50
32 oz. (1000mL)	63mm	2187-0032	**02-925-141**	24/158.40

Thermo Scientific™ Nalgene™ Large Wide-Mouth Bottles; HDPE, White PP Screw Closure

Ideal for use with water sampling, dry chemicals and collecting 24-hour urine specimens

- Excellent chemical resistance to most acids, bases and alcohols make this a versatile bottle
- Can be used in freezer to -100°C (-148°F) for long term storage
- Linerless cap closes the bottle without a liner that can wrinkle, cause leaks and contaminate your solutions
- This bottle is not liquid leakproof

11-815-11A, -11B

INCLUDES:
100mm polypropylene screw caps

Capacity	Nalgene No.	Cat. No.	Each	Case of 6
0.5 gal. (2L)	2120-0005	**11-815-11A**	26.40	100.40
1 gal. (4L)	2120-0010	**11-815-11B**	38.20	145.30

Thermo Scientific™ Nalgene™ Wide-Mouth HDPE Bottles for Chemicals or Specimens

Durable, translucent general-purpose bottles for several applications in the lab or field

Wide mouth makes these bottles easy to fill with solids or liquids.

- Excellent chemical resistance to most corrosives make these bottles versatile and indispensable in your lab
- Ideal for storing, shipping and packaging liquids — uniform walls provide durability and resistance to splitting or punctures
- Can be used in a freezer down to -100°C (-148°F)
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaiminate your reagents
- Leakproof†

02-893-5 Series

INCLUDES: Polypropylene screw closure

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	2104-0001	**02-893-5A**	12/35.30	6 Pk./134.20
2 oz. (60mL)	28mm-415	2104-0002	**02-893-5B**	12/35.85	6 Pk./136.40
4 oz. (125mL)	38mm	2104-0004	**02-893-5C**	12/44.40	6 Pk./168.90
8 oz. (250mL)	43mm	2104-0008	**02-893-5D**	12/63.40	6 Pk./254.00
16 oz. (500mL)	53mm	2104-0016	**02-893-5E**	12/89.60	4 Pk./227.50
32 oz. (1000mL)	63mm	2104-0032	**02-893-5F**	6/79.40	4 Pk./201.50
48 oz. (1500mL)	63mm	2104-0048	**10-346-9**	24/239.50	----

Thermo Scientific™ Nalgene™ Amber HDPE Wide-Mouth Bottles

Protect light-sensitive materials during shipping or storage

Opaque amber reduces UV light transmissions to protect light-sensitive contents.

- Excellent chemical resistance to most acids, bases and alcohols make this a versatile bottle where exposure to light needs to be restricted
- Can be used in freezer to -100°C (-148°F) for long term storage
- Wide mouth is easy to fill
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate solutions
- Leakproof†

02-925-3A to -3E, 02-924-22

INCLUDES: Amber polypropylene screw caps

COMPLIANCE: Meet U.S. Pharmacopoeia 23 requirements for maximum light transmission; Comply with USP XXIII requiremnts for maximum light transmission.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	2106 0001	**02-925-3A**	12/112.40	6 Pk./187.90
2 oz. (60mL)	28mm	2106 0002	**02-925-3B**	12/47.05	6 Pk./191.10
4 oz. (125mL)	38mm	2106-0004	**02-925-3C**	12/50.20	6 Pk./218.50
8 oz. (250mL)	43mm	2106-0008	**02-925-3D**	12/57.40	6 Pk./326.50
16 oz. (500mL)	53mm	2106-0016	**02-924-22**	12/85.70	4 Pk./285.50
32 oz. (1000mL)	63mm	2106-0032	**02-925-3E**	6/100.20	4 Pk./254.50

Thermo Scientific™ Nalgene™ Amber HDPE Wide-Mouth Economy Bottles

Reduce UV light transmission and protect light-sensitive liquids

Lightweight versions of the original Nalgene Amber Lab Quality Bottle, suitable for light-duty, general purpose applications where a heavier bottle is not required. Excellent chemical resistance to most acids, bases and alcohols make this a versatile bottle where exposure to light needs to be restricted.

03-313-3 Series

- Opaque amber reduces UV light transmissions to protect light-sensitive liquids
- Economical and recyclable; designed for single use
- Can be used in freezer to -100°C (-148°F) for long term storage
- Wide mouth for easy filling, sampling
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate your solutions
- Leakproof†

COMPLIANCE: Meet U.S. Pharmacopoeia 23 requirements for maximum light transmission.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
1 oz. (30mL)	28mm	DS2185 0001	**03-313-3A**	72/142.57
2 oz. (60mL)	28mm	DS2185 0002	**03-313-3B**	72/146.12
4 oz. (125mL)	38mm	DS2185-0004	**03-313-3C**	72/170.03
8 oz. (250mL)	43mm	DS2185-0008	**03-313-3D**	72/262.50
16 oz. (500mL)	53mm	DS2185-0016	**03-313-3E**	48/225.50
32 oz. (1000mL)	63mm	DS2185-0032	**03-313-3F**	24/195.98

Thermo Scientific™ Nalgene™ Wide-Mouth Bottles; LDPE, PP Screw Closures

Translucent bottles provide better visibility than HDPE bottles and are flexible with high impact resistance

Extremely low trace metal content in LDPE makes it ideal for trace metal analysis.

02-893-4 Series

- Excellent chemical resistance to most acids, bases and alcohols make this a versatile bottle; suitable for shipping liquids
- Can be used in freezer to -100°C (-148°F) for long term storage
- Wide mouth is easy to fill
- Translucence allows for easy viewing of liquid levels
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate solutions

INCLUDES: Polypropylene screw caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	2103-0001	**02-893-4F**	12/32.45	6 Pk./129.60
2 oz. (60mL)	28mm	2103-0002	**02-893-4A**	12/33.55	6 Pk./134.10
4 oz. (125mL)	38mm	2103-0004	**02-893-4B**	12/40.15	6 Pk./160.40
8 oz. (250mL)	43mm	2103-0008	**02-893-4C**	12/60.20	6 Pk./241.00
16 oz. (500mL)	53mm	2103-0016	**02-893-4D**	12/81.20	4 Pk./216.50
32 oz. (1000mL)	63mm	2103-0032	**02-893-4E**	6/74.20	4 Pk./197.50

Thermo Scientific™ Nalgene™ Lab Quality Wide-Mouth Bottles; PPCO, PP Screw Closure

Used for chemicals, specimens and general use where autoclaving is required

- Excellent chemical resistance to most acids, bases and alcohol make this a general purpose bottle
- Translucence allows for easy viewing of liquid levels
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate your solutions
- Autoclavable/Leakproof†

02-893 Series

INCLUDES: Polypropylene screw closure

NOTES: Completely disengage threads or remove cap before autoclaving.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	28mm	2105-0001	**02-893AA**	12/38.00	6 Pk./144.70
2 oz. (60mL)	28mm	2105-0002	**02-893BB**	12/37.65	6 Pk./143.20
4 oz. (125mL)	38mm	2105-0004	**02-893A**	12/49.20	6 Pk./187.10
8 oz. (250mL)	43mm	2105-0008	**02-893B**	12/85.70	6 Pk./288.00
16 oz. (500mL)	53mm	2105-0016	**02-893C**	12/112.40	4 Pk./285.50
32 oz. (1000mL)	63mm	2105-0032	**02-893D**	6/110.70	4 Pk./286.00

Thermo Scientific™ Nalgene™ Heavy-Duty Vacuum Bottles: PPCO with PP Closure with Gasket, Lab Pack

Sturdy, thick-walled bottle; ideal for heavy-duty biotechnology lab use

Use as a waste aspirator bottle or as autoclavable vessel for scaleup activities in cell culture applications.

- Autoclavable and chemical resistant
- Can withstand repeated room temperature vacuum applications
- Rugged 53B and 83B caps of polypropylene with TPE gaskets

Left to right, front: 02-923-5, 02-923-3, 06-443A; back: 02-923-11

APPLICATIONS:
Use as a waste aspirator bottle or as autoclavable vessel for scaleup activities in cell culture applications.

INCLUDES: Polypropylene closures

NOTES:
Completely disengage threads or remove cap before autoclaving

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Price	Case of
250mL	53B	DS2126-0250	**02-923-3**	Cs. of 6/109.00	6/109.00
1L	53B	2126-1000	**06-443A**	Pk. of 6/334.00	4 Pk./846.50
2L	53B	2126-2000	**06-443B**	Pk. of 2/131.70	6 Pk./501.00
4L	83B	2126-4000	**02-923-5**	Ea./104.80	6/398.50
5L	83B	2126-5000	**02-923-11**	Ea./133.20	4/338.50

Thermo Scientific™ Nalgene™ Large Wide-Mouth Bottles with 100mm Screw Cap; PPCO, White PP Screw Closure

Ideal for applications with large volumes of dry materials and powders

11-815-12A,B

- Specifically designed for applications where large volumes require autoclaving
- Large cap makes it easy to access contents
- Excellent chemical resistance makes this bottle suitable for a wide variety of uses in the lab or field
- Linerless cap closes the bottle without a liner that can wrinkle, cause leaks and contaminate your solutions
- This bottle is not liquid leakproof
- Autoclavable

INCLUDES: 100mm screw caps

NOTES: Completely disengage threads or remove cap before autoclaving.

Capacity	Mfr. No.	Cat. No.	Each	Case of 6
0.5 gal. (2L)	2121-0005	**11-815-12A**	31.00	118.10
1 gal. (4L)	2121-0010	**11-815-12B**	41.15	156.50

Thermo Scientific™ Nalgene™ Wide-Mouth Bottles; PMP, PP Screw Closure

Transparent and autoclavable with chemical resistance similar to polypropylene

Designed to tolerate a wide range of temperatures for versatility in the lab.

02-924-20 Series

- Good chemical resistance to acids and bases make these bottles suitable for a wide range of solutions
- Better clarity than other bottles of similar chemical resistance
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate your solutions
- Autoclavable/Transparent/Leakproof†

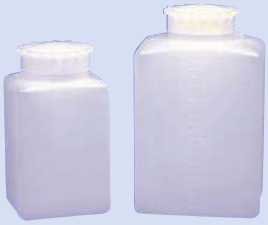
Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of 4	Case of
4 oz. (125mL)	33mm	2107-0004	**02-924-20A**	93.24	6 Pk./363.79
8 oz. (250mL)	43mm-415	2107-0008	**02-924-20C**	106.90	6 Pk./407.00
16 oz. (500mL)	48mm	2107-0016	**02-924-20E**	135.50	4 Pk./344.00
32 oz. (1000mL)	53mm	2107-0032	**02-924-20G**	182.10	4 Pk./462.50

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. Note: these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.

Plastic - Wide Mouths, Square

Fisherbrand® Graduated HDPE Rectangular Bottles

Save valuable shelf space — while providing greater materials storage



03-311-3B, -3C

Ideal for shipping and storing solid chemicals, liquids and pastes.

- Graduated in mL
- Wide mouth for convenient cleaning, sample filling and retrieval
- HDPE screw cap with LDPE inner security seal eliminates leaks
- Attachment holes on closure and bottle shoulder permit attachment of identification tag or custody seal

Capacity	Neck I.D.	Cat. No.	Pack of	Case of
0.87 oz. (25mL)	19mm	**03-311-3A**	10/18.90	----
1.7 oz. (50mL)	23mm	**03-311-3B**	10/23.90	10 Pk./200.00
3.37 oz. (100mL)	35mm	**03-311-3C**	10/40.25	10 Pk./339.00
8 oz. (250mL)	35mm	**03-311-3D**	10/44.35	10 Pk./373.50
16 oz. (500mL)	50mm	**03-311-3E**	6/38.15	6 Pk./192.70
32 oz. (1000mL)	60mm	**03-311-3F**	6/62.72	4 Pk./212.83
64 oz. (2000mL)	60mm	**03-311-3G**	6/126.47	2 Pk./213.87

Fisherbrand® HDPE Wide-Mouth Oblong Bottles

Made of high-density polyethylene

Wide mouth ideal for powders.

- Natural color

Left to right: 02-911-959, -948, -957, -954

With Foamed PE-Lined Caps

Capacity	Screw Cap Size	Cat. No.	Case of
2 oz. (60mL)	33-400mm	**02-911-977**	48/55.90
2 oz. (60mL)	33-400mm	**02-911-978**	950/728.00
4 oz. (125mL)	38-400mm	**02-911-952**	48/107.60
4 oz. (125mL)	38-400mm	**02-911-953**	500/492.50
5.5 oz. (160mL)	38-400mm	**02-911-954**	48/72.20
8 oz. (250mL)	43-400mm	**02-911-957**	48/88.40
8 oz. (250mL)	43-400mm	**02-911-956**	250/369.00
16 oz. (500mL)	43-400mm	**02-911-959**	168/314.00
16 oz. (500mL)	43-400mm	**02-911-960**	24/67.40
32 oz. (1000mL)	53-400mm	**02-911-948**	116/383.00
32 oz. (1000mL)	53-400mm	**02-911-949**	12/49.15
42 oz. (1250mL)	53-400mm	**02-911-950**	6/35.15

Bottles Only (Without Closures)

Capacity	Screw Cap Size	Cat. No.	Case of
5 oz. (160mL)	38mm-400	**02-912-106**	400/271.00
16 oz. (500mL)	43mm-400	**02-912-107**	160/236.50
32 oz. (1000mL)	53mm-400	**02-912-108**	116/253.50

Thermo Scientific™ Nalgene™ Square Bottles; PC, PP Screw Closure

Durable bottles for storage of aqueous solutions and short-term storage of media

Good in the freezer to -135°C. Excellent clarity helps you easily identify content levels. 2L size features molded-in hand grips.

- This product can be autoclaved in your lab for repeated sterilization and decontamination
- Square sides allow for good use of space in the freezer to -135°C (-275°F)
- Molded in graduations for ease in dispensing
- Linerless caps provide the ultimate in leakproof protection
- Autoclavable/Transparent/ Leakproof/Graduated

03-311-1 Series

INCLUDES:
Leakproof† box polypropylene screw caps

NOTES:
Remove cap or completely disengage threads before autoclaving. Autoclave empty. Repeated autoclaving will shorten bottle life.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	20mm	2015-0030	**03-311-1J**	12/78.70	8 Pk./399.00
2 oz. (60mL)	24mm	2015-0060	**03-311-1K**	----	8 Pk./530.00
4 oz. (125mL)	38-430mm	2015-0125	**03-311-1A**	6/74.50	8 Pk./378.00
8 oz. (250mL)	38-430mm	2015-0250	**03-311-1B**	6/87.50	8 Pk./443.50
16 oz. (500mL)	38-430mm	2015-0500	**03-311-1C**	4/81.00	6 Pk./308.00
32 oz. (1000mL)	38-430mm	2015-1000	**03-311-1D**	4/107.40	6 Pk./409.00
64 oz. (2000mL)	53Bmm	2015-2000	**03-309**	6/209.50	----

Thermo Scientific™ Nalgene™ Square Bottles, Polypropylene Copolymer with Polypropylene Closures

Repeatedly autoclavable and resistant to acids, alcohols, and bases

Mouths are wider than conventional narrow-mouth bottles for easier measuring and dispensing.

- Square sides allow for good use of space and an easy grip
- Graduated for ease of dispensing
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Autoclavable/Leakproof
- Translucent bottles provide visible liquid level
- Useful between 0° and 135°C (32° and 275°F)

03-310 Series

INCLUDES: Leakproof†, polypropylene screw caps

NOTES: Remove cap or completely disengage threads before autoclaving. Bottle neck design is protected by US Trademark Reg. No. 2857283. Square bottle with arched shoulders design is protected by US Trademark Reg. No. 2857279.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	20mm	2016-0030	**03-310**	12/35.42	6 Pk./138.13
2 oz. (60mL)	24mm	2016-0060	**03-310-1**	12/36.18	6 Pk./141.26
4 oz. (125mL)	38-430mm	2016-0125	**03-310-2**	12/50.50	6 Pk./192.10
8 oz. (250mL)	38-430mm	2016-0250	**03-310-3**	12/76.90	6 Pk./293.00
16 oz. (500mL)	38-430mm	2016-0500	**03-310-4**	12/108.00	4 Pk./274.50
32 oz. (1000mL)	38-430mm	2016-1000	**03-310-5**	6/87.90	4 Pk./223.50

Thermo Scientific™ Nalgene™ Large Square HDPE Bottles

Molded-in handgrips provide greater convenience and safety when pouring

Useful for collecting, storing and transporting dry chemicals, environmental samples, reagents and distilled water.

- Good for freezing to -100°C (-148°F)
- Excellent chemical resistance to most acids, bases and alcohols
- Square shape saves space, handles easily
- Wide mouth gives easy access
- Polypropylene cap included
- Not liquid leakproof

02-925-4

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of 6
1 gal. (4L)	100mm	2123 0010	**02-925-4**	40.55	159.90

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*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nalgene™ Square Bottles; HDPE, PP Screw Closure

Molded-in graduations and drip-proof spout for easier measuring and dispensing

Square sides allow for good use of space and an easy grip.

- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Graduated for ease of dispensing
- Leakproof/Graduated
- Can be used to -100°C (-148°F)
- Not autoclavable

03-311-1 Series

INCLUDES:
Leakproof† Polypropylene Screw Caps

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
1 oz. (30mL)	20mm	2018-0030	**03-311-1N**	12/27.24	6 Pk./106.32
2 oz. (60mL)	24mm	2018-0060	**03-311-1P**	12/28.35	6 Pk./107.90
4 oz. (125mL)	38-430mm	2018-0125	**03-311-1Q**	12/34.65	6 Pk./131.70
8 oz. (250mL)	38-430mm	2018-0250	**03-311-1R**	12/52.30	6 Pk./198.80
16 oz. (500mL)	38-430mm	2018-0500	**03-311-1S**	12/72.00	4 Pk./182.70
32 oz. (1000mL)	38-430mm	2018-1000	**03-311-1T**	6/69.00	4 Pk./175.00

Thermo Scientific™ Nalgene™ Autoclavable Large Wide-Mouth Square Bottle; PPCO, PP Screw Closures

Ideal for autoclaving and storing contaminated slides and other small lab equipment. Excellent for collecting, storing and transporting dry chemicals and environmental samples

- With polypropylene screw closures
- Ideal for storing contaminated slides and other small lab equipment
- Space-saving bottle design features molded-in handgrips for greater convenience and safety when pouring
- Wide mouth makes it excellent for collecting, storing and transporting dry chemicals and environmental samples
- This bottle is not liquid leakproof
- Autoclavable

03-313

NOTES: Completely disengage threads or remove cap before autoclaving.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each	Case of 6
1 gal. (4L)	100mm	2122-0010	**03-313**	46.90	186.90

Thermo Scientific™ Nalgene™ Amber Rectangular Bottles, Amber HDPE

Help protect light-sensitive liquids or dry materials

- Take up less shelf space than traditional round bottles
- HDPE bottles have a sturdy wall construction with straight sides and a wide mouth for easy filling
- Excellent chemical resistance to most acids, bases and alcohols makes this container great for sampling, shipping or storing liquids or dry materials that are sensitive to UV light
- Guaranteed leakproof†

03-924-10 Series

COMPLIANCE:
Meet U.S. Pharmacopeia XXIII requirements for maximum light transmission.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
4 oz. (125mL)	28mm	2009-0004	**02-924-10A**	12/54.40	6 Pk./217.50
8 oz. (250mL)	38mm	2009-0008	**02-924-10C**	12/79.20	6 Pk./301.50
16 oz. (500mL)	48mm	2009-0016	**02-924-10E**	12/110.70	4 Pk./281.00
32 oz. (1000mL)	53mm	2009-0032	**02-924-10G**	6/125.20	4 Pk./318.00
64 oz. (2000mL)	63mm	2009-0064	**02-924-10J**	4/129.20	3 Pk./246.00

Thermo Scientific™ Nalgene™ Rectangular Bottles, High-Density Polyethylene; Polypropylene Screw Closure

Excellent for sampling, transporting or storing liquids or dry materials

- Rectangular shape takes up less shelf space than traditional round bottles
- HDPE bottles have a sturdy wall construction with straight sides and a wide mouth for easy filling
- Excellent chemical resistance to most acids, bases and alcohols make these excellent containers to protect your valuable samples
- Rectangular shape makes it easy to fit in freezer for storage up to -100°C (-148°F)
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Leakproof† box

02-924-5 Series

INCLUDES: Polypropylene screw caps

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
4 oz. (125mL)	28mm	2007-0004	**02-924-5A**	12/36.75	6 Pk./139.70
8 oz. (250mL)	38mm	2007-0008	**02-924-5C**	12/53.30	6 Pk./203.00
16 oz. (500mL)	48mm	2007-0016	**02-924-5E**	12/82.40	4 Pk./209.00
32 oz. (1000mL)	53mm	2007-0032	**02-924-5G**	6/95.10	4 Pk./241.50
64 oz. (2000mL)	63mm	2007-0064	**02-924-5J**	4/109.80	3 Pk./198.70

Thermo Scientific™ Nalgene™ Wide-Mouth Square Bottles; HDPE with PP Closure, Bulk Pack

Designed for demanding lab use

02-923-7 Series

ORDERING INFORMATION:
Bottles and closures are packed in separate polybags within the same carton.

COMPLIANCE:
Manufactured in compliance with ISO13485:2003 quality requirements.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of
2 oz. (60mL)	28mm	312114-0002	**02-923-74**	1000/1439.00
6 oz. (175mL)	38mm	312114-0006	**02-923-75**	250/600.00
8 oz. (250mL)	43mm	312114-0008	**02-923-73**	250/809.00
16 oz. (500mL)	53mm	312114-0016	**02-923-72**	125/571.50
32 oz. (1000mL)	63mm	312114-0032	**02-923-105**	50/343.50

Thermo Scientific™ Nalgene™ Wide-Mouth Square Bottle, High-Density Polyethylene; Polypropylene Screw Closures

Square shape saves shelf space

03-312 Series

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
2 oz. (60mL)	28mm	2114-0002	**03-312AA**	12/36.35	6 Pk./138.30
6 oz. (175mL)	38mm	2114-0006	**03-312A**	12/58.30	6 Pk./222.00
8 oz. (250mL)	43mm	2114-0008	**03-312B**	12/77.80	6 Pk./296.50
16 oz. (500mL)	53mm	2114-0016	**03-312C**	12/113.30	4 Pk./287.50
32 oz. (1000mL)	63mm	2114-0032	**03-312D**	6/82.40	4 Pk./209.00

Thermo Scientific™ Nalgene™ Square Polypropylene Copolymer Wide-Mouth Bottles

Wide mouth for easy cleaning, sample filling and retrieval

- Resistant to acids, alcohols and bases
- Contact-clear bottle provides visible liquid level
- Square design allows for good use of space and provides a large are for labeling
- Linerless caps provide the ultimate in leakproof protection without the use of liner that can wrinkle, cause leaks or contaminate your reagents
- Autoclavable/leakproof†

03-311-2B, -2C

NOTES:
Completely disengage threads or remove cap before autoclaving.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Pack of	Case of
2 oz. (60mL)	28mm	2110-0002	**03-311-2A**	72/153.00	----
6 oz. (175mL)	38mm	2110-0006	**03-311-2B**	72/235.00	----
8 oz. (250mL)	43mm	2110-0008	**03-311-2C**	72/331.00	----
16 oz. (500mL)	53mm	2110-0016	**03-311-2D**	12/124.40	4 Pk./316.00
32 oz. (1000mL)	63mm	2110-0032	**03-311-2E**	24/227.50	----

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. Note: these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.

Corning™ Square Polycarbonate Storage Bottles

Ideal for storage, mixing or sampling

Easier to handle and require less space on the shelf or in the autoclave.

- Polycarbonate resin makes them more break resistant than other glass or plastic bottles
- 45mm size cap provides larger access for liquid transfer
- Screened graduations are easier to see when compared to molded
- Sterile; individually packaged
- Large marking spot
- Linear tear packaging
- Can be autoclaved once at 121°C and 15psi

13-700-412, -402, -400, -401

APPLICATIONS:
Pharmaceutical and cell culture laboratories, academic institutions, life science applications and any application that requires storage, mixing or sampling.

INCLUDES:
Linerless, one-piece, autoclavable orange GL45 threaded polypropylene plug-seal caps

NOTES:
Repeated autoclaving weakens polycarbonate and is not recommended.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of 24
4.5 oz. (150mL)	45mm	431430	**13-700-400**	170.00
7.5 oz. (250mL)	45mm	431431	**13-700-401**	230.00
15 oz. (500mL)	45mm	431432	**13-700-412**	289.00
30 oz. (1L)	45mm	431433	**13-700-402**	386.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Specialty - BOD

Kimax™-35 300mL BOD Bottles

For sampling and incubation of aqueous samples for biochemical oxygen demand (BOD) analysis

Flared mouth forms a water seal to prevent air from being drawn into the bottle during incubation, while shoulder radius provides an interior shape that sweeps entrapped air out of the stopper opening.

- Type 1, Class B borosilicate glass
- Available numbered and unnumbered
- With glass stopper unless otherwise noted
- Optional snap lid secures stopper in bottle and reduces evaporation of water seal during incubation (sold separately, 02-939)

02-885A shown with optional 02-939 snap lid

ORDERING INFORMATION:
Size: 2.75 dia. × 6.5"H (69 × 165mm); neck I.D. approximately 0.66" (16.7mm).

COMPLIANCE: Conform to ASTM™ E 438

No. Sequence	Mfr. No.	Cat. No.	Case of 24
With Stopper			
01-24	15070 01	**02-885B**	413.00
25-48	15070 25	**02-885C**	410.26
Unnumbered	15070 00	**02-885A**	390.82
Without Stopper			
Unnumbered	15070G 00	**02-940-1A**	334.00

Wheaton™ BOD Bottles

Available with either glass robotic or pennyhead stoppers

Bottles

- Borosilicate glass, 60 or 300mL, numbered or unnumbered
- With permanent marking areas; numbered versions are also bar-coded
- Specially designed shoulder radius sweeps all air from inside the bottle during filling
- 300mL bottles are recommended for the five-day BOD test referenced in *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, 5210B, 1992

Stoppers

- Interchangeable borosilicate glass stoppers have tapered bottoms that also prevent air entrapment
- Flared mouth of bottle forms a water seal around stoppers that prevents air from being drawn in during incubation
- Stopper joint is compatible with the probes of the leading BOD and DO meters
- Glass robotic stoppers are compatible with most robotic systems

02-926-27

02-926-8

APPLICATIONS:
Use to incubate diluted samples of sewage, sewage effluents, polluted waters and industrial wastes to determine the amount of oxygen required during stabilization of decomposable organic matter by aerobic biochemical action.

ORDERING INFORMATION:
Dimensions: 300mL bottles are 2.75 dia. × 6.5" high (69 × 165mm); 60mL bottles are 1.75 dia. × 4.5" high (43 × 115mm).

Capacity	No. Sequence	Mfr. No.	Cat. No.	Case of
With Robotic Stoppers				
300mL	1–24	227497-01	**02-926-27**	24/380.11
300mL	25–48	227497-02	**02-926-28**	24/389.50
300mL	49–72	227497-03	**02-926-29**	24/395.00
300mL	73–96	227497-04	**02-926-30**	24/395.00
300mL	97–120	227497-05	**02-926-31**	24/395.00
300mL	121–144	227497-06	**02-926-32**	24/390.00
300mL	145–168	227497-07	**02-926-33**	24/395.00
300mL	169–192	227497-08	**02-926-34**	24/395.00
300mL	193–216	227497-09	**02-926-35**	24/390.00
300mL	217–240	227497-10	**02-926-36**	24/395.00
300mL	241–264	227497-11	**02-926-37**	24/390.00
300mL	265–288	227497-12	**02-926-38**	24/395.00
300mL	289–312	227497-13	**02-926-39**	24/395.00
300mL	313–336	227497-14	**02-926-40**	24/395.00
300mL	337–360	227497-15	**02-926-41**	24/395.00
300mL	361–384	227497-16	**02-926-42**	24/389.55
300mL	385–408	227497-17	**02-926-43**	24/390.00
300mL	409–432	227497-18	**02-926-44**	24/395.00
300mL	Unnumbered	227497-00	**02-926-26**	24/362.80
60mL	1–36	227494-01	**02-926-13**	36/961.00
60mL	37–72	227494-02	**02-926-14**	36/936.89
60mL	Unnumbered	227494-00	**02-926-12**	36/806.00
With Pennyhead Stoppers†				
300mL	1–24	227497-01G	**02-926-8**	24/389.50
300mL	25–48	227497-02G	**02-926-9**	24/395.00
300mL	49–72	227497-03G	**02-926-11**	24/395.00
300mL	73–96	227497-04G	**02-926-25**	24/395.00
300mL	97–120	227497-05G	**02-926-90**	24/395.00
300mL	121–144	227497-06G	**02-926-91**	24/395.00
300mL	145–168	227497-07G	**02-926-92**	24/395.50
300mL	169–192	227497-08G	**02-926-93**	24/395.50
300mL	193–216	227497-09G	**02-926-94**	24/395.00
300mL	217–240	227497-10G	**02-926-95**	24/395.00
300mL	241–264	227497-11G	**02-926-96**	24/395.50
300mL	Unnumbered	227497-00G	**02-926-7A**	24/366.99

ON THE WEB...

Looking for Babcock Bottles?

Visit www.fishersci.com and search for Babcock Bottles

Specialty - Environmental

Glass - Boston Rounds

Fisherbrand® Certified Low-Particulate Clear Boston Rounds

Narrow-mouth bottles with attached polyvinyl-lined closures

02-912 Series Certified Low Particulate

- With PTFE-lined caps
- Containers and caps are cleaned to five particles or less per milliliter at 0.5 microns with USP Purified Water or water for injection in a Class 100/10 cleanroom

ORDERING INFORMATION:
Custom processing, packaging and certification available by special request.

CERTIFICATIONS:
Certificate of Analysis is included.

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	22mm-400	**02-911-889**	24/395.87
8 oz. (250mL)	24mm-400	**02-911-892**	12/203.40
16 oz. (500mL)	28mm-400	**02-911-879**	12/247.10
32 oz. (1000mL)	33mm-400	**02-911-914**	12/284.55

Fisherbrand® Custom Cleaned Clear Boston Rounds

Containers and caps are noncertified and precleaned with USP purified water

- With attached PTFE-faced, PE-lined caps
- Containers and caps are noncertified and precleaned with USP Purified Water for visible particulates in a clean process area

ORDERING INFORMATION:
Custom packaging and certification available upon request.

02-912 Series Certified Low Particulate

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	20mm-400	**02-912-009**	48/130.05
2 oz. (60mL)	20mm-400	**02-912-010**	24/78.95
4 oz. (125mL)	22mm-400	**02-912-011**	24/94.35
8 oz. (250mL)	24mm-400	**02-912-012**	12/55.08
16 oz. (500mL)	28mm-400	**02-912-013**	12/77.62
32 oz. (1000mL)	33mm-400	**02-912-014**	12/109.65

Fisherbrand® Certified Clean Amber Boston Rounds

Available with PTFE-faced, PE-lined caps

- Cleaned per EPA guidelines for semi-volatiles, pesticides, PCBs and metals

CERTIFICATIONS:
Certificate of Analysis is attached to each lot.

02-911 Series Amber Boston Rounds

Capacity	Screw Cap Size	Cat. No.	Case of 12
8 oz. (250mL)	24mm-400	**02-911-928**	39.65
34 oz. (1000mL)	33mm-400	**02-911-833**	69.70

ON THE WEB...

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Prices subject to change.

Thermo Scientific™ Narrow Mouth Boston Round Clear Glass Bottles

For water sampling

Includes:

Certified bottles come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each bottle individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed bottles are processed in the same manner as certified bottles and come with all the features of certified bottles, but bottles are not barcoded, and CofA is not included
- Unprocessed bottles are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

Clear Boston Rounds

APPLICATIONS:
Water sampling

COMPLIANCE:
Certified and Processed bottles meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Boston Round Style Clear Glass Bottles

Capacity	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 12
4 oz. (125mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	22-400	329-0125	**05-719-159**	39.45
8 oz. (250mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	24-414	329-0250	**05-719-163**	45.25
16 oz. (500mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	28-400	329-0500	**05-719-170**	57.00
32 oz. (950mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-400	329-1000	**05-719-90**	73.80
4 oz. (125mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	22-400	229-0125	**05-719-160**	34.50
8 oz. (250mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	24-414	229-0250	**05-719-164**	39.30
16 oz. (500mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	28-400	229-0500	**05-719-171**	49.15
32 oz. (950mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-400	229-1000	**05-719-86**	63.80
4 oz. (125mL)	Unprocessed	None	PTFE-lined	22-400	129-0125	**05-719-161**	28.40
8 oz. (250mL)	Unprocessed	None	PTFE-lined	24-414	129-0250	**05-719-165**	33.45
16 oz. (500mL)	Unprocessed	None	PTFE-lined	28-400	129-0500	**05-719-172**	41.60
32 oz. (950mL)	Unprocessed	None	PTFE-lined	33-400	129-1000	**05-719-82**	54.30

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ON THE WEB...

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Thermo Scientific™ Narrow Mouth Boston Round Amber Glass Bottle

For water sampling

05-719 Series

Includes:

Certified bottles come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each bottle individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed bottles are processed in the same manner as certified bottles and come with all the features of certified bottles, but bottles are not barcoded, and CofA is not included
- Unprocessed bottles are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

COMPLIANCE:

Certified and processed bottles meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Volume	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 12
4 oz. (125mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	22-400	349-0125	**05-719-176**	38.80
8 oz. (250mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	24-414	349-0250	**05-719-183**	43.95
16 oz. (500mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	28-400	349-0500	**05-719-78**	54.60
32 oz. (1000mL)	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-430	349-1000	**05-719-91**	72.60
4 oz. (125mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	22-400	249-0125	**05-719-177**	34.00
8 oz. (250mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	24-414	249-0250	**05-719-64**	38.60
16 oz. (500mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	28-400	249-0500	**05-719-75**	48.35
32 oz. (1000mL)	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-430	249-1000	**05-719-87**	62.80
4 oz. (125mL)	Unprocessed	None	PTFE-lined	22-400	149-0125	**05-719-178**	28.65
8 oz. (250mL)	Unprocessed	None	PTFE-lined	24-414	149-0250	**05-719-184**	32.85
16 oz. (500mL)	Unprocessed	None	PTFE-lined	28-400	149-0500	**05-719-70**	40.90
32 oz. (1000mL)	Unprocessed	None	PTFE-lined	33-430	149-1000	**05-719-83**	53.40

LabReporter
QUARTERLY MAGAZINE

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Thermo Scientific™ Narrow-Mouth Septa Bottles; Type III Glass Bottle, White PP Open Top Closure with PTFE/Silicone Septum

For water sampling

- Type III soda-lime glass bottle, clear or amber
- Amber bottles recommended for light-sensitive analytes
- White polypropylene cap with unbonded PTFE-faced silicone septa (1L size septum is bonded)
- Caps assembled onto bottles
- Narrow-mouth design ideal is ideal for water samples

Includes:

Certified bottles come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each bottle individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider helps protect bottles from breakage; requires additional over-pack for shipping
- Unprocessed bottles are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; requires additional over-pack for shipping

05-719 Series

COMPLIANCE:
Certified bottles meet or exceed EPA performance based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 12
4 oz. (125mL)	Clear glass bottle	Certified	VOA	Open top with unbonded septa	22-410	S349-0125	**05-719-180**	43.25
8 oz. (250mL)	Amber glass bottle	Certified	VOA	Open top with unbonded septa	24-414	S349-0250	**05-719-186**	48.55
16 oz. (250mL)	Clear glass bottle	Certified	VOA	Open top with unbonded septa	24-414	S329-0250	**05-719-167**	49.75
32 oz. (1000mL)	Amber glass bottle	Certified	VOA	Open top with bonded septa	33-430	S349-1000	**05-721-101**	71.20
4 oz. (125mL)	Amber glass bottle	Processed	VOA	Open top with unbonded septa	24-414	S249-0125	**05-719-181**	34.35
8 oz. (250mL)	Amber glass bottle	Processed	VOA	Open top with unbonded septa	24-414	S249-0250	**05-719-187**	39.25
16 oz. (250mL)	Clear glass bottle	Processed	VOA	Open top with unbonded septa	24-414	S229-0250	**05-719-168**	39.30
4 oz. (125mL)	Amber glass bottle	Unprocessed	None	Open top with unbonded septa	22-410	S149-0125	**05-719-182**	32.30
8 oz. (250mL)	Amber glass bottle	Unprocessed	None	Open top with unbonded septa	24-414	S149-0250	**05-719-188**	33.45
8 oz. (250mL)	Clear glass bottle	Unprocessed	None	Open top with unbonded septa	24-414	S129-0250	**05-719-169**	36.85

Thermo Scientific™ Narrow-Mouth Closed Top VOA Bottles; Type III Glass Bottle, White PP Open top Closure PTFE Liner

Recommended for UV light-sensitive samples

- Type III soda-lime amber glass bottle; recommended for light-sensitive analytes
- White polypropylene cap with bonded PTFE-liner that can't fall out
- Caps assembled onto bottles
- Narrow-mouth design ideal is for water samples

Includes:

Certified bottles come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each bottle individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider helps protect bottles from breakage; requires additional over-pack for shipping

APPLICATIONS: For UV light-sensitive water samples

COMPLIANCE: Certified bottles meet or exceed EPA performance based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 12
32 oz. (1L)	Amber glass bottle	Certified	VOA	Closed top with PTFE liner	33-430	V349-1000	**05-719-489**	82.50
32 oz. (1L)	Amber glass bottle	Processed	VOA	Closed top with PTFE liner	33-430	V249-1000	**05-719-490**	65.60

Thermo Scientific™ TOC Certified Containers

Certified to contribute < 10ppb or < 20ppb TOC as background

- Available in several sizes and styles of containers, including the popular 40mL autosampler vials cleaned, certified and ready to use
- Includes Certificate of Analysis

APPLICATIONS:
TOC Testing

12-100 Series

Description	O.D. × H	Closure Size	Mfr. No.	Cat. No.	Case of
40mL clear vial open top, welded septum w/cap cover, double box, TOC low level	1.125" × 3.75"	24-414	40C-TOC/DB/LL	**12-100-370**	144/769.50
40mL clear vial open top, welded septum w/cap cover, TOC Low Level	1.125" × 3.75"	24-414	40C-TOC/LL	**12-100-250**	72/503.00
1L (32 oz.) clear boston round low particle	3.75" × 8.50"	33-430	1000C/TOC	**12-100-403**	12/136.37
125mL (4 oz.) amber boston round Closed top, welded septum TOC <20ppb	1.875" × 4.375"	22-400	S114-125A/TOC	**12-100-375**	12/148.60
250mL (8 oz.) clear boston round open top, welded septum TOC <20ppb	2.375" × 5.375"	24-414	S114-250C/TOC	**12-100-373**	24/226.50
250mL (8oz.) amber boston round open top, welded septum TOC <20 ppb	2.375" × 5.375"	24-414	S114-250A/TOC	**12-100-374**	12/110.40
25 × 150 60mL culture tube open top, TOC <20ppb	0.938" × 6.00"	24-414	SCT-25150/TOC	**12-101-147**	144/980.22
16 × 125 18mL culture tube round bottom Low Level TOC <10ppb	0.563" × 5.00"	15-425	CT18-TOC/LL	**12-100-376**	255/860.50

Glass - French Squares

Fisherbrand® Certified Low-Particulate Clear French Squares

With PTFE-lined caps

- Containers and caps are cleaned to five particles or less per milliliter at 0.5 microns with USP Purified Water or water for injection in a Class 100/10 cleanroom

ORDERING INFORMATION:
Custom processing, packaging and certification are available by special request.

CERTIFICATIONS:
Certificate of Analysis is included with each case.

02-911-893

Capacity	Screw Cap Size	Cat. No.	Case of
4 oz. (125mL)	33mm-400	**02-911-890**	24/359.98
8 oz. (250mL)	43mm-400	**02-911-893**	24/423.44
32 oz. (1000mL)	58mm-400	**02-911-885**	12/471.00

Glass - Gradated

Fisherbrand® Certified Low-Particulate Graduated Valumetric™ Bottles

With polyvinyl caps

- With PTFE-lined or PTFE-faced PE-lined caps
- Containers and caps are cleaned to five particles or less per milliliter at 0.5 microns with USP Purified Water or water for injection in a Class 100/10 cleanroom
- Custom processing, packaging and certification available by special request

CERTIFICATIONS:
A Certificate of Analysis is included with each case.

02-911-866, 02-911-880, 02-912-040

Capacity	Screw Cap Size	Cat. No.	Case of
With PTFE Caps			
1 oz. (30mL)	33mm-400	**02-911-865**	48/724.12
2 oz. (60mL)	38mm-400	**02-911-866**	48/774.06
4 oz. (125mL)	48mm-400	**02-912-039**	24/405.00
8 oz. (250mL)	58mm-400	**02-912-040**	24/500.50
16 oz. (500mL)	70mm-400	**02-911-880**	24/552.00
With PTFE-faced PE-lined Caps			
4 oz. (125mL)	48mm-400	**02-912-314**	24/194.60
8 oz. (250mL)	58mm-400	**02-912-315**	24/184.50
16 oz. (500mL)	70mm-400	**02-912-316**	24/243.00

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Glass - Jars

Fisherbrand® Certified Clean Clear Glass Straight-Sided Jars

With attached caps

- Cleaned per EPA guidelines for Semi-Volatiles, Pesticides, PCBs and Metals

CERTIFICATIONS:
Certificate of Analysis is attached to each lot.

Capacity	Screw Cap Size	Cat. No.	Case of
2 oz. (60mL)	53-400mm	**02-912-309**	24/223.38
4 oz. (125mL)	58-400mm	**02-912-310**	24/230.01
8 oz. (250mL)	70-400mm	**02-912-311**	24/170.14
16 oz. (500mL)	89-400mm	**02-912-312**	12/162.89
32 oz. (1000mL)	89-400mm	**02-912-313**	12/213.18

02-912 Series

Thermo Scientific™ Wide Mouth Clear Short Profile Jars

For use in soil, sludge and sediment sampling

Clear Type III soda-lime glass jar.

- PTFE-lined white polypropylene closed top cap
- Sizes range from 60mL to 2000mL
- Closures assembled on bottles

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each jar individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of certified jars, but jars are not barcoded, and CofA is not included
- Unprocessed jars are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

05-719 Series

APPLICATIONS:
Soil, sludge and sediment sampling

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Short Wide-Mouth Clear Glass Jars and Bottles

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. × O.D. × Height	Closure Size	Replacement Closure/ Liner	Mfr. No.	Cat No.	Case of
60mL	74mL	Unprocessed	1.75" × 2.13" × 1.81"	53-400	B267-5300/278-0053	120-0060	**05-719-258**	24/80.10
125mL	137mL	Unprocessed	1.81" × 2.38" × 2.63"	58-400	B267-5800/278-0058	120-0125	**05-719-53**	24/87.80
250mL	272mL	Unprocessed	2.06" × 2.88" × 3.38"	70-400	B267-7000/278-0070	120-0250	**05-719-59**	12/48.35
500mL	476mL	Unprocessed	3" × 3.5" × 3.75"	89-400	B267-8900/278-0089	120-0500	**05-719-67**	12/52.50
2000mL	1930mL	Unprocessed	3.75" × 5.63" × 6.25"	110-400	B267-1100/278-0110	120-2000	**05-719-277**	6/47.39
60mL	74mL	Processed/1 & 2	1.75" × 2.13" × 1.81"	53-400	B267-5300/278-0053	220-0060	**05-719-51**	24/93.90
125mL	137mL	Processed/1 & 2	1.81" × 2.38" × 2.63"	58-400	B267-5800/278-0058	220-0125	**05-719-55**	24/103.30
250mL	272mL	Processed/1 & 2	2.06" × 2.88" × 3.38"	70-400	B267-7000/278-0070	220-0250	**05-719-61**	12/56.90
500mL	476mL	Processed/1 & 2	3" × 3.5" × 3.75"	89-400	B267-8900/278-0089	220-0500	**05-719-72**	12/61.80
2000mL	1930mL	Processed/1 & 2	3.75" × 5.63" × 6.25"	110-400	B267-1100/278-0110	220-2000	**05-719-276**	6/58.30
60mL	74mL	Certified/1 & 2	1.75" × 2.13" × 1.81"	53-400	B267-5300/278-0053	320-0060	**05-719-257**	24/108.10
125mL	137mL	Certified/1 & 2	1.81" × 2.38" × 2.63"	58-400	B267-5300/278-0058	320-0125	**05-719-57**	24/119.10
250mL	272mL	Certified/1 & 2	2.06" × 2.88" × 3.38"	70-400	B267-7000/278-0070	320-0250	**05-719-65**	12/65.50
500mL	476mL	Certified/1 & 2	3" × 3.5" × 3.75"	89-400	B267-8900/278-0089	320-0500	**05-719-76**	12/70.80
2000mL	1930mL	Certified/1 & 2	3.75" × 5.63" × 6.25"	110-400	B267-1100/278-0110	320-2000	**05-719-275**	6/66.90

Thermo Scientific™ Wide Mouth Amber Short Profile Jars

Ideal for soil, sludge and sediment sampling

- Amber Type III soda-lime glass jar; recommended for light sensitive samples
- PTFE-lined white polypropylene closed top cap
- Sizes range from 60mL to 250mL
- Closures assembled on bottles (except 140-0250NC, cap not included)

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each jar individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of certified jars, but jars are not barcoded, and CofA is not included
- Unprocessed jars are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

APPLICATIONS:
Soil, sludge and sediment sampling

05-719 Series

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 24
2 oz. (60mL)	Amber Glass Short Jar	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	51-400	340-0060	**05-719-14**	106.90
4 oz. (120mL)	Amber Glass Short Jar	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	58-400	340-0120	**05-719-521B**	58.30
2 oz. (60mL)	Amber Glass Short Jar	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	51-400	240-0060	**05-719-520A**	59.80
4 oz. (120mL)	Amber Glass Short Jar	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	58-400	240-0120	**05-719-520B**	82.90
2 oz. (60mL)	Amber Glass Short Jar	Unprocessed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	51-400	140-0060	**05-719-519A**	90.80
4 oz. (120mL)	Amber Glass Short Jar	Unprocessed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	58-400	140-0120	**05-719-519B**	48.20
8 oz. (250mL)	Amber Glass Short Jar	Unprocessed	Semi-VOA, pesticides, PCBs, metals	No closure	70-400	140-0250NC	**05-721-104**	42.95

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Prices subject to change.

Thermo Scientific™ Wide Mouth Clear Tall Profile Jars

For use in soil, sludge and sediment sampling

- Clear Type III soda-lime glass jar
- PTFE-lined white polypropylene closed top cap
- Sizes range from 125mL to 4000mL
- Closures assembled on bottles

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each jar individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of certified jars, but jars are not barcoded, and CofA is not included
- Unprocessed jars are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

APPLICATIONS:
Soil, sludge and sediment sampling

05-719 Series

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. × O.D. × Height	Closure Size	Replacement Closure/ Liner	Mfr. No.	Cat. No.	Case of
125mL	125mL	Unprocessed	1.44" × 1.88" × 4"	48-400	B267-4800/278-0048	121-0125	**05-719-54**	12/45.00
250mL	251mL	Unprocessed	1.81" × 2.25" × 5"	58-400	B267-5800/278-0058	121-0250	**05-719-271**	12/49.10
500mL	482mL	Unprocessed	2" × 2.63" × 6.63"	63-400	B267-6300/278-0063	121-0500	**05-719-68**	12/62.40
1000mL	972mL	Unprocessed	3" × 3.63" × 6.5"	89-400	B267-8900/278-0089	121-1000	**05-719-81**	12/65.50
2000mL	2000mL	Unprocessed	2.75" × 4.88" × 8.5"	83-400	Replacement Not Available	121-2000	**05-719-281A**	6/48.35
4000mL	3900mL	Unprocessed	3.75" × 6" × 9.88"	110-400	B267-1100/278-0010	121-4000	**05-719-281**	4/67.10
125mL	125mL	Processed/1 & 2	1.44" × 1.88" × 4"	48-400	B267-4800/278-0048	221-0125	**05-719-56**	12/53.00
250mL	251mL	Processed/1 & 2	1.81" × 2.25" × 5"	58-400	B267-5800/278-0058	221-0250	**05-719-62**	12/57.70
500mL	482mL	Processed/1 & 2	2" × 2.63" × 6.63"	63-400	B267-6300/278-0063	221-0500	**05-719-73**	12/62.60
1000mL	972mL	Processed/1 & 2	3" × 3.63" × 6.5"	89-400	B267-8900/278-0089	221-1000	**05-719-85**	12/76.50
2000mL	2000mL	Processed/1	2.75" × 4.88" × 8.5"	83-400	Replacement Not Available	221-2000	**05-719-281B**	6/59.30
4000mL	3900mL	Processed/1	3.75" × 6" × 9.88"	110-400	B267-1100/278-0110	221-4000	**05-719-280**	4/78.20
125mL	125mL	Certified/1 & 2	1.44" × 1.88" × 4"	48-400	B267-4800/278-0048	321-0125	**05-719-58**	12/61.40
250mL	251mL	Certified/1 & 2	1.81" × 2.25" × 5"	58-400	B267-5800/278-0058	321-0250	**05-719-270**	12/66.60
500mL	482mL	Certified/1 & 2	2" × 2.63" × 6.63"	63-400	B267-6300/278-0063	321-0500	**05-719-273**	12/71.70
1000mL	972mL	Certified/1 & 2	3" × 3.63" × 6.5"	89-400	B267-8900/278-0089	321-1000	**05-719-89**	12/87.90
2000mL	2000mL	Certified/1	2.75" × 4.88" × 8.5"	83-400	Replacement Not Available	321-2000	**05-719-275A**	6/68.00
4000mL	3900mL	Certified/1	3.75" × 6" × 9.88"	110-400	B267-1100/278-0010	321-4000	**05-719-279**	4/89.80

Thermo Scientific™ Wide-Mouth Closed Top VOA Jars; Type III Glass Bottle, White PP Closed Top Cap with PTFE Liner

For water sampling

05-719 Series

- Type III soda-lime glass bottle, clear or amber
- Amber jars are recommended for light-sensitive analytes
- White polypropylene cap with bonded PTFE liner
- Caps assembled onto bottles
- Wide mouth design is ideal for soil samples and viscous liquids

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each bottle individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider helps protect jars from breakage; requires additional over-pack for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of Certified jars, but jars are not barcoded, and CofA is not included

APPLICATIONS:
Soil sampling

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of
4 oz. (125mL)	Clear Short SS Jar	Certified	VOA	All closed cap PTFE-lined	58-400	V320-0125	**05-719-500**	24/138.80
4 oz. (125mL)	Clear Tall SS Jar	Certified	VOA	All closed cap PTFE-lined	58-400	V321-0125	**05-719-471**	12/141.60
8 oz. (250mL)	Clear Short SS Jar	Certified	VOA	All closed cap PTFE-lined	70-400	V320-0250	**05-719-481**	12/75.50
8 oz. (250mL)	Clear Tall SS Jar	Certified	VOA	All closed cap PTFE-lined	58-400	V321-0250	**05-719-473**	12/76.40
16 oz. (500mL)	Clear Short SS Jar	Certified	VOA	All closed cap PTFE-lined	89-400	V320-0500	**05-719-483**	12/82.10
32 oz. (1000mL)	Clear Tall SS Jar	Certified	VOA	All closed cap PTFE-lined	89-400	V321-1000	**05-719-475**	12/102.10
32 oz. (950mL)	Amber Packer Jar	Certified	VOA	All closed cap PTFE-lined	53-400	V341-0950	**05-719-487**	12/99.90
4 oz. (125mL)	Clear Short SS Jar	Processed	None	All closed cap PTFE-lined	58-400	V220-0125	**05-719-499**	24/120.70
4 oz. (125mL)	Clear Tall SS Jar	Processed	None	All closed cap PTFE-lined	58-400	V221-0125	**05-719-472**	12/121.90
8 oz. (250mL)	Clear Short SS Jar	Processed	None	All closed cap PTFE-lined	70-400	V220-0250	**05-719-482**	12/64.86
16 oz. (500mL)	Clear Short SS Jar	Processed	None	All closed cap PTFE-lined	89-400	V220-0500	**05-719-484**	12/71.60
32 oz. (1000mL)	Clear Tall SS Jar	Processed	None	All closed cap PTFE-lined	89-400	V221-1000	**05-719-476**	12/87.80
32 oz. (950mL)	Amber Packer Jar	Processed	None	All closed cap PTFE-lined	53-400	V241-0950	**05-719-488**	12/89.80

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Thermo Scientific™ Wide-Mouth Glass Packers; Amber Type III Glass Jar with PTFE-Lined White PP Cap

For use in soil, sludge and sediment sampling

- Amber Type III soda-lime glass jar; recommended for light sensitive samples
- PTFE-lined white polypropylene closed top cap
- Sizes range from 60mL to 2500mL
- Closures assembled on bottles

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each jar individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of certified jars, but jars are not barcoded, and CofA is not included
- Unprocessed jars are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

05-719 Amber Series

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of
2 oz. (60mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-400	341-0060	**05-719-287**	24/109.70
4 oz. (120mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	38-400	341-0120	**05-719-291**	12/61.30
8 oz. (250mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	45-400	341-0250	**05-719-66**	12/66.60
16 oz. (500mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	341-0500	**05-719-77**	12/71.70
32 oz. (950mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	341-0950	**05-719-298**	12/87.80
40 oz. (1250mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	70-400	341-1250	**05-719-467**	6/117.00
84 oz. (2500mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	70-400	341-2500	**05-721-105**	4/62.80
2 oz. (60mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-400	241-0060	**05-719-288**	24/95.40
4 oz. (120mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	38-400	241-0120	**05-719-52**	12/52.90
8 oz. (250mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	45-400	241-0250	**05-719-63**	12/57.70
16 oz. (500mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	241-0500	**05-719-74**	12/62.60
32 oz. (950mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	241-0950	**05-719-80**	12/76.40
40 oz. (1250mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	70-400	241-1250	**14-965-34**	6/109.80
2 oz. (60mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	33-400	141-0060	**05-719-289**	24/81.30
4 oz. (120mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	38-400	141-0120	**05-719-292**	12/44.95
8 oz. (250mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	45-400	141-0250	**05-719-294**	12/48.90
16 oz. (500mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	53-400	141-0500	**05-719-69**	12/53.40
32 oz. (950mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	53-400	141-0950	**05-719-79**	12/65.40
84 oz. (2500mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	70-400	141-2500	**05-721-106**	4/50.80

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Thermo Scientific™ Wide-Mouth Septa Jars; Type III Glass Bottle, White PP Open Top Closure with PTFE/Silicone Septum

For sampling soil and viscous liquids

Type III soda-lime glass bottle, clear or amber.

- Amber jars are recommended for light-sensitive analytes
- White polypropylene cap with bonded PTFE-faced silicone septa
- Caps assembled onto bottles
- Wide-mouth design is ideal for soil samples and viscous liquids

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each bottle individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider helps protect jars from breakage; requires additional over-pack for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of Certified jars, but jars are not barcoded, and CofA is not included
- Unprocessed jars are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; requires additional over-pack for shipping

05-719 Series

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of
2 oz. (60mL)	Short clear SS jar	Certified	VOA	Septa cap	53-400	S320-0060	**05-719-456**	24/119.70
4 oz. (120mL)	Short amber SS jar	Certified	VOA	Septa cap	58-400	S340-0120	**05-719-207**	24/131.50
4 oz. (125mL)	Short clear SS jar	Certified	VOA	Septa cap	58-400	S320-0125	**05-719-459**	24/131.50
4 oz. (125mL)	Tall clear SS jar	Certified	VOA	Septa cap	58-400	S321-0125	**05-719-311**	12/61.30
8 oz. (250mL)	Tall clear SS jar	Certified	VOA	Septa cap	58-400	S321-0250	**05-719-450**	12/75.40
2 oz. (60mL)	Amber packer jar	Processed	VOA	Septa cap	33-400	S241-0060	**05-719-12**	24/193.00
2 oz. (60mL)	Short clear SS jar	Processed	VOA	Septa cap	53-400	S220-0060	**05-719-457**	24/94.70
4 oz. (120mL)	Short amber SS jar	Processed	VOA	Septa cap	58-400	S240-0120	**05-719-523B**	24/138.60
4 oz. (125mL)	Short clear SS jar	Processed	VOA	Septa cap	58-400	S220-0125	**05-719-460**	24/104.20
4 oz. (125mL)	Tall clear SS jar	Processed	VOA	Septa cap	48-400	S221-0125	**05-719-312**	12/53.20
8 oz. (250mL)	Tall clear SS jar	Processed	VOA	Septa cap	58-400	S221-0250	**05-719-451**	12/58.20
2 oz. (60mL)	Short clear SS jar	Unprocessed	None	Septa cap	53-400	S120-0060	**05-719-458**	24/88.20
4 oz. (120mL)	Short amber SS jar	Unprocessed	None	Septa cap	58-400	S140-0120	**05-719-449**	24/129.70
4 oz. (125mL)	Short clear SS jar	Unprocessed	None	Septa cap	58-400	S120-0125	**05-719-461**	24/97.20
4 oz. (125mL)	Tall clear SS jar	Unprocessed	None	Septa cap	58-400	S121-0125	**05-719-313**	12/45.20
8 oz. (250mL)	Tall clear SS jar	Unprocessed	None	Septa cap	58-400	S121-0250	**05-719-452**	12/71.40

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Prices subject to change.

Thermo Scientific™ Economy Certified VOA Vials with 0.125" Septa; Clear or Amber Borosilicate Glass Vial with 0.125" Silicone/PTFE Septum in a White PP Cap

Designed for water sample collection for volatile organic analysis

- Clear vial designed for water sample collection for volatile organic analysis (VOA)
- Vial shoulder slope optimized to prevent air bubble entrapment
- Clear or amber vials; amber is recommended for light-sensitive analytes
- Available in the standard 40mL size
- Open-top white polypropylene cap with standard 0.125" thick PTFE-lined silicone septum
- Septum permanently bonded to the cap for a secure seal
- Directly compatible with automation
- Closures assembled to vials
- Bulk packed 100/cs

12-100-107 and 12-100-108

Includes:

Economy certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case
- Chipboard divider packaging to cushion and protect vials during shipping

COMPLIANCE:
Vials meet or exceed EPA performance based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Septum	Closure Size	Mfr. No.	Cat. No.	Case of 100
40mL	Clear VOA Vial	Certified	VOA	0.125" bonded	24-414	GVB-100C	**12-100-107**	168.80
40mL	Amber VOA Vial	Certified	VOA	0.125" bonded	24-414	GVB-100A	**12-100-108**	162.20

Glass - Jugs

Thermo Scientific™ Narrow Mouth Boston Round Amber Glass Jug

Ideal for transporting field blank water and water sampling

Amber Type III soda-lime glass jug; recommended for light sensitive samples.

- PTFE-lined white polypropylene closed top cap
- Choose from 2360mL or 4000mL
- Closures assembled on containers

05-719 Series

Includes:

Certified jugs come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each jug individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed jugs are processed in the same manner as certified jugs and come with all the features of certified jugs, but jugs are not barcoded, and CofA is not included
- Unprocessed jugs are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping

APPLICATIONS:
UV light-sensitive water sampling

COMPLIANCE:
Certified and Processed jugs meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. x O.D. x Height	Closure Size	Replacement Closure/Liner	Mfr. No.	Cat. No.	Case of
2360mL	2630mL	Unprocessed	1" × 5.38" × 12.25"	38-430	B267-3830/278-3038	145-2360	**05-719-92**	6/51.50
4000mL	4290mL	Unprocessed	1" × 6.25" × 14"	38-430	B267-3830/278-3038	145-4000	**05-719-175**	4/43.50
2360mL	2630mL	Processed/2	1" × 5.38" × 12.25"	38-430	B267-3830/278-3038	245-2360	**05-719-93**	6/59.80
4000mL	4290mL	Processed/2	1" × 6.25" × 14"	38-430	B267-3830/278-3038	245-4000	**05-719-95**	4/51.10
2360mL	2630mL	Certified/2	1" × 5.38" × 12.25"	38-430	B267-3830/278-3038	345-2360	**05-719-94**	6/69.90
4000mL	4290mL	Certified/2	1" × 6.25" × 14"	38-430	B267-3830/278-3038	345-4000	**05-719-96**	4/59.30

Glass - Vials

Thermo Scientific™ Amber VOA Vials with 0.125" Septa; Amber Borosilicate Glass Vial with 0.125" Silicone/PTFE Septum in a White PP Cap

Recommended for UV light-sensitive samples

- Amber vial for water sample collection for volatile organic analysis (VOA)
- Amber color protects light-sensitive analytes from break-down
- Vial shoulder slope optimized to prevent air bubble entrapment
- Choose from 20mL, 40mL and 60mL sizes
- Open-top white polypropylene cap with standard 0.125" thick PTFE lined silicone septum
- Septum permanently bonded to the cap or unbonded for easy replacement
- Directly compatible with automation
- Closures assembled to vials

Includes:

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique Field to Lab carton conveniently converts to a vial organizer tray for convenient lab use (unbonded septum varieties only). Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping
- Processed vials are processed in the same manner as certified vials and come with all the features of certified vials, but vials are not barcoded, and CofA is not included
- Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process

12-100-1 Series

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Level	Cert Parameter	Septum	Closure Size	Mfr. No.	Cat. No.	Case of
40mL	Certified	VOA	0.125" unbonded	24-414	S346-0040	**05-719-105**	72/192.90
60mL	Certified	VOA	0.125" unbonded	24-414	S346-0060	**05-719-402**	72/226.50
20mL	Certified	VOA	0.125" bonded	24-414	139-20A/EP	**12-100-109**	72/235.00
40mL	Certified	VOA	0.125" bonded	24-414	141-40A/EP	**12-100-103**	72/242.00
40mL	Certified	VOA	0.125" bonded	24-414	141-40A/DB	**12-100-105**	144/276.00
60mL	Certified	VOA	0.125" bonded	24-414	141-60A	**12-100-120**	144/426.00
40mL	Processed	VOA	0.125" unbonded	24-414	S246-0040	**05-719-102**	72/160.50
60mL	Processed	None	0.125" unbonded	24-414	S246-0060	**05-719-401**	72/194.20
40mL	Unprocessed	None	0.125" unbonded	24-414	S146-0040	**05-719-99**	72/116.60
60mL	Unprocessed	None	0.125" unbonded	24-414	S146-0060	**05-719-400**	72/170.30
20mL	Unprocessed	None	0.125" bonded	24-414	339-20A	**12-100-116**	72/94.60
40mL	Unprocessed	None	0.125" bonded	24-414	341-40A	**12-100-117**	72/112.30
60mL	Unprocessed	None	0.125" bonded	24-414	341-60A	**12-100-121**	144/264.50

Thermo Scientific™ Clear VOA Vials with 0.125" Septa; Clear Borosilicate Glass Vial with 0.125" Silicone/PTFE Septum in a White PP Cap

Available in three sizes

- Clear vial designed for water sample collection for volatile organic analysis (VOA)
- Vial shoulder slope optimized to prevent air bubble entrapment
- Choose from 20, 40 or 60mL sizes
- Open-top white polypropylene cap with standard 0.125" thick PTFE lined silicone septum
- Septum permanently bonded to the cap or unbonded for easy replacement
- Directly compatible with automation
- Closures assembled to vials

Includes:

Certified vials come with the following features:

Certified to meet or exceed EPA performance-based standards for volatile organic analysis

- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique Field to Lab carton conveniently converts to a vial organizer tray for convenient lab use (unbonded septum varieties only). Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping
- Processed vials are processed in the same manner as Certified vials and come with all the features of Certified vials, but vials are not barcoded, and CofA is not included

05-719- and 12-100 series

- Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process

COMPLIANCE:
Certified and **Processed** vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Closure Size	Mfr. No.	Cat. No.	Case of
20mL	Clear VOA Vial	Certified	VOA	24-414	S326-0020	**05-719-115**	72/184.70
40mL	Clear VOA Vial	Certified	VOA	24-414	S336-0040	**05-719-104**	72/199.80
60mL	Clear VOA Vial	Certified	VOA	24-414	S336-0060	**05-719-399**	72/234.50
20mL	Clear VOA Vial	Certified	VOA	24-414	139-20C/EP	**12-100-100**	72/211.00
40mL	Clear VOA Vial	Certified	VOA	24-414	140-40C/EP	**12-100-110**	72/229.50
40mL	Clear VOA Vial	Certified	VOA	24-414	140-40C/DB	**12-100-104**	144/334.00
60mL	Clear VOA Vial	Certified	VOA	24-414	140-60C	**12-100-102**	144/409.50
20mL	Clear VOA Vial	Processed	VOA	24-414	S226-0020	**05-719-116**	72/161.80
40mL	Clear VOA Vial	Processed	VOA	24-414	S236-0040	**05-719-101**	72/166.20
60mL	Clear VOA Vial	Processed	VOA	24-414	S236-0060	**05-719-403**	72/202.50
20mL	Clear VOA Vial	Unprocessed	None	24-414	S126-0020	**05-719-117**	72/107.40
40mL	Clear VOA Vial	Unprocessed	None	24-414	S136-0040	**05-719-98**	72/117.50
60mL	Clear VOA Vial	Unprocessed	None	24-414	S136-0060	**05-719-398**	72/151.60
20mL	Clear VOA Vial	Unprocessed	None	24-414	339-20C	**12-100-112**	72/94.60
40mL	Clear VOA Vial	Unprocessed	None	24-414	340-40C	**12-100-111**	72/114.90
40mL	Clear VOA Vial	Unprocessed	None	24-414	340-40C/DB	**12-100-106**	144/206.50
60mL	Clear VOA Vial	Unprocessed	None	24-414	340-60C	**12-100-113**	144/290.00

Thermo Scientific™ EPA VOA Open Top Vials

Available in clear or amber borosilicate glass

- Assembled polypropylene caps and 0.060" or 0.125" PTFE/silicone septa
- Vials are directly compatible with autosamplers
- Chipboard divider packaging cushions and protects vials during shipping
- Level 3 containers are not pre-cleaned
- Each case is custody sealed
- Labeled with a lot number for traceability to the enclosed Certificate of Analysis
- Cleaning Procedure B for 1.38 oz. (40mL) borosilicate glass vials and some larger bottles, recommended for volatile sampling

APPLICATIONS:
EPA volatiles; Liquids or solids

CERTIFICATIONS:
Level 1 Procedure B processing and certification meets or exceeds EPA standards for volatile organic sampling

NOTES:
Custom cleaning services are also available for additional applications. Contact your Fisher Scientific Customer Service Representative for more information

12-100 Series

			Certified (L1)			Noncleaned; assembled only (L3)		
Capacity	**Screw Cap Size**	**Septa Size**	**Mfr. No.**	**Cat. No.**	**Case of**	**Mfr. No.**	**Cat. No.**	**Case of**
Clear								
20mL	24-414	0.125"	139-20C/EP	**12-100-100**	72/211.00	339-20C	**12-100-112**	72/94.60
40mL	24-414	0.125"	140-40C/EP	**12-100-110**	72/229.50	340-40C	**12-100-111**	72/114.90
40mL	24-414	0.125"	140-40C/DB	**12-100-104**	144/334.00	340-40C/DB	**12-100-106**	144/206.50
60mL	24-414	0.125"	140-60C	**12-100-102**	144/409.50	340-60C	**12-100-113**	144/290.00
Amber								
20mL	24-414	0.125"	139-20A/EP	**12-100-109**	72/235.00	339-20A	**12-100-116**	72/94.60
40mL	24-414	0.125"	141-40A/EP	**12-100-103**	72/242.00	341-40A	**12-100-117**	72/112.30
40mL	24-414	0.125"	141-40A/DB	**12-100-105**	44/276.00	----	----	----
60mL	24-414	0.125"	141-60A	**12-100-120**	144/426.00	341-60A	**12-100-121**	144/264.50

THINK GREEN

How Fisher Scientific Thinks Green

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Prices subject to change.

Thermo Scientific™ Pre-Preserved Environmental Sample Containers

Provide an extra measure of assurance that proper sampling protocols are followed

- Standard Thermo Scientific certified sample containers pre-preserved with certified chemical preservatives for environmental sample analyses
- Packaged in compliance with the shipping requirements of 49 CFR Part 173.4 DOT Small Quantities Classification

Custom preserved containers available by special order:

- Choose a standard certified Thermo Scientific environmental sample container
- Choose a chemical from our standard chemical list
- Specify the volume and concentration of chemical to aliquot into each container
- 10 case minimum order

ORDERING INFORMATION:
Products available only in the US and Canada.

Series 12-100 Preserved Containers

INCLUDES:
Certified sample containers pre-preserved with chemical preservative; certificate of analysis for container and preservative, individually barcoded containers traceable to certs, sample analysis labels unattached for optional use, hazardous material compliant packaging. MSDS available upon request.

COMPLIANCE:
Certified to meet the EPA Performance Based Specifications for indicated analyses; packaged in compliance with the shipping requirements of 49 CFR Part 173.4 DOT Small Quantities Classification; manufactured under an ISO certified quality management system.

Description	Processing	O.D. × H	Closure Size	Liner	Mfr. No.	Cat. No.	Case of
Clear vial	Certified	1.125" × 3.75"	24-414	Septa	PP140-40CEP.2HA	**12-100-255**	72/184.19
Amber vial	Certified	1.125" × 3.75"	24-414	Septa	PP141-40AEP.2HA	**12-100-183**	72/186.70
Amber glass Boston round	Certified	3.75" × 8.50"	33-430	PTFE	PP112-01A/5HA	**12-100-273**	12/103.60
EP Preserved container, 250mL HDPE, w/1mL 1:1 Nitric Acid	C	1.50" × 5.00"	24-410	PE F217	PP157-250W/1NA	**12-100-186**	24/112.00
EP Preserved container, 250mL amber, w/0.5mL 1:1 Sulfuric Acid	A	2.375" × 5.375"	24-414	PTFE	PP114-250A/.5SA	**12-100-188**	12/76.70

Thermo Scientific™ TOC Certified Containers

Certified to contribute < 10ppb or < 20ppb TOC as background

- Available in several sizes and styles of containers, including the populer 40mL autosampler vials cleaned, certified and ready to use
- Includes Certificate of Analysis

APPLICATIONS:
TOC Testing

Series 12-100 TOC Certified Containers

Description	O.D. × H	Closure Size	Mfr. No.	Cat. No.	Case of
40mL clear vial open top, welded septum w/cap cover, double box, TOC low level	1.125" x 3.75"	24-414	40C-TOC/DB/LL	**12-100-370**	144/769.50
40mL clear vial open top, welded septum w/cap cover, TOC Low Level	1.125" x 3.75"	24-414	40C-TOC/LL	**12-100-250**	72/503.00
1L (32 oz.) clear boston round low particle	3.75" x 8.50"	33-430	1000C/TOC	**12-100-403**	12/136.37
125mL (4 oz.) amber boston round Closed top, welded septum TOC <20ppb	1.875" x 4.375"	22-400	S114-125A/TOC	**12-100-375**	12/148.60
250mL (8 oz.) clear boston round open top, welded septum TOC <20ppb	2.375" x 5.375"	24-414	S114-250C/TOC	**12-100-373**	24/226.50
250mL (8oz.) amber boston round open top, welded septum TOC <20 ppb	2.375" x 5.375"	24-414	S114-250A/TOC	**12-100-374**	12/110.40
25 × 150 60mL culture tube open top, TOC <20ppb	0.938" x 6.00"	24-414	SCT-25150/TOC	**12-101-147**	144/980.22
16 × 125 18mL culture tube round bottom Low Level TOC <10ppb	0.563" x 5.00"	15-425	CT18-TOC/LL	**12-100-376**	255/860.50

Glass - Wide Mouth Packers

Fisherbrand® Certified Clean Amber Wide-Mouth Packers

- With PTFE-faced PE-lined caps

CERTIFICATIONS:
A Certificate of Analysis is attached to each lot

02-912-00 Series

Capacity	Screw Cap Size	Cat. No.	Case of
1 oz. (30mL)	28-400mm	**02-912-004**	24/84.66
2 oz. (60mL)	33-400mm	**02-912-005**	24/105.80
4 oz. (125mL)	38-400mm	**02-912-007**	12/60.28
8 oz. (250mL)	45-400mm	**02-912-008**	12/73.64
16 oz. (500mL)	53-400mm	**02-912-003**	12/89.15
32 oz. (950mL)	43-400mm	**02-912-006**	12/122.71

Fisherbrand® Custom Cleaned Amber Wide-Mouth Packers

With PTFE-faced, PE-lined caps attached

- Containers and caps are noncertified and precleaned with USP Purified Water for visible particulates in a clean process area

ORDERING INFORMATION:
Custom packaging and certification available upon request.

02-911-9 Series

Capacity	Screw Cap Size	Cat. No.	Case of
2 oz. (60mL)	33mm-400	**02-911-930**	24/69.80
4 oz. (125mL)	38mm-400	**02-911-932**	24/80.70
8 oz. (250mL)	45mm-400	**02-911-933**	24/89.40
16 oz. (500mL)	53mm-400	**02-911-929**	12/52.40
32 oz. (1000mL)	53mm-400	**02-911-931**	12/66.60

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Prices subject to change.

Thermo Scientific™ Wide-Mouth Glass Packers; Amber Type III Glass Jar with PTFE-Lined White PP Cap

For use in soil, sludge and sediment sampling

- Amber Type III soda-lime glass jar; recommended for light sensitive samples
- PTFE-lined white polypropylene closed top cap
- Sizes range from 60mL to 2500mL
- Closures assembled on bottles

05-719 Series

Includes:

Certified jars come with the following features:

- Certified to meet or exceed EPA performance-based standards for semi-volatile organics, pesticides, PCBs and metals analyses
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each jar individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Chipboard divider packaging to cushion and help prevent breakage; overpack required for shipping
- Processed jars are processed in the same manner as certified jars and come with all the features of certified jars, but jars are not barcoded, and CofA is not included.
- Unprocessed jars are ready for your own in-house cleaning and certification process. Boxed with chipboard dividers to help prevent breakage; overpack required for shipping.

COMPLIANCE:
Certified and Processed jars meet or exceed EPA performance based standards for semi-volatile organics, pesticides, PCB's and metals analyses; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of
2 oz. (60mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-400	341-0060	**05-719-287**	24/109.70
4 oz. (120mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	38-400	341-0120	**05-719-291**	12/61.30
8 oz. (250mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	45-400	341-0250	**05-719-66**	12/66.60
16 oz. (500mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	341-0500	**05-719-77**	12/71.70
32 oz. (950mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	341-0950	**05-719-298**	12/87.80
40 oz. (1250mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	70-400	341-1250	**05-719-467**	6/117.00
84 oz. (2500mL)	Amber Glass Packer	Certified	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	70-400	341-2500	**05-721-105**	4/62.80
2 oz. (60mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	33-400	241-0060	**05-719-288**	24/95.40
4 oz. (120mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	38-400	241-0120	**05-719-52**	12/52.90
8 oz. (250mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	45-400	241-0250	**05-719-63**	12/57.70
16 oz. (500mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	241-0500	**05-719-74**	12/62.60
32 oz. (950mL)	Amber Glass Packer	Processed	Semi-VOA, pesticides, PCBs, metals	PTFE-lined	53-400	241-0950	**05-719-80**	12/76.40
2 oz. (60mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	33-400	141-0060	**05-719-289**	24/81.30
4 oz. (120mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	38-400	141-0120	**05-719-292**	12/44.95
8 oz. (250mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	45-400	141-0250	**05-719-294**	12/48.90
16 oz. (500mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	53-400	141-0500	**05-719-69**	12/53.40
32 oz. (950mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	53-400	141-0950	**05-719-79**	12/65.40
84 oz. (2500mL)	Amber Glass Packer	Unprocessed	None	PTFE-lined	70-400	141-2500	**05-721-106**	4/50.80

Plastic

Fisherbrand® Pre-Cleaned Plastic Containers

Certified for background contaminants

APPLICATIONS:
Environmental test, pharmaceutical and general laboratories

INCLUDES:
Polypropylene cap

NOTES:
Certificate of analysis included

05-719-7 Series

Wide-Mouth Leakproof Bottles

Capacity	Cat. No.	Case of
4.22 oz. (125mL)	**05-719-707**	72/177.00
8.45 oz. (250mL)	**05-719-708**	72/223.00
16.9 oz. (500mL)	**05-719-709**	48/176.40
33.8 oz. (1000mL)	**05-719-710**	24/129.90

Narrow-Mouth Leakproof Bottles

Capacity	Cat. No.	Case of
4.22 oz. (125mL)	**05-719-711**	72/168.81
8.45 oz. (250mL)	**05-719-712**	72/216.50
16.9 oz. (500mL)	**05-719-713**	48/169.60
33.8 oz. (1000mL)	**05-719-714**	24/120.70

Boston Round Bottles

Capacity	Screw Cap Size	Cat. No.	Case of
4.22 oz. (125mL)	24-410	**05-719-715**	48/138.82
8.45 oz. (250mL)	28-410	**05-719-716**	24/64.30
16.9 oz. (500mL)	38-430	**05-719-717**	24/73.80
33.8 oz. (1000mL)	38-430	**05-719-718**	12/54.40

Wide-Mouth Oblong Bottles

Capacity	Screw Cap Size	Cat. No.	Case of
4.22 oz. (125mL)	38-400	**05-719-719**	48/72.10
8.45 oz. (250mL)	43-400	**05-719-720**	24/54.20
16.9 oz. (500mL)	43-400	**05-719-721**	24/50.70
33.8 oz. (1000mL)	43-400	**05-719-722**	12/49.85

Cylinders

Capacity	Screw Cap Size	Cat. No.	Case of
2.02 oz. (60mL)	20-410	**05-719-723**	48/74.56
8.45 oz. (250mL)	24-410	**05-719-725**	24/60.49
16.9 oz. (500mL)	28-410	**05-719-726**	24/67.10
33.8 oz. (1000mL)	28-410	**05-719-727**	12/49.15

Jugs

Capacity	Cat. No.	Case of
0.52 gal. (2L)	**05-719-728**	6/50.54
1.05 gal. (4L)	**05-719-729**	6/45.03

Straight-Sided Jars

Capacity	Screw Cap Size	Cat. No.	Case of
4.22 oz. (125mL)	70-400	**05-719-730**	24/102.80
8.45 oz. (250mL)	89-400	**05-719-731**	48/158.60
16.9 oz. (500mL)	89-400	**05-719-732**	24/54.30
33.8 oz. (1000mL)	89-400	**05-719-733**	12/54.10

Wide-Mouth Jars

Capacity	Screw Cap Size	Cat. No.	Case of
4.22 oz. (125mL)	38-400	**05-719-735**	48/115.57
8.45 oz. (250mL)	48-400	**05-719-736**	24/87.01
16.9 oz. (500mL)	53-400	**05-719-737**	24/100.98
33.8 oz. (1000mL)	63-400	**05-719-738**	12/65.48
67.6 oz. (2000mL)	100-400	**05-719-739**	6/56.71
135.2 oz. (4000mL)	100-400	**05-719-740**	4/44.83

Thermo Scientific™ Narrow-Mouth Natural HDPE Bottle; Certified, HDPE, PP Screw Closure

For water and wastewater samples

- HDPE container with leak-proof polypropylene closure
- Leak-proof guaranteed
- Certified to meet EPA Performance Based Specifications for trace metal and water quality parameter analyses
- Caps assembled onto containers
- Narrow mouth for precision pouring
- Recommended for collecting water samples and other low viscosity liquids

Includes:

Certified containers come with the following features:

- Certified to meet or exceed EPA performance-based standards for metals and water quality parameters
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each container individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence

05-719-358E, -358C

APPLICATIONS:
Water and wastewater samples

COMPLIANCE:
Certified containers meet or exceed EPA performance-based standards for metals and water quality parameters; manufactured under an ISO certified quality management system.

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. × O.D. × Height	Closure Size	Replacement Closure	Mfr. No.	Cat. No.	Case of
125mL	143mL	Certified/1 + Nutr.	7.69" × 3.56" × 3.88"	24	71-2150-0240	N319-0125	**05-719-358C**	72/207.00
500mL	520mL	Certified/1 + Nutr.	.81" × 2.44" × 6.75"	28	71-2150-0280	N319-0500	**05-719-358E**	48/195.20
1000L	1090mL	Certified/1 + Nutr.	1.06" × 2.13" × 8.38"	38-430	71-2160-0384	N319-1000	**05-719-358F**	24/143.40

Thermo Scientific™ Wide-Mouth Natural HDPE Bottle; HDPE, PP Screw Closure

Ideal for soil, sediment and sludge sampling

- HDPE container with leak-proof polypropylene closure
- Leak-proof guaranteed
- Certified to meet EPA Performance Based Specifications for trace metal and water quality parameter analyses
- Caps assembled onto containers
- Wide mouth for easy filling and emptying
- Recommended for collecting a wide variety of environmental sample matrices
- Available in bulk packs for added economy

Includes:

Certified containers come with the following features:

- Certified to meet or exceed EPA performance-based standards for metals and water quality parameters
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each container individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence

05-719 Series

APPLICATIONS:
Soil, sludge and sediment samples

COMPLIANCE:
Certified containers meet or exceed EPA performance-based standards for metals and water quality parameters; manufactured under an ISO certified quality management system.

Capacity	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of
4 oz. (125mL)	Certified	Metals and water quality parameters	Leak-proof PP	38	N311-0125	**05-719-351**	72/214.00
8 oz. (250mL)	Certified	Metals and water quality parameters	Leak-proof PP	43	N311-0250	**05-719-353**	72/264.50
16 oz. (500mL)	Certified	Metals and water quality parameters	Leak-proof PP	53	N311-0500	**05-719-349**	48/211.00
16 oz. (500mL)	Certified	Metals and water quality parameters	Leak-proof PP	53	N311-0500BPC	**05-721-109**	125/418.00
32 oz. (1000mL)	Certified	Metals and water quality parameters	Leak-proof PP	63	N311-1000	**05-719-357**	24/154.90

Thermo Scientific™ HDPE Cylinder Round Bottles; HDPE, White LDPE Foam-Lined PP Screw Closure

For water sampling

- HDPE container with white LDPE-lined polypropylene cap
- Narrow cylinder round style bottle is easy to grip and handle
- Caps assembled onto containers
- Narrow mouth for precision pouring
- Recommended for collecting water samples and other low viscous liquids
- Available bulk packed for added economy

05-719-88, 05-719-146, -145 (left to right)

Includes:

Certified containers come with the following features:

- Certified to meet or exceed EPA performance-based standards for metals, cyanide and fluoride
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each container individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence

APPLICATIONS:
Water sampling

COMPLIANCE:
Certified containers meet or exceed EPA performance-based standards for metals, cyanide and fluoride; manufactured under an ISO certified quality management system.

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. × O.D. × Height	Closure Size	Replacement Closure	Mfr. No.	Cat. No.	Case of
250mL	263mL	Certified/1	.69" × 2" × 6.13"	24-410	267-2410	313-0250	**05-719-146**	24/69.50
500mL	511mL	Certified/1	.81" × 2.5" × 7.88"	28-410	267-2810	313-0500	**05-719-145**	24/84.30
1000mL	1020mL	Certified/1	.81" × 3" × 9.5"	28-410	267-2810	313-1000	**05-719-88**	12/49.25

Thermo Scientific™ HDPE Wide-Mouth Straight-Sided Jar; HDPE, White LDPE Foam-Lined PP Screw Closure

Ideal for soil, sediment and sludge sampling

- HDPE container with white LDPE-lined polypropylene cap
- Caps assembled onto containers
- Wide mouth and straight-sidewalls for easy filling and sample retrieval
- Recommended for collecting solid and semi-solid matrix samples

05-719 Series

Includes:

Certified containers come with the following features:

- Certified to meet or exceed EPA performance-based standards for metals, cyanide and fluoride
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each container individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence

APPLICATIONS:
Soil, sediment and sludge sampling

COMPLIANCE:
Certified containers meet or exceed EPA performance-based standards for metals, cyanide and fluoride; manufactured under an ISO certified quality management system.

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. x O.D. x Height	Closure Size	Mfr. No.	Cat. No.	Case of
250mL	263mL	Certified/1	2.38" × 2.88" × 3.44"	70-400	311-0250	**05-719-245**	48/194.50
500mL	567mL	Certified/1	3.13" × 3.75" × 4.13"	89-400	311-0500	**05-719-242**	42/125.20
1000mL	1020mL	Certified/1	3.13" × 3.63" × 6.5"	89-400	311-1000	**05-719-239**	12/78.60

ON THE WEB...

Looking for more environmental bottles?

Visit www.fishersci.com and search for Qorpak

ACCESSORIES

Thermo Scientific™ Custody Seals for I-Chem Jars, Bottles and Containers

Provide complete chain-of-custody and security

- Adhesive paper label sticks securely to glass and plastic — can't peel off
- Writing area for custody signature and date provide chain-of-custody tracking and tamper evidence

05-719-337

W × H	Mfr. No.	Cat. No.	Case of 100
1 × 7"	500	**05-719-337**	47.00

Thermo Scientific™ Nalgene™ Wide-Mouth EP Tox/TCLP Bottle; Teflon™ FEP, Teflon PFA Lined White PP Closure

Lighter in weight than glass, and protects against leakage, breakage and contamination

- 2.2L temperature-resistant PTFE resin FEP bottle has wide mouth for testing large-sized samples
- Autoclavable
- Leakproof†
- PTFE resin-lined polypropylene caps included
- Specially designed for U.S. EPA Method 1311: Toxicity Characteristic Leaching Program (TCLP)

NOTES:
Completely disengage threads before autoclaving.

02-924-15H

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of 2
2.2L	100mm	2101-2200	**02-924-15H**	677.50

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

ON THE WEB...

Looking for more environmental closures?

Visit www.fishersci.com and search for Environmental Bulk Pack Closures

Thermo Scientific™ Nalgene™ Wide-Mouth Economy Bottle Bulk Pack; HDPE, PP Screw Closure

Wide mouth makes cleaning easier

Lightweight versions of the original Nalgene Lab Quality Bottle, suitable for light-duty, general purpose applications where a heavier bottle is not required.

- Translucent
- Excellent chemical resistance to most acids, bases and alcohols
- Bulk packed for the ultimate in economical liquid containment
- Wide mouth makes these bottles easy to fill with solids or liquids
- Linerless caps ensure leakproof performance without a liner that can wrinkle, cause leaks and contaminate your solutions
- Leakproof†

Left to right: 03-313-6A, -6C, -6D, -6B

ORDERING INFORMATION: Packaged in bulk quantities.

NOTES: Direct UV exposure should be avoided. The Nalgene Lab Quality Bottle (Cat. No. 2104) is recommended for hazardous and critical material containment.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
2 oz. (60mL)	28mm	332189-0002	**02-960-19**	1000/1434.66
4 oz. (125mL)	38mm	332189-0004	**03-313-6A**	500/509.89
8 oz. (250mL)	43mm	332189-0008	**03-313-6B**	250/386.32
16 oz. (500mL)	53mm	332189-0016	**03-313-6C**	125/283.00
32 oz. (1000mL)	63mm	332189-0032	**03-313-6D**	50/184.20

Specialty - Fluorinated

Thermo Scientific™ Nalgene™ Fluorinated Large Wide-Mouth Bottle; Fluorinated HDPE, Fluorinated PP Screw Closure

Provides improved barrier properties, reduced solvent absorption and penetration

Enhances long-term performance and prevents permeation loss.

- Safe, durable, fluorinated HDPE bottle has fluorocarbon surface, inside and out
- Leakproof†
- Fluorinated white polypropylene screw caps included

02-925-5

Capacity	Mfr. No.	Cat. No.	Each	Case of 6
0.5 gal. (2L)	2124-0005	**02-925-5**	48.25	178.10

Thermo Scientific™ Nalgene™ Fluorinated Bottles; Fluorinated HDPE, Fluorinated PP Screw Closure

Enhance long-term performance and prevent permeation loss

- Leakproof†
- Heavy-duty walls are safe, durable and resistant to splitting and punctures
- Fluorocarbon surfaces inside and out
- Available with narrow or wide mouths
- HDPE screw caps included

03-312-13 to -19

Capacity	Mfr. No.	Cat. No.	Price	Case of
Narrow Mouth				
8 oz. (250mL)	2097-0008	**03-312-13**	Pk. of 12/64.00	6 Pk./244.00
16 oz. (500mL)	2097-0016	**03-312-14**	Pk. of 12/89.70	4 Pk./227.50
32 oz. (1L)	2097-0032	**03-312-15**	Pk. of 6/79.80	4 Pk./202.50
64 oz. (2L)	2097-0005	**03-312-16**	Ea./40.90	6/155.80
1 gal. (4L)	2097-0010	**03-312-17**	Ea./56.70	6/216.00
2.5 gal. (10L)	2097-0020	**03-312-18**	Ea./146.50	6/565.50
5 gal. (20L)	2097-0050	**03-312-19**	Ea./201.50	4/519.00
Wide Mouth				
4 oz. (125mL)	2197-0004	**03-312-20**	Pk. of 12/60.70	6 Pk./231.00
8 oz. (250mL)	2197-0008	**03-312-21**	Pk. of 12/92.00	6 Pk./350.00
16 oz. (500mL)	2197-0016	**03-312-22**	Pk. of 12/127.60	4 Pk./324.50
32 oz. (1000mL)	2197-0032	**03-312-23**	Pk. of 6/116.20	4 Pk./295.00

Specialty - International Shipping

Specialty - Media Bottles

Fisherbrand® Reusable Glass Media Bottles with Cap

Convenient wide opening

Ideal for general use.

- Enhanced graduations
- Permanent white enamel marking spot
- GL 45 screw thread
- Clear (natural), drip-free, replaceable polypropylene pour ring
- Linerless
- Autoclavable (to 140°C)
- Polypropylene cap

FB-800-500

Capacity	Graduation Range	Cat. No.	Case of
100mL	20 to 80mL	**FB-800-100**	10/91.20
250mL	50 to 200mL	**FB-800-250**	10/101.30
500mL	100 to 400mL	**FB-800-500**	10/121.10
1000mL	100 to 900mL	**FB-800-1000**	10/147.30
2000mL	400 to 1800mL	**FB-800-2000**	1/38.80
5000mL	1000 to 4000mL	**FB-800-5000**	1/128.40
10,000mL	2000 to 8000mL	**FB-800-10000**	1/222.00

Fisherbrand® Replacement Cap for Glass Media Bottles

Fits GL45 screw thread

Replacement cap for glass media bottles

- Autoclavable up to 140°C
- Polypropylene
- Linerless
- Blue

Description	Cat. No.	Case of 10
Replacement Cap	**FB-800-STDCAP**	36.40

Kimax™ Media Bottles

Designed for easy pouring and handling

- Available with or without graduations
- 1000mL size features finger grips molded into the side wall and is available with two GPI thread sizes
- All bottles have screw-thread finish
- With or without black phenolic closures with 14B rubber liners

06-421-8

Capacity	Dia. × H	GPI Thread	Mfr. No.	Cat. No.	Case of
Graduated with 14B white rubber-lined closures					
125mL	55 × 123mm	33mm-430	61110R 125	**06-421-7**	48/241.80
500mL	88 × 192mm	33mm-430	61110R 500	**06-421-8**	24/237.10
1000mL	102 × 225mm	38mm-430	61110R 1000	**06-421-9**	12/147.17
1000mL	102 × 226mm	33mm-430	61111R 1000	**06-421-10**	12/150.30
Graduated with PTFE-faced 14B white rubber-lined closures					
125mL	55 × 123mm	33mm-430	61110T 125	**06-421-11**	48/262.50
500mL	88 × 192mm	33mm-430	61110T 500	**06-421-12**	24/255.90
1000mL	102 × 225mm	38mm-430	61110T 1000	**06-421-13**	12/157.61
1000mL	102 × 226mm	33mm-430	61111T 1000	**06-421-14**	12/159.60
Ungraduated without closures					
125mL	55 × 119mm	33mm-430	61100 125	**06-421-1**	48/128.99
250mL	70 × 147mm	33mm-430	61100 250	**06-421-3**	48/214.64
500mL	88 × 188mm	33mm-430	61100 500	**06-421-2**	24/162.94
1000mL	102 × 222mm	38mm-430	61100A 1000	**06-421-5**	12/106.43
1000mL	102 × 222mm	33mm-430	61100 1000	**06-421-6**	12/108.00
Graduated without closures					
125mL	55 × 119mm	33mm-430	61110 125	**06-421-15**	48/186.40
250mL	70 × 147mm	33mm-430	61110 250	**06-421-17**	48/271.00
500mL	88 × 188mm	33mm-430	61110 500	**06-421-16**	24/201.06
1000mL	102 × 222mm	38mm-430	61110A 1000	**06-421-19**	12/127.84
1000mL	102 × 222mm	33mm-430	61110 1000	**06-421-4**	12/129.70

Kimax™ GL 45 Media/Storage Bottles

Perfect for mixing, storing or transporting culture media, chemicals or solvents

- Autoclavable Type 1 borosilicate glass
- Permanent white-enamel graduations and marking spots
- Approx. 30mm I.D. GL 45 screw-thread opening
- Linerless blue polypropylene cap autoclavable to 140°C (284°F) and replaceable, drip-free, clear polypropylene pour ring included

ORDERING INFORMATION:
Cap and ring also sold separately; contact your Fisher Scientific™ Customer Service Representative.

02-542C

Capacity	Grad. Range	Grad. Interval	Approx. O.D. × H	Mfr. No.	Cat. No.	Case of
100mL	20 to 80mL	10mL	56 × 100mm	14395 100	**02-542A**	10/110.60
250mL	50 to 200mL	25mL	70 × 138mm	14395 250	**02-542B**	10/128.30
500mL	100 to 400mL	50mL	86 × 176mm	14395 500	**02-542C**	10/148.20
1000mL	100 to 900mL	50mL	101 × 225mm	14395-1000	**02-542D**	10/188.00
2000mL	400 to 1800mL	100mL	136 × 262mm	14395 2000	**02-542E**	4/186.20
5000mL	1000 to 4500mL	250mL	186 × 355mm	14395 5000	**06-421-30**	1/160.20
10,000mL	2000 to 9000mL	500mL	234 × 435mm	14395 10000	**06-421-31**	1/265.00

Kimble-Chase Chase RAY-SORB™ Media/Storage Bottles with Cap

For protecting light sensitive products

- Made of borosilicate glass
- <1% transmission below 400nm and reduced (5%) from 400 to 600nm as compared to untreated, clear, borosilicate glass
- Provided with enhanced graduation scale; cap and drip-free pour ring
- Screw thread: GL 45
- Graduations range: 100 to 900mL
- Graduated interval: 50mL

Description	Capacity	Mfr. No.	Cat. No.	Each
GL 45 Media/Storage Bottles with Cap	33.8 oz. (1000mL)	14399 1000	**02-542-4D**	53.48

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Wheaton™ Graduated Media/Lab Bottles

Rugged space-savers

- Clear borosilicate glass bottle with graduations and writing patch
- Heavy walls prevent breakage
- Sturdier than Erlenmeyer flasks
- Smaller diameter at base conserves space in sterilizers and freezers
- Large opening, special lip, sloping shoulders
- Graduated in mL to show approximate volumes
- Pre-attached black phenolic screw caps with choice of three liners
- Hand grips on 1L bottle provide easy handling

Left to right: 06-404D, -404B, -404A

COMPLIANCE: Meets USP Type 1 requirements.

Capacity	Dia. × H	Mfr. No.	Cat. No.	Each	Case of
Clear Glass, With rubber-lined cap (Autoclavable)					
125mL	55 × 123mm	219755	**06-404A**	7.19	48/246.94
250mL	67 × 152mm	219757	**06-404B**	9.24	48/316.67
500mL	88 × 192mm	219759	**06-404D**	14.22	24/243.79
1000mL	103 × 235mm	219760	**06-404E**	17.64	24/303.04
Clear Glass, Without cap					
500mL	88 × 192mm	219439	**03-439-67F**		
Clear Glass, With PTFE-faced, rubber-lined cap phenolic cap (Autoclavable)					
125mL	55 × 123mm	219815	**06-404F**	----	48/275.76
250mL	67 × 152mm	219817	**06-404G**	----	48/349.00
500mL	88 × 192mm	219819	**02-940-20**	----	24/278.00
1000mL	103 × 235mm	219820	**06-404-1**	19.28	24/330.81
Amber Glass, With PTFE-faced, rubber-lined cap phenolic cap (Autoclavable)					
125mL	55 × 123mm	219875	**06-451-289**		
Clear Glass, With LDPE-lined phenolic cap (Not Autoclavable)					
125mL	55 × 123mm	219715	**06-451-281**	----	48/298.50
250mL	67 × 152mm	219717	**06-451-282**	----	48/401.00
500mL	88 × 192mm	219719	**06-451-283**	----	24/301.00
1000mL	103 × 235mm	219720	**06-451-284**	----	24/366.00

ACCESSORIES

Caps for Wheaton™ Bottles

- Black phenolic caps with screw thread
- Low density polyethylene (not autoclavable), rubber lined (autoclavable)

06-450-7

Screw Cap Size	Mfr. No.	Cat. No.	Pack of 200
Low Density Polyethylene Cap (Not Autoclavable)			
33mm-430	240080	**06-450-7**	246.50
38mm-430	240081	**06-450-8**	288.00
Rubber-lined Cap (Autoclavable)			
33mm-430	240280	**06-450-34**	256.89
38mm-430	240281	**06-450-35**	322.00

Wheaton™ Glass Nongraduated Media Bottles

Autoclavable and versatile

Ideal for mixing and storing culture media when fitted with a rubber-lined screw cap, or for use with distilled water, analytical standards and reagents when fitted with a polyethylene-lined screw cap.

06-407, 06-451 Series and 22-263008

- Large opening, special lip and sloping shoulders for easy pouring, cleaning
- Clear borosilicate glass without graduations for maximum content visibility or amber glass for light-sensitive materials
- Amber glass are available in 125mL only
- With rubber and polyethylene-lined caps
- Pre-attached black phenolic screw caps are available with choice of liner
- Hand grips on 1L bottle, provides easy handling

COMPLIANCE: Meet USP Type 1 standard.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
Clear glass without cap				
125mL	33mm-430	219415	**06-407**	48/184.70
250mL	33mm-430	219417	**06-408**	48/285.50
500mL	33mm-430	219419	**06-409**	24/196.20
1000mL	38mm-430	219420	**06-410**	24/244.10
Clear glass with polyethylene-lined cap				
125mL	33mm-430	219495	**06-411**	48/256.50
250mL	33mm-430	219497	**06-412**	48/350.00
500mL	33mm-430	219499	**06-451-278**	24/239.00
1000mL	38mm-430	219500	**06-451-279**	24/309.50
Clear glass with rubber-lined cap				
125mL	33mm-430	219575	**06-414**	48/227.00
250mL	33mm-430	219577	**06-415**	48/314.00
500mL	33mm-430	219579	**22-263008**	24/226.00
1000mL	38mm-430	219580	**06-451-280**	24/327.50
Amber glass without cap				
125mL	33mm-430	219885	**06-451-290**	48/378.00

Corning™ Pyrex™ Reusable Media Storage Bottles

Ideal for media, buffers, aqueous and nonaqueous solutions

- Graduated in mL increments
- Orange autoclavable polypropylene plug-seal caps
- Drip-free clear polypropylene pouring rings
- Withstand temperatures up to 140°C (284°F), included on sizes 50mL through 10L

06-423A

Pyrex Round Glass Storage Bottles

- Available with either clear glass for routine storage applications or low actinic red glass for storing light-sensitive materials
- Choice of nine sizes: 25mL, 50mL, 100mL, 250mL, 500mL, 1L, 2L, 5L and 10L
- 100mL through 2L sizes can be used with Corning Bottle Top Vacuum Filters
- **Caution:** Bottles larger than 2L should NOT be used with filter units, or in other applications involving vacuum pressure, as breakage may occur

ORDERING INFORMATION:
Optional red melamine caps and PTFE rings are available for applications requiring temperatures to 180°C (356°F).

ALERTS:
Bottles larger than 2L should not have caps tightened immediately after autoclaving, nor should they be used with bottle-top filter units or other applications involving vacuum pressure, as breakage may occur.

Size	Mfr. No.	Cat. No.	Case of
25mL†	1395-25	**06-423A**	10/101.30
50mL†	1395-50	**06-423B**	10/100.00
100mL	1395-100	**06-414-1A**	10/103.02
250mL	1395-250	**06-414-1B**	10/114.43
500mL	1395-500	**06-414-1C**	10/136.65
1L	1395-1L	**06-414-1D**	10/167.76
2L	1395-2L	**06-414-1E**	1/53.00
5L	1395-5L	**06-414-1F**	1/154.13
10L	1395-10L	**06-414-1G**	1/237.35

†Replacement caps not available.

Pyrex™ Brand Square Media/Solution Bottles and Caps

Require 13 to 20% less space than round bottles

- Heavy-duty borosilicate glass
- Slight convex curvature of square sides minimizes glass-to-glass contact during sterilization and creates easy-to-reach corners for cleaning
- White enamel graduations, large marking spot and molded glass ridge indicate full capacity
- Linerless, orange, autoclavable polypropylene plug-seal caps and drip-free clear polypropylene pouring rings that withstand temperatures up to 140°C (284°F)

Capacity	Screw Thread Size	W × H	Mfr. No.	Cat. No.	Case of 10
3 oz. (100mL)	GL32	50 × 109mm	1396-100	**06-414-5**	124.84
8 oz. (250mL)	GL45	64 × 143mm	1396-250	**06-414-6**	139.89
17 oz. (500mL)	GL45	78 × 181mm	1396-500	**06-414-7**	174.43
34 oz. (1L)	GL45	94 × 222mm	1396-1L	**06-414-8**	227.25

NOTES:
For syringe sampling or reagent introduction, use with polybutylene terephthalate (PBT) caps with aperture (sold separately).

ALERTS:
Bottles should not have caps tightened immediately after autoclaving, nor should they be used for vacuum applications, as breakage may occur.

06-414-5

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

PyrexPlus™ Brand Media/Solution Bottles

Heavy-duty PyrexPlus round bottles have a protective PVC coating to help prevent glass from shattering and reduce spills

- Autoclavable at 121°C (249°F)
- Resistant to thermal shock
- GL45 threaded neck
- Glass bead indicates full capacity
- Teal enameled graduations and marking spot

06-423-3 Series

ORDERING INFORMATION:
Various other caps fit this bottle and are available for separate purchase: Polypropylene colored caps in a choice of orange, green, purple, red and light gray for ease of sorting and identification; Vented membrane cap with 0.22µm PTFE hydrophobic membrane; PBT caps with silicone septa for syringe sampling or introduction of reagents.

Capacity	Dia. × H	Mfr. No.	Cat. No.	Case of 4
100mL	56 × 100mm	61626 100	**06-423-3A**	128.99
250mL	70 × 138mm	61626 250	**06-423-3B**	159.69
500mL	86 × 176mm	61626-500	**06-423-3C**	203.79
1000mL	101 × 225mm	61626 1L	**06-423-3D**	250.20
2000mL	136 × 262mm	61626 2L	**06-423-3E**	385.96

Pyrex™ Brand Round Wide-Mouth Media Storage Bottles

Designed for heavy-duty storage as well as mixing and sampling

- Neck opening five times larger than GL45 threaded bottles
- High thermal shock resistance
- Usable up to 500°C (932°F) and in microwave ovens
- Pyrex brand bottles can be sterilized by autoclaving or dry heat
- Polypropylene caps can be autoclaved
- Permanent white enamel graduations and marking spot
- Extra wide mouth (69mm inner diameter) gives easier access for pouring and removing pastes, powders and larger items
- Traceability Code for easier documentation

13-700-403

INCLUDES: Linerless, one-piece, autoclavable, orange polypropylene plug-seal GLS80 threaded cap with drip-free pouring ring

ALERTS: Do not tighten caps immediately after autoclaving, as the vacuum resulting from cooling can cause breakage

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of 10
16 oz. (500mL)	80 GLS	1397-500	**13-700-403**	171.70
32 oz. (1000mL)	80 GLS	1397-1L	**13-700-404**	211.09
64 oz. (2000mL)	80 GLS	1397-2L	**13-700-405**	555.50

Thermo Scientific™ Nalgene™ Square Storage Bottles: PETG

Space-saving square design

03-311, -12 Series

PETG enhanced material provides low permeability to CO_2/O_2 and longer-term storage of pH-sensitive contents.

- Made from durable, break-resistant polyethylene terephthalate copolyester, glycol modified (PETG)
- Suitable for frozen storage down to -40°C
- Heat-shrink band around closure and neck provides tamper-evident seal
- Leakproof bottles and closures are provided sterile and non-pyrogenic — eliminates costly washing, depyrogenation and autoclaving steps
- Available in low particulate format
- Supported by extensive validation documentation

ORDERING INFORMATION:
Packed in shrink-wrapped trays. Note: 2L size has molded-in handgrips.

CERTIFICATIONS:
Bottles and closures are certified radiation sterilized (SAL 10-6), non-pyrogenic and non-cytotoxic, and comply with USP Class VI guidelines.

Capacity	Closure Size	Mfr. No.	Cat. No.	Case of
1 oz. (30mL)	20mm	2019-0030	**03-311-1V**	96/215.39
2 oz. (60mL)	24mm	2019-0060	**03-311-1W**	96/266.20
4 oz. (125mL)	38-430mm	2019-0125	**03-312-1**	48/185.90
8 oz. (250mL)	38-430mm	2019-0250	**03-312-3**	48/231.00
16 oz. (500mL)	38-430mm	2019-0500	**03-312-4**	24/167.20
32 oz. (1000mL)	38-430mm	2019-1000	**03-312-5**	24/221.10
64 oz. (2000mL)	53B	2019-2000	**03-311-1X**	12/190.30

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Thermo Scientific™ Nalgene™ Square Media Bottles: PETG with HDPE Closures, in Shrink Wrapped Trays, Sterile

Square Media Bottles are molded of crystal clear PETG

PETG material promotes reduced permeability to CO_2/O_2–perfect for media storage.

- Supported by extensive validation documentation
- Made from durable, break-resistant polyethylene terephthalate copolyester, glycol modified (PETG)
- Bottle and closure materials are ADFC (Animal Derived Component-Free)
- Radiation-sterilized and nonpyrogenic to eliminate costly washing, depyrogenation and autoclaving steps
- Graduated to contain

ORDERING INFORMATION:
Packed in shrink-wrapped trays.

Note: 2L size has molded-in handgrips.

COMPLIANCE:
Bottles and closures are certified radiation sterilized (SAL 10-6), nonpyrogenic and noncytotoxic, and comply with USP Class VI guidelines.

09-923-16 Series

Specifications	
Sterile	Yes
Material (Bottle)	PETG
Material (Closure)	High-density polyethylene
Color (Overall)	Clear
Color (Closure)	White
Graduation(s)	Molded-in
Mouth	Narrow

Capacity	Tray of	Height	Outside Dia.	Neck Finish	Mfr. No.	Cat. No.	Case of
30mL	40	64mm	38mm Square	20mm	342020-0030	**22-030-595**	280/431.00
60mL	40	84mm	41mm Square	24mm	342020-0060	**22-030-596**	200/369.75
125mL	24	109mm	53mm Square	38-430mm	342020-0125	**09-923-16A**	96/191.79
250mL	30	145mm	59mm Square	38-430mm	342020-0250	**09-923-16E**	60/188.30
500mL	20	178mm	74mm Square	38-430mm	342020-0500	**09-923-16B**	40/142.60
1000mL	12	218mm	92mm Square	38-430mm	342020-1000	**09-923-16C**	24/168.52
2000mL	6	271mm	117mm Square	53B	342020-2000	**09-923-16D**	12/187.20

Specialty - Microbiology

Thermo Scientific™ Nalgene™ Dilution Bottles, Polysulfone, Polypropylene Screw Closure

Clear and accurate

- Excellent chemical resistance to bases and weak acids — ideal for use with food products
- Useful for a wide range of temperatures -100°C (148°F) to +168°C (329°F)
- Transparent, so it's easy to read graduations at both 90mL (for 0.1 dilutions) and 99mL (for 0.01 dilutions) — accurate to ±0.1mL
- Autoclaving when used with Tween will reduce the life of this dilution bottle
- Autoclavable/Transparent/Leakproof†

02-945 Series

Capacity to Brim	Capacity to Neck	Closure Size	Mfr. No.	Cat. No.	Pack of 12	Case of 4 Pk.
7.25 oz. (210mL)	6.875 oz. (200mL)	28mm	2505-0280	**02-945-5A**	108.60	421.00
7.375 oz. (220mL)	7 oz. (205mL)	38mm	2505-0380	**02-945-45C**	123.20	499.00

Thermo Scientific™ Nalgene™ Dilution Bottles, Polypropylene Copolymer, Polypropylene Screw Closure

Comply with Standard Methods

- Excellent chemical resistance to strong acids, alcohols and bases — ideal for use with a wide variety of solutions
- Useful for a wide range of temperatures -40°C (-40°F) to +121°C (250°F)
- Translucent, so you can read graduations at both 90mL (for 0.1 dilutions) and 99mL (for 0.01 dilutions) — accurate to ±0.4mL
- Withstands repeated autoclaving even with Tween
- Autoclavable/Leakproof†

Left to right: 02-945-5C, -5A

Closure Size	Capac. to Neck	Capac. to Brim	Mfr. No.	Cat. No.	Pack of 12	Case of 4 Pk.
28mm	200mL (6.875 oz.)	210mL (7.25 oz.)	2505-0280	**02-945-4A**	108.60	277.50
38mm	205mL (7 oz.)	220mL (7.375 oz.)	2505-0380	**02-945-4B**	123.20	314.50

Kimax™-35 Milk Dilution Bottles

Designed from requirements for milk dilution bottles given in APHA Standard Methods for the Examination of Dairy Products

- Available plain or graduated at 99mL level with accuracy of ±1mL
- 5.5 oz. (160mL) capacity, square 45 × 45mm cross-section, smooth marking spot, and 28-400 GPI thread finish
- Autoclavable black phenolic screw cap with cemented-in rubber liner included

03-422-13

Style	Mfr. No.	Cat. No.	Case of 48
Plain	14915 160	**03-422-13**	541.00
Graduated	14925 160	**03-422-11**	455.00

Corning™ Milk Dilution Bottles

Narrow- or wide-mouth borosilicate glass bottles with or without graduations

- Available ungraduated or graduated at standard 99mL with accuracy of ±1mL
- Threaded neck with screw cap
- Capacity: 5.5 oz. (160mL)
- Autoclavable phenolic screw cap with glued-in rubber liner included

COMPLIANCE:
Meet requirements stated in APHA Standard Methods for the Examination of Dairy Products

02-943-5

Mouth	Mfr. No.	Cat. No.	Pack of 12	Case of 48
Graduated				
Narrow	1372 160	**02-944-5**	149.80	445.50
Wide	1373 160	**02-943-7**	169.60	505.50
Ungraduated				
Narrow	1367 160	**02-943-5**	109.10	324.00
Wide	1368 160	**02-943-6**	140.00	417.00

Thermo Scientific™ Security-Snap™ Sterile Coliform Water Sample Bottle; Polypropylene Bottle

Ideal for all types of bacteriological sampling, including coliform testing

- Polypropylene flip-top bottle with lock and seal lid design
- Non-toxic, non-autofluorescent
- Designed for total coliform and fecal coliform water sample analysis
- Certified sterile
- Available pre-charged with a 10mg sodium thiosulfate ($Na_2S_2O_3$) tablet for sample dechlorination, or without a tablet for unchlorinated water sources
- 100mL (±2.5 mL) fill line
- One (1) full inch of headspace above the fill line to facilitate mixing
- Break away seal provides evidence of unbroken sterility prior to opening the bottle
- Custody seal strap secures the Security-Snap lid, provides tamper evidence and eliminates the potential for accidental opening after sampling and during shipment to the lab

05-719-362

Includes:

Certified containers come with the following features:

- Certified sterile
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence

COMPLIANCE:
Certified sterile; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Closure Type	Preservation	Mfr. No.	Cat. No.	Case of 250
120mL	Security-Snap bottle	Certified	Sterile	Flip top	None	411-0125	**05-719-362**	187.80

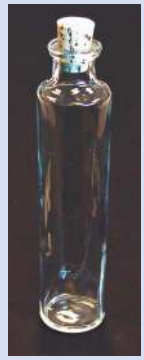
Specialty - Petroleum Testing

Fisherbrand® Clear Oil Sample Bottle

For process sampling in the petrochemical and refinery industries

- Clear glass for easy viewing of contents
- 4 oz. (125mL)
- Cork plug included

COMPLIANCE:
Clear, Type III soda-lime glass



02-911-472

Description	Cat. No.	Each
Clear Oil Sample Bottle	**02-911-472**	801.93

Specialty - Serum

Wheaton™ Serum Bottles and Vials

These bottles have exceptional wall strength and superior heat and chemical tolerances

Ideal for long- and short-term sample storage and vaccine/injectable drug containers.

- Clear borosilicate glass conforms to USP Type 1 requirements
- Amber borosilicate glass conforms to USP Type 1 requirements
- Shrink wrapped partitioned modules reduce breakage

Left to right: 06-406K, 06-406G, 06-406E

COMPLIANCE:
Meet requirements for Class A of the United States Pharmacopeia for Type I glass.

Capacity	Dia. × H	I.D. × O.D.	Mfr. No.	Cat. No.	Case of
Clear					
0.07 oz. (2mL)	17.5 × 35mm	7 × 13mm	223712	**06-406A**	288/189.50
0.25 oz. (5mL)	23 × 47mm	13 × 20mm	223738	**06-406C**	288/198.70
0.37 oz. (10mL)	25 × 54mm	13 × 20mm	223739	**06-406D**	288/284.15
0.68 oz. (20mL)	32 × 58mm	13 × 20mm	223742	**06-406E**	288/347.07
1 oz. (30mL)	37 × 63mm	13 × 20mm	223743	**06-406F**	288/418.38
1.68 oz. (50mL)	43 × 73mm	13 × 20mm	223745	**06-406G**	288/536.33
2.0 oz. (60mL)	41 × 91mm	13 × 20mm	223746	**06-406H**	144/293.08
3.43 oz. (100mL)	52 × 95mm	13 × 20mm	223747	**06-406J**	144/412.09
4.25 oz. (125mL)	54 × 107mm	13 × 20mm	223748	**06-406K**	144/579.84
Amber					
0.25 oz. (5mL)	23 × 47mm	13 × 20mm	223760	**06-402A**	288/357.57
0.37 oz. (10mL)	25 × 54mm	13 × 20mm	223761	**06-402B**	288/402.00
0.68 oz. (20mL)	32 × 58mm	13 × 20mm	223762	**06-402C**	288/455.00
1 oz. (30mL)	37 × 63mm	13 × 20mm	223763	**06-402D**	288/549.98
1.68 oz. (50mL)	43 × 73mm	13 × 20mm	223764	**06-402E**	288/710.50
3.43 oz. (100mL)	52 × 95mm	13 × 20mm	223766	**06-402F**	144/522.18

Wheaton™ Serum Tubing Vials

Available as clear and amber vials

Glass can withstand the challenges of reduced pressure and extreme temperature variations. Protects against changes in pH and maintain the purity of the contents.

- Clear vials made from low extractable borosilicate glass tubing to ensure uniform wall thickness
- Amber vials made from borosilicate glass conforms to USP Type 1 requirements to protect light-sensitive samples
- Withstand extreme temperature variations
- Necks finished for aluminum crimp seals
- Blowback feature of neck and specially designed bottom radius for lyophilization applications
- Packaged in shrink-wrapped modules to reduce particulate contamination

Left to right: 06-406-37, 06-446C, 06-446J, 06-446H, 06-446G

APPLICATIONS:
Lyophilization, packaging and sampling

COMPLIANCE:
Low extractable borosilicate glass meets ASTM™ Type 1, Class A and USP Type 1 standards

Capacity	Dia. × H	I.D. × O.D. at Mouth	Mfr. No.	Cat. No.	Case of
Clear					
0.07 oz. (2mL)	15 × 32mm	7 × 13mm	223683	**06-406-37**	144/71.73
0.10 oz. (3mL)	17 × 38mm	7 × 13mm	223684	**06-446C**	144/73.61
0.17 oz. (5mL)	22 × 40mm	13 × 20mm	223685	**06-446D**	144/93.64
0.34 oz. (10mL)	24 × 50mm	13 × 20mm	223686	**06-406-38**	144/107.90
0.68 oz. (20mL)	31 × 58mm	13 × 20mm	223687	**06-446E**	120/126.67
Amber					
0.07 oz. (2mL)	15 × 32mm	7 × 13mm	223693	**06-446G**	144/94.30
0.17 oz. (5mL)	22 × 40mm	13 × 20mm	223695	**06-446H**	144/108.80
0.34 oz. (10mL)	24 × 50mm	13 × 20mm	223696	**06-446J**	144/133.58

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Prices subject to change.

ACCESSORIES

Wheaton™ Stoppers for Serum Bottles and Vials

Provide airtight covers

06-447H

06-447E

06-447K

06-406-11B

- Five styles, in red natural rubber or gray butyl
- Flange-type stoppers are secured with aluminum crimp seals
- Slotted and three-prong plug stoppers are for freeze-dry applications

Inside Dia. × Outside Dia. at Mouth	Material	Mfr. No.	Cat. No.	Case of
Sleeve Style				
5 × 11mm	Polyisoprene Red Rubber	224100-020	**06-447A**	1000/207.00
7 × 13mm	Polyisoprene Red Rubber	224100-060	**06-406-10A**	1000/496.50
13 × 20mm	Polyisoprene Red Rubber	224100-161	**06-406-10B**	1000/456.50
15 × 30mm	Polyisoprene Red Rubber	224100-320	**06-451-60**	1000/702.50
2-leg Lyophilization Plug				
5 × 11mm	Natural Red Rubber	224100-030	**06-447B**	1000/155.00
7 × 13mm	Gray Chlorobutyl/50	224100-093	**06-447E**	1000/162.70
13 × 20mm	Natural Red Rubber	224100-172	**06-406-11B**	1000/216.52
13 × 20mm	Gray Chlorobutyl-Isoprene blend/50	224100-192	**06-451-56**	1000/294.50
3-leg Lyophilization Plug				
13 × 20mm	Gray Chlorobutyl/50	224100-202	**06-447H**	1000/235.93
Flange, Snap-on				
7 × 13mm	Natural Red Rubber	224100-080	**06-447C**	1000/175.20
7 × 13mm	Gray Chlorobutyl/45	224100-181	**06-447F**	1000/273.15
13 × 20mm	Natural Red Rubber	224100-180	**06-447K**	1000/279.50
Flange, Straight Plug				
7 × 13	Gray Chlorobutyl-Isoprene Blend/40 PTFE Faced	224100-072	**06-406-11D**	1000/842.50
13 × 20mm	Gray Chlorobutyl/45	224100-173	**06-447J**	1000/278.39
15 × 30mm	Natural Red Rubber	224100-330	**06-451-61**	1000/568.50
Thin Flange, 3-leg Plug				
Size: 20mm	Gray Chlorobutyl/55	224100-203	**06-451-55**	300/158.90
Locking flange Stopper				
Size: 33mm	Gray Chlorobutyl/50	240563	**06-450-59**	100/92.20

ACCESSORIES

Wheaton™ Aluminum Seals

06-406-15C

- Wide range of colors and styles
- Color selection includes natural, red, blue and green
- Open top seals expose stopper for sample retrieval with a syringe
- Tear-off seal removes completely allowing contents to pour from the bottle
- Solid top seals are excellent for long-term storage of samples
- Flip cap seals provide tamper evidence

Mouth O.D.	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
One-piece; Aluminum Seals				
20mm	224178-01	**11-126-12**	----	106.21
13mm	224182-01	**06-406-14A**	----	100.80
20mm	224183-01	**06-406-14B**	----	106.73
30mm	224187-01	**06-406-17**	----	150.20
TFE-lined on one side; Rubber Septa				
13mm	224222-01	**06-406-16**	----	549.50
20mm	224223-01	**06-406-15A**	184.70	1561.00
Tear-off				
20mm	224193-01	**06-406-15**	----	94.68
Flip Cap				
13mm	224202	**06-406-16C**	----	186.00
20mm	224203	**06-406-15B**	----	274.50
Tear Cap				
20mm	224208	**06-406-15C**	----	317.50

Fisher Scientific moving on Program

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Specialty - Wash

Fisherbrand® Safety-Labeled Right-to-Know Wash Bottles

Features wide mouth for easy filling

08-647-700 Series

Keep liquids in clearly marked bottles that help prevent accidental misuse. Both preprinted and "Label Your Own" bottles are available.

Preprinted bottles feature:

- Chemical name and formula
- Full color NFPA™ Diamond
- Health hazards
- CAS # (Chemical Abstract Services #)
- Suggested protective clothing and equipment
- Color caps enhance identification
- LDPE bottles with polypropylene caps
- "Label Your Own" bottles also available
- Sodium Hypochlorite (bleach) labeled bottles are white for light protection

COMPLIANCE:
Provides compliance with OSHA requirements outlined in Hazard Communication Standard 29 CFR 1910.1200

NOTES:
Use only with solvents compatible with LDPE; Sodium Hypochlorite (bleach) labeled bottles are white for light protection

Label	Cap	Cat. No.	Pack of
16 oz. (500mL)			
Assortment Pack†	N.A.	**08-647-700**	5/52.63
Acetone	Red	**08-647-701**	6/57.93
Distilled Water	Blue	**08-647-702**	6/57.93
Ethanol	Natural	**08-647-703**	6/59.77
Isopropanol	Yellow	**08-647-704**	6/57.93
Methanol	Green	**08-647-705**	6/57.93
Sodium Hypochlorite (Bleach)	Yellow	**08-647-706**	6/57.93
32 oz. (1000mL)			
Distilled Water	Blue	**08-647-714**	4/51.41
Ethanol	Natural	**08-647-715**	4/52.94
Isopropanol	Yellow	**08-647-716**	4/51.41
Methanol	Green	**08-647-717**	4/51.41
Sodium Hypochlorite (Bleach)	Yellow	**08-647-718**	4/51.41

†Assortment Pack contains one each of the following: Acetone, Ethanol, Isopropanol, Distilled Water and Methanol

Fisherbrand® Safety-Vented™ and Safety Labeled Right-to-Know Wash Bottles

Patented valve eliminates drips and allows bottle to dispense upright or inverted

- Preprinted bottles feature:
  - Keep liquids in clearly marked bottles that help prevent accidental misuse
  - Chemical name and formula
  - Full color NFPA™ Diamond
  - Health hazards
  - CAS # (Chemical Abstract Services #)
  - Suggested protective clothing and equipment
- Wide mouth for easy filling
- Color caps enhance identification
- LDPE bottles with polypropylene valves
- 16 oz. (500mL)
- "Label Your Own" bottles also available
- Sodium Hypochlorite (bleach) labeled bottles are white for light protection

08-647-700 Series

COMPLIANCE:
Provides compliance with OSHA requirements outlined in Hazard Communication Standard 29 CFR 1910.1200

NOTES:
Use only with solvents compatible with LDPE

Label	Cap	Cat. No.	Pack of 6
Assortment Pack†	N.A.	**08-647-707**	73.13
Acetone	Red	**08-647-708**	73.13
Distilled Water	Blue	**08-647-709**	75.70
Ethanol	Natural	**08-647-710**	75.70
Isopropanol	Yellow	**08-647-711**	73.13
Methanol	Green	**08-647-712**	73.13
Sodium Hypochlorite (Bleach)	Yellow	**08-647-713**	75.70

†Assortment Pack contains one each of the following: Acetone, Ethanol, Isopropanol, Distilled Water, Methanol and Bleach

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Prices subject to change.

Fisherbrand® Safety-Labeled Wash Bottles

Molded leakproof polyethylene bottles with wide mouth for easy filling

03-409-23 Series

- Easy-to-read, color-coded silkscreened labels ensure instant identification and include:
  - Department of Transportation (DOT) and National Fire Protection Association (NFPA™) codes and symbols
  - Chemical Abstract Service (CAS) numbers where applicable
  - Protective equipment
  - Target organ information
- Inks resist chemical to be contained
- Provides compliance with OSHA requirements outlined in Hazard Communication Standards 29 CFR 1910.1200

ORDERING INFORMATION:
Available in cases of six, all with the same label, or in a six-bottle assortment: one 500mL bottle each of acetone, ethanol, isopropanol, methanol, toluene and water.

NOTES:
Use only with solvents compatible with LDPE

Description	Cat. No.	Pack of 6
Acetone	**03-409-23A**	40.05
Acetone (1000mL)	**03-409-23Q**	50.60
Bleach	**03-409-23L**	39.65
Deionized Water	**03-409-23M**	39.75
Distilled Water	**03-409-23K**	39.75
Ethanol	**03-409-23B**	39.65
Isopropanol	**03-409-23C**	40.05
Machine Oil	**03-409-23R**	37.80
Methyl Ethyl Ketone	**03-409-23S**	40.05
Methanol	**03-409-23D**	39.10
Saline	**03-409-23J**	39.75
Soap	**03-409-23P**	39.65
Toluene	**03-409-23E**	38.85
Universal	**03-409-23N**	39.75
Water	**03-409-23G**	39.65
Variety Pack (includes: methanol, isopropanol, water, acetone, toluene, ethanol)	**03-409-23H**	39.75

Fisherbrand® Solvent-Vented™ and Safety-Labeled Wash Bottles

Patented valve eliminates drips and allows bottle to dispense upright or inverted

03-409-37, -35, -33, -36

- Pre-printed with chemical name and formula, the National Fire Protection Association (NFPA) Section 704 Four-Color Diamond, health hazards, Chemical Abstract System (CAS) number, and suggested protective clothing and equipment
- Wide mouth 2" (53mm) bottle for easy refilling
- Polypropylene closure with leakproof design, color-coded to aid in easy identification
- Translucent, LDPE solvent-resistant; Sodium Hypochlorite is white LDPE for light-protection between 230 and 450nm; Toluene is red LDPE bottle
- Provides compliance with OSHA requirements outlined in Hazard Communication Standard 29 CFR 1910.1200
- Labeled with six of the most commonly used solvent names or label your own; custom labeling available

ORDERING INFORMATION:
Prelabeled with six common solvents; also available unlabeled.

NOTES: Use LYOB only with solvents compatible with LDPE.

Label Description	Cat. No.	Pack of 3
Acetone	**03-409-37**	29.70
Ethanol	**03-409-36**	29.50
Ethyl Acetate	**03-409-30**	30.35
Isopropanol	**03-409-35**	29.70
Methanol	**03-409-33**	29.50
Methyl Ethyl Ketone (MEK)	**03-409-31**	27.75
Unlabeled	**03-409-34**	29.35

Fisherbrand® Translucent White Wash Bottles

Versatile bottles deliver single drop or fine stream

- LDPE with one-piece polypropylene screw cap and nozzle
- Tip may be cut back to increase flow

03-409-23T

Capacity	Cat. No.	Pack of	Case of
4 oz. (125mL)	**03-409-22A**	6/31.77	8 Pk./217.26
8 oz. (250mL)	**03-409-23T**	6/35.86	6 Pk./183.91
16 oz. (500mL)	**03-409-22C**	6/41.38	4 Pk./141.48
32 oz. (1000mL)	**03-409-22D**	4/27.49	3 Pk./70.48

Fisherbrand® 500mL Easy-Squeeze Wash Bottles

Easy to fill and ready to use

- Wide mouth
- Translucent and sputter-free
- With easy-to-read color-coded silk-screened labels
- Tips can be cut back to increase flow
- When not in use, bottles relieve internal pressure without dripping

02-897-7, -11

Label information includes:

- Chemical name
- National Fire Protection Association (NFPA) codes and symbols
- Chemical Abstracts Service (CAS) number
- Hazard codes
- Laboratory protective equipment information
- Target organ information
- Recommended fill level
- LDPE recycling code
- Bottle volume capacity "For Dispensing Only, Not Recommended For Storage" statement

ORDERING INFORMATION:
Available in cases of six, all with the same label; in a six-bottle Solvent Pack (one each labeled acetone, deionized water, ethanol, isopropanol, methanol and universal); or six-bottle Cleaning Pack (one each labeled acetone, bleach, deionized water, saline, soap and universal bottles).

INCLUDES:
Come with colored polypropylene closures with PTFE membrane (except 02-897-2, which has an HDPE closure).

NOTES:
Not recommended for use above 60°C (140°F).

Description	Cat. No.	Case of 6
Acetone	**02-897-1**	45.10
Bleach	**02-897-2**	45.10
Deionized Water	**02-897-3**	45.10
Distilled Water	**02-897-4**	45.10
Ethanol	**02-897-5**	45.10
Isopropanol	**02-897-6**	45.10
Methanol	**02-897-7**	45.10
Saline	**02-897-8**	45.10
Soap	**02-897-9**	45.10
Universal	**02-897-10**	45.10
Water	**02-897-11**	45.10
Solvent Pack	**02-897-12**	45.10
Cleaning Pack	**02-897-13**	45.10

Thermo Scientific™ Nalgene™ Right-To-Know Narrow-Mouth Wash Bottles; White LDPE or PPCO Bottle, PP or PPCO Closure, PPCO Fill Tube

Flexible for convenient dispensing, translucent for viewing contents

03-409-11 Series

LDPE bottles have narrow mouth, one-piece molded closure and spout, draw tube welded to closure so they can't separate. Sodium Hypochlorite bottle is white LDPE with HDPE closure for light-protective barrier qualities between 280 and 450nm; all others have polypropylene closures. Bottles are self-venting, but contents stay in the bottle with no risk of leakage. Feature chemical name, International Chemical Society (ICS) chemical formula and Chemical Abstract Service (CAS) number. Each bottle has a color bar which corresponds to its colored closure to prevent cross-contamination. Designed to dispense through the top with a closure and stem molded in one piece for uniform leakproof service. Tip can be cut back to increase flow. Tight fit of draw tube and closure prevents separation when squeezing bottle.

- With polypropylene or high-density polyethylene closure, polypropylene copolymer fill tube
- Self-venting, but contents stay in the bottle with no risk of leakage
- Chemical name, International Chemical Society (ICS) chemical formula and Chemical Abstract Service (CAS) number printed on bottle for easy identification
- Each bottle has a color bar which corresponds to its colored closure to prevent cross-contamination
- Designed to dispense through the top with a closure and stem molded in one piece for uniform leakproof service
- Tip can be cut back to increase flow. Tight fit of draw tube and closure prevents separation when squeezing bottle
- Leakproof†

ORDERING INFORMATION:
Available in packs of the same 16 or 32 oz. (500 or 1000mL) bottle, or in a 5-bottle (16 oz./500mL only) assortment pack consisting of one each acetone, ethyl alcohol, isopropanol, methanol and distilled water.

COMPLIANCE:
Meet requirements of OSHA Hazard Communication Regulation [29 CFR 1910.1200(f)(4)].

Description	Mfr. No.	Cat. No.	Pack of	Case of
16 oz. (500mL) Capacity; 28mm Closure Size				
Acetone	2425-0501	**03-409-11A**	6/71.43	4 Pk./189.12
Ethyl Alcohol	2425-0502	**03-409-11B**	6/74.50	4 Pk./193.70
Isopropanol	2425-0504	**03-409-11D**	6/74.50	4 Pk./193.70
Methanol	2425-0503	**03-409-11C**	6/70.92	4 Pk./188.91
Distilled Water	2425-0505	**03-409-11E**	6/74.50	4 Pk./193.70
Sodium Hypochlorite (Bleach)	2425-0506	**03-409-9A**	6/70.92	4 Pk./188.91
Assorted	2425-0500	**03-409-11L**	5/61.42	4 Pk./163.87
32 oz. (1000mL) Capacity; 38mm Closure Size				
Ethyl Alcohol	2425-1002	**03-409-11G**	4/62.80	3 Pk./125.50
Isopropanol	2425-1004	**03-409-11J**	4/62.80	3 Pk./125.50
Methanol	2425-1003	**03-409-11H**	4/62.80	3 Pk./125.50
Distilled Water	2425-1005	**03-409-11K**	4/62.91	3 Pk./125.71
Sodium Hypochlorite (Bleach)	2425-1006	**03-409-11N**	4/59.29	3 Pk./118.54

Thermo Scientific™ Nalgene™ Vented Unitary™ Right-To-Know Wash Bottles; LDPE Bottle, PP or HDPE Closure, PTFE Membrane

Keep hazardous volatile liquids in the bottle and off the lab bench

03-409 Wash Bottles Series

Choose from six different chemicals. White closure for sodium hypochlorite (bleach) is HDPE.

- With polypropylene or high-density polyethylene closure, polytetrafluoroethylene membrane
- Bottle and tubulation molded in one piece to prevent chemical splash when removing closure and contamination when filling
- Unique 38mm colored vented closure designed to prevent dripping
- Sturdy polypropylene closures (HDPE on Sodium Hypochloride bottles)
- Color-coded bar corresponds to closure, preventing cross-contamination
- Prelabeled with ICS name and formula, as well as NFPA symbols for chemical handling, hazard, care and storage of six commonly-used chemicals
- Leakproof†

COMPLIANCE:
Meet OSHA requirements for workplace chemical container labeling.

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
Acetone (Red)				
8 oz. (250mL)	2436-0251	**03-409-19A**	4/54.70	9 Pk./320.00
16 oz. (500mL)	2436-0501	**03-409-20A**	4/57.90	6 Pk./225.50
32 oz. (1000mL)	2436-1001	**03-409-21A**	2/48.20	6 Pk./187.90
Distilled Water (Natural)				
8 oz. (250mL)	2436-0255	**03-409-19E**	4/54.70	9 Pk./320.00
16 oz. (500mL)	2436-0505	**03-409-20E**	4/57.10	6 Pk./222.50
32 oz. (1000mL)	2436-1005	**03-409-21E**	2/48.15	6 Pk./187.60
Ethyl Alcohol (White)				
16 oz. (500mL)	2436-0502	**03-409-20B**	4/57.90	6 Pk./225.50
Isopropanol (Yellow)				
16 oz. (500mL)	2436-0504	**03-409-20D**	4/57.90	6 Pk./225.50
Methanol (Green)				
16 oz. (500mL)	2436-0503	**03-409-20C**	4/57.90	6 Pk./225.50
32 oz. (1000mL)	2436-1003	**03-409-21C**	2/38.77	6 Pk./159.67
Sodium Hypochlorite (Bleach, White)				
16 oz. (500mL)	2436-0506	**03-409-20F**	4/57.90	6 Pk./225.50

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location. Visit **www.fishersci.com/movingon** to learn more.

Thermo Scientific™ Nalgene™ Economy Wash Bottles; LDPE, PP Screw Closure/Stem, PPCO Draw Tube

Through-the-top tubing with closure and stem molded in one piece

03-409-10 Series

- Designed to dispense uniformly through the top with a closure and stem molded in one piece for leakproof service
- Tip can be cut back to provide increased flow
- Tight fit of draw tube and closure prevents separation when squeezing bottle
- Leakproof†

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
4 oz. (125mL)	2401-0125	**03-409-10AA**	6/32.46	8/173.06
8 oz. (250mL)	2401-0250	**03-409-10BB**	6/38.70	6/150.90
16 oz. (500mL)	2401-0500	**03-409-10CC**	6/46.65	4/121.40
32 oz. (1000mL)	2401-1000	**03-409-10DD**	4/39.50	3/77.10

Thermo Scientific™ Nalgene™ Wash Bottles; Teflon™ FEP bottle, Tefzel™ ETFE Screw Closure/Stem and Draw Tube

Highly chemical resistant; molded entirely of fluoropolymers

03-409-12 Series

With Tefzel™ ETFE screw closure/stem and draw tube.

- Demonstrates excellent chemical resistance to nearly any chemical in your lab including solvents — won't embrittle or crack
- Inert fluoropolymer construction is low in extractables and low binding — useful for trace element work
- Designed to dispense uniformly through the top with a closure and stem molded in one piece for leakproof service
- Tip can be cut back to provide increased flow
- Tight fit of draw tube and closure prevents separation when squeezing bottle
- Autoclavable/leakproof†/PTGE FEP/transparent

Capacity	Closure Size	Mfr. No.	Cat. No.	Case of
4 oz. (125mL)	24	2403-0125	**03-409-12A**	4/425.00
8 oz. (250mL)	24	2403-0250	**03-409-12C**	4/636.50
16 oz. (500mL)	38-430	2403-0500	**03-409-12E**	4/865.00
32 oz. (1000mL)	38-430	2403-1000	**03-409-12G**	2/541.50

Thermo Scientific™ Nalgene™ Autoclavable Wash Bottles; PPCO Bottle, PP Screw/Stem and Draw Tube

Reduce risk of contamination

With polypropylene screw/stem and draw tube.

- Designed to dispense uniformly through the top with a closure and stem molded in one piece for leakproof service
- Tip can be cut back to provide increased flow
- Tight fit of draw tube and closure prevents separation when squeezing bottle
- Autoclavable/leakproof†

03-409-14C, 14A Series

Capacity	Closure Size	Mfr. No.	Cat. No.	Pack of	Case of
500mL	28mm	2405-0500	**03-409-14A**	6/83.30	4 Pk./216.50
1000mL	38mm-430	2405-1000	**03-409-14C**	4/75.07	3 Pk./150.14

Thermo Scientific™ Nalgene™ Unitary™ Wash Bottles; LDPE Bottle/Tubulation, PP Screw Closure

Designed with a wide mouth for faster, easier filling

- Bottle and tubulation are molded in one piece for uniform leakproof service
- Tip delivers a uniform ultrafine stream without sputtering, but can also be cut back to increase flow
- Contents can be dispensed without tipping or shaking
- Leakproof†

03-409 Bottles Series

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
4 oz. (125mL)	2402-0125	**03-409-10C**	6/47.75	8 Pk./248.50
8 oz. (250mL)	2402-0250	**03-409-10D**	4/36.25	9 Pk./212.50
16 oz. (500mL)	2402-0500	**03-409-10E**	4/44.25	6 Pk./172.40
24 oz. (750mL)	2402-0750	**03-409-10EE**	4/54.60	6 Pk./213.50
32 oz. (1000mL)	2402-1000	**03-409-10F**	2/32.70	6 Pk./127.50

Specialty - Weighing

Fisherbrand® Weighing Bottles

Two types of rugged glass bottles

- Lamp-blown glass
- Sturdy bottoms prevent chipping and facilitate cleaning

03-415E, 03-420A

Approx. Capacity	I.D. × H	Cat. No.	Each	Pack of 12
Tall, Cylindrical Form				
10mL	25 × 40mm	**03-415B**	73.41	607.55
16mL	25 × 50mm	**03-415C**	80.38	665.34
30mL	30 × 60mm	**03-415E**	77.10	647.00
70mL	40 × 80mm	**03-415H**	130.05	1075.58
Low, Flat Form				
35mL	50 × 30mm	**03-420A**	173.90	1460.00
50mL	60 × 30mm	**03-420B**	152.40	1279.00
82mL	70 × 33mm	**03-420C**	226.00	1874.00

Kimax™ Low-Form Weighing Bottles

Low-form cylindrical weighing bottles

Plug-style stopper with closed bottom fits into internally ground body.

COMPLIANCE:
Designed from Fed. Spec. NNN-B-1493, Type I, Style III.

03-420-5A

Approx. Capacity	I.D. × H	$ Joint No.	Mfr. No.	Cat. No.	Case of 6
35mL	50 × 30mm	50/12	15165 5030	**03-420-5A**	283.50
50mL	60 × 30mm	60/12	15165 6030	**03-420-5B**	332.50
82mL	70 × 33mm	71/15	15165 7033	**03-420-5C**	377.00

ON THE WEB...

Looking for a Bottle Carrier?

Visit www.fishersci.com and search for Safety Bottle Carrier

Closures

Fisherbrand® White Polypropylene Caps with PTFE Liners

For use with analytical lab samples, high-purity chemicals, strong acids and solvents

Economical caps ideal for environmental samples, pharmaceuticals and diagnostic reagents

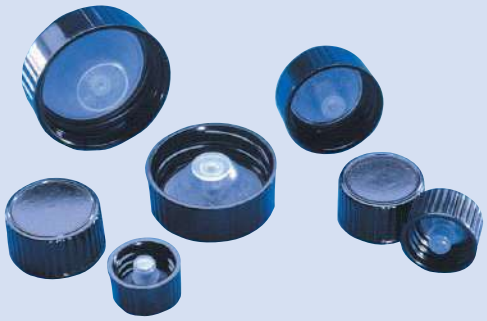
- Screw cap sizes for narrow- and wide-mouth bottles

02-911 and 02-912 Series Caps

Size	Cat. No.	Pack of	Case of
8mm-425	**02-912-102**	500/202.50	----
13mm-425	**02-912-064**	100/75.41	5 Pk./270.11
15mm-425	**02-912-065**	500/281.50	----
18mm-400	**02-912-066**	100/71.00	5 Pk./259.50
20mm-400	**02-912-067**	100/102.73	5 Pk./368.35
22mm-400	**02-912-068**	500/511.00	----
24mm-400	**02-912-069**	100/206.67	5 Pk./725.38
28mm-400	**02-912-070**	100/276.50	5 Pk./1010.00
28mm-400	**02-912-044**	3000/3330.00	----
33mm-400	**02-912-071**	100/279.00	5 Pk./1020.00
33mm-400	**02-911-836**	2100/3120.51	----
38mm-400	**02-912-072**	500/1232.00	----
43mm-400	**02-912-073**	500/1226.00	----
45mm-400	**02-912-074**	500/1310.00	----
48mm-400	**02-912-075**	100/439.00	5 Pk./1605.00
53mm-400	**02-912-076**	100/526.50	5 Pk./1896.00
58mm-400	**02-912-077**	100/605.68	5 Pk./2138.31
63mm-400	**02-912-085**	288/1151.00	----
70mm-400	**02-912-078**	144/793.00	----

Fisherbrand® PE Cone-Lined Polyethylene Caps

Stress-crack resistant, black caps



02-911 and 02-912 Series PE Cone-Lined Plastic Caps

- Manufactured from LDPE

Size	Cat. No.	Pack of	Case of
13mm-425	**02-912-057**	576/253.00	----
15mm-425	**02-912-058**	576/259.50	----
18mm-400	**02-912-059**	12/13.11	48 Pk./447.61
20mm-400	**02-912-054**	576/457.86	----
20mm-400	**02-911-803**	5500/2170.00	----
22mm-400	**02-912-056**	12/10.52	48 Pk./359.10
24mm-400	**02-912-055**	12/12.66	48 Pk./426.16
24mm-400	**02-911-806**	4200/1852.00	----
24mm-410	**02-912-060**	576/339.00	----
28mm-400	**02-912-061**	12/13.68	48 Pk./466.03
28mm-400	**02-912-101**	3100/953.50	----
33mm-400	**02-912-062**	12/15.61	48 Pk./533.07
33mm-400	**02-912-091**	2300/865.00	----
38mm-400	**02-912-063**	12/34.99	48 Pk./1174.57
38mm-400	**02-911-727**	1600/1337.00	----

Thermo Scientific™ Nalgene™ Colored Closures – Polypropylene

Reduces the chance for cross contamination

- Reduce chance of cross contamination
- Opaque white, amber, green, red and blue closures protect contents from UV light when used with opaque Nalgene bottles
- One-piece, linerless, with integrally molded seal ring
- Fit Nalgene narrow-mouth 8, 15, 30, 60mL bottles
- Well-defined closure knurl makes gripping and capping easy
- Guarantee leakproof†, when used with Nalgene narrow-mouth bottles

362150 Series

ORDERING INFORMATION:
Case of 2000.

COMPLIANCE:
Closures meet FDA CFR21 177.1520 for food and beverage use. All raw materials used in their production meet CONEG regulations for heavy metal content.

Closure Color	Finish	Mfr. No.	Cat. No.	Case of 2000
Natural	20-415mm	362150-0200	**03-700-27**	419.00
White	20-415mm	362150-1200	**02-923-143**	400.33
Green	20-415mm	362150-4200	**N3621504200**	419.00
Red	20-415mm	362150-5200	**02-923-286**	412.50
Blue	20-415mm	362150-6200	**02-923-287**	412.50
Amber	20-415mm	362150-7200	**03-700-29**	419.00

Corning™ Black Phenolic Threaded Screw Cap with PTFE Liner

Resist temperature and steam in autoclaving

Phenolic screw caps have glued-in rubber lining firmly bonded to an interface of PTFE, providing a highly inert sealing face.

02-883-8C

Size	Mfr. No.	Cat. No.	Case of
13mm-415	9998 13	**02-883-8C**	288/327.08
15mm-415	9998 15	**02-883-8D**	288/327.08
18mm-415	9998 18	**02-883-8E**	192/275.00
24mm-410	9998 241	**02-883-8B**	144/352.50
24mm-400	9998 24	**02-883-8A**	12/46.55

DURAN™ Laboratory Premium Caps

From TpCh260 (similar to PFA) with PTFE coated silicone seal and pouring ring of TpCh260

09-841-062

- Compound formulated without color dye to avoid risk of leaching
- Service temperature limit from -196°C to +260°C
- Very high chemical resistance
- High leak tightness through use of PTFE coated silicone seal
- DMF (no. 19757, in conjunction with premium bottle) available upon request

APPLICATIONS:
Due to its properties, ideal for applications in the pharmaceutical industry, handling of aggressive media, demanding sterilization processes such as hot air or dry sterilization and depyrogenation.

Description	Mfr. No.	Cat. No.	Each
Height: 32mm; GL25	1129600	**09-841-064**	42.10
Height: 26mm; GL45	1088679	**09-841-062**	79.40
Height: 4mm; GL45	1088678	**09-841-063**	20.20

DURAN™ Laboratory DG Safety Caps

Screw cap GL 45 with one, two or three ports

High-quality and flexible connection system, specifically designed for handling aggressive, gas-generating media.

09-841-034

Materials used: PP, PBT and PTFE

- All parts coming into contact with media are from PTFE
- Three different hose diameters (1.6mm; 2.3mm; 3.2mm) can be connected
- Pressure equalization is possible through use of membrane filter
- Outgassing of media is reduced by use of a one-way valve that decreases media loss and protects the user from vapors
- A free moving PTFE core prevents rotation of the hoses when screwing onto the DURAN bottle
- Unused ports can be provided with a blind cap. Optionally available with stopcock to prevent running dry of the hoses or air intakes during bottle changeover
- DG safety caps are also available for bottles with standard ground joint

Description	Mfr. No.	Cat. No.	Each
Caps			
Safety cap; 1 port	1168401	**09-841-029**	258.55
Safety cap; 2 port	1168402	**09-841-030**	297.50
Safety cap; 3 port	1168413	**09-841-031**	306.32
Safety cap with stopcock; 1 port	1168414	**09-841-032**	372.77
Safety cap with stopcock; 2 port	1168415	**09-841-033**	414.31
Safety cap with stopcock; 3 port	1168416	**09-841-034**	486.99
Safety cap for NS29/32	1168417	**09-841-035**	289.70
Accessories			
PP spare fitting	1168427	**09-841-040**	63.17
Venting valve	1168430	**09-841-041**	84.97
Screw plug PTFE UNF 1/4	1168428	**09-841-048**	136.11
Ferrule; 1.6mm I.D.	1168421	**09-841-049**	81.78
Ferrule; 2.3mm I.D.	1168422	**09-841-050**	81.78
Ferrule; 3.2mm I.D.	1168423	**09-841-051**	81.78
Fitting with ferrule; 2.3mm I.D.	1168424	**09-841-052**	205.64
Fitting with ferrule; 1.6mm I.D.	1168425	**09-841-053**	205.64
Fitting with ferrule; 3.2mm I.D.	1168426	**09-841-054**	205.64
Tool for PP connection system fitting	1168451	**09-841-055**	36.59
Tool for PTFE connection system fitting	1168450	**09-841-056**	36.59
Screw plug for leak hose	1168429	**09-841-057**	42.70
PTFE membrane filter	1168431	**09-841-058**	10.60

DURAN™ GL 45 Stirred Reactor

Drive using standard magnetic stirrers

- Variable stirrer shaft, can be used for 500mL and 1000mL DURAN GL 45 laboratory glass bottles
- Can be used up to 500 rpm
- Completely autoclavable
- Temperature resistant up to 140°C
- Compatible with the proven DURAN connection systems; hoses with bores from 1.6mm to 6.0mm can be fitted
- Significantly improved through mixing compared to standard magnetic stirring bar
- Materials used: PP/PTFE/PEEK/stainless steel
- Parts in contact with media conform fully to FDA requirements

APPLICATIONS:
Mixing processes in laboratories, (e.g., mixing liquids or dissolving solids

09-841-022

Description	Mfr. No.	Cat. No.	Each
Complete sets†			
500mL bottle	1200395	**09-841-022**	393.50
1000mL bottle	1200396	**09-841-023**	403.50
Accessories			
Spare blue PP screw cap	1200390	**09-841-024**	95.66
Folding magnetic stirrer including shaft	1200391	**09-841-025**	341.62

†Include GL 45 bottle, folding magnetic stirrer and GL 45 PP cap with 2 x GL 14 ports, 2 x GL 14 PBT caps red

DURAN™ GLS 80 Stirred Reactors

Suitable for a wide range of laboratory mixing processes

Drive using standard magnetic stirrers.

- Variable stirrer shaft can be used for 1000 and 2000mL DURAN GLS 80 laboratory glass bottles
- Stirrer element exchangeable (stirrer impeller type available as accessory)
- Can be used up to 500 rpm
- Completely autoclavable
- Temperature resistant up to 140°C
- Compatible with the proven DURAN connection systems; hoses with bores from 1.6 mm to 12.0 mm can be fitted
- Significantly improved through mixing compared to standard magnetic stirring bar
- Materials used: PP/PTFE/PEEK/ stainless steel
- Parts in contact with media conform fully to FDA requirements
- 4 ports: 2 × GL 18, 2 × GL 14

APPLICATIONS:
Mixing processes in laboratories, (e.g., mixing liquids or dissolving solids)

09-841-016

Description	Mfr. No.	Cat. No.	Each
Complete sets†			
1000mL bottle	1200380	**09-841-016**	443.00
2000mL bottle	1200381	**09-841-017**	445.55
Accessories			
Stirred reactor cap, magnetic stirrer anchor with shaft connection and screw cap	1200379	**09-841-015**	424.00
Magnetic impeller stirrer	1200382	**09-841-018**	321.00
Magnetic anchor stirrer	1200383	**09-841-019**	312.54
Spare 4- port screw cap, PP, blue/gray	1200385	**09-841-020**	118.66
Spare stainless-steel shaft, including PEEK connection	1200386	**09-841-021**	79.66

†Includes bottle, GL 14 PP screw cap blue, 2 x GL 14 PBT screw cap red, 2 x GL 18 PBT screw cap red

DURAN™ Laboratory DG Safety Waste Caps

Additional connection option for activated carbon filter and leak hose

The activated carbon filter prevents the escaping of hazardous gases and thus increases safety in the laboratory.

- Materials used: PP, PBT and PTFE
- Optional special connection for installations with a leakage system
- A free-moving PTFE core prevents rotation of the hoses when screwing onto the DURAN bottle
- Unused ports can be provided with a blind cap

09-841-036

APPLICATIONS: Safe storage and collection of liquid laboratory waste.

Description	Mfr. No.	Cat. No.	Each
Safety waste cap; Without hose	1168418	**09-841-036**	199.00
Safety waste cap; With hose	1168420	**09-841-037**	231.07

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DURAN™ Laboratory Glass Ceramic Lab Protection Plate

Glass ceramic material with a smooth, pore-free surface.

09-841-027

- Chemically resistant and operates between -200 and +700°C.
- Ideal for use as a bench protector or heating surface in place of a wire gauze or pipeclay triangle

Description	Mfr. No.	Cat. No.	Each
155 × 155mm	238215703	**09-841-027**	318.50
175 × 175mm	238215806	**09-841-028**	351.35
135 × 135mm	238215309	**09-841-026**	288.50

DURAN™ Laboratory Square Quadrupod for Glass Ceramic Lab Protection Plate

Four footed stands

- Nickel chromium steel; for glass ceramic laboratory plates
- Available in 3 sizes

09-841-059

Description	Mfr. No.	Cat. No.	Each
135 × 135mm	290775302	**09-841-059**	209.97
155 × 155mm	290775705	**09-841-060**	236.34
175 × 175mm	290775808	**09-841-061**	284.51

DURAN™ Laboratory Thread Adapters

Adapters are available for GL 40, GL 38 and GL 32 screw threads.

Description	Mfr. No.	Cat. No.	Each
GL32/GL45; PP	1168449	**09-841-047**	105.41
GL38/GL45; PP	1168447	**09-841-045**	105.41
GL40/GL45; PP	1168445	**09-841-043**	105.41
GL32/GL45; PTFE	1168448	**09-841-046**	137.06
GL38/GL45; PTFE	1168446	**09-841-044**	137.06
GL40/GL45; PTFE	1168444	**09-841-042**	137.06

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Prices subject to change.

Brushes

Beaker

Fisherbrand® Heavy-Duty Brushes

Spiral-wound bristles for cleaning beakers

- Extra-heavy tuft end
- Wooden handle

03-541-5

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
12" (30.48cm)	4 × 2.25" (10 × 6.4cm)	**03-541**	42.12	12/376.57
16" (40.64cm)	5 × 3" (13 × 7.6cm)	**03-541-5**	55.22	12/494.31

Fisherbrand® Low-Cost Brush

Economical brush for beakers

- Two rows of bristles provide slightly oval shape
- End tuft for cleaning corners
- Wooden handle

03-555

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
16" (40.64cm)	6 × 3" (15.24 × 7.6cm)	**03-555**	33.14	12/329.37

Fisherbrand® White Nylon Bristle Brush

Heavy-duty brush for cleaning beakers, jars and similar containers

- Extra-heavy bristle with double-tufted end
- Wooden handle
- Chemical-resistant

03-536

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
16" (40.64cm)	5 × 2.87" (12.7 × 7.2cm)	**03-536**	79.58	6/395.85

Flask

Fisherbrand® Adaptable-to-Container Brush

Useful for cleaning a wide variety of glassware

- Single-row bristles
- Attached to heavy wire handle by swivel joint
- Handle with ring for hanging

03-565

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
12" (30.48cm)	4.25 × 1.5" (10.79 × 3.81cm)	**03-565**	19.03	12/189.50

Fisherbrand® Brush with Extension for Flask Curves

For cleaning bottom curves and inside shoulders of flasks and bottles

- White unbleached hog bristles
- Extended bristled end
- Plastic shaft and handle

03-571-5

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
16" (40.64cm)	4 × 1.5" (10.16 × 3.81cm)	**03-571-5**	26.34	12/269.60

Fisherbrand® Flexible-Handle Brushes

Soft, single row of bristles fits easily into flask necks

- Plastic handle bends to allow fitting of bristles to container shape
- Handle has hanging ring

03-570A

Flask Size	Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
250mL	12" (30.48cm)	3.5 × 1.37" (8.9 × 3.5cm)	**03-570A**	20.22	12/207.35
500mL	14" (35.56cm)	4 × 1.5" (10 × 3.8cm)	**03-570B**	21.33	12/209.12
1000mL	17" (43.18cm)	5 × 1.75" (12.7 × 4.4cm)	**03-570C**	25.57	12/254.63

Test Tube

Fisherbrand® Budget-Priced Brushes

Economical brushes for test tubes

- 03-576 is nylon with radial tufted end; rest are unbleached white hog bristles
- Galvanized wire handles resist rust and corrosion

03-573

Overall Length	Bristle L × Dia.	Cat. No.	Price	Case of
10.5" (26.67cm)	4 × 1.37" (10 × 3.5cm)	**03-573**	Ea./5.23	144/561.80
9.5" (24.13cm)	3.5 × 0.75" (8.9 × 1.9cm)	**03-574**	12 Pk./56.13	12 Pk./539.98
9" (22.86cm)	3 × 0.43" (7.6 × 1.1cm)	**03-576**	12Pk./49.68	12 Pk./478.57

Fisherbrand® Nylon Tufted Brush

Unbleached bristles with tuft for test tubes

- Unbleached white hog bristles
- Black, nylon tuft, 1" (2.5cm)
- Galvanized wire handle

03-590

Overall Length	Bristle L × Dia.	Cat. No.	Pack of	Case of
10" (25.4cm)	3 × 1.37" (7.6 × 3.5cm)	**03-590**	12/89.08	12 Pk./887.09

Fisherbrand® Stainless-Steel Handled Brushes

Stiff, white nylon bristles for cleaning test tubes

- Bristles are chemical-resistant
- Radial tufted end
- Stainless-steel handle is rustproof, corrosion resistant

03-572-5

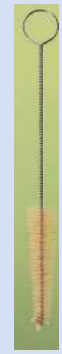
Overall Length	Bristle L × Dia.	Cat. No.	Pack of	Case of
11" (27.94cm)	4 × 1.37" (10 × 3.5cm)	**03-572-5**	12/116.12	12 Pk./1199.73
9" (22.86cm)	3.5 × 0.75" (8.9 × 1.9cm)	**03-578**	12/86.58	12 Pk./891.68

Special Purpose Brushes

Fisherbrand® Tube Brush

For 15mL centrifuge tubes

- Tapered bristle portion, 0.5" dia. (1.3cm) at tip
- Galvanized wire handle



03-608

Overall Length	Bristle L × Dia.	Cat. No.	Pack of	Case of
9" (22.86cm)	3.5 × 0.81" (8.9 × 2cm)	**03-608**	12/44.30	12 Pk./441.02

Fisherbrand® Funnel or Graduate Brush

Two rows of tapered bristles

- Bristles securely fastened to flat metal strip which inserts into black plastic handle
- Tapered bristle section

03-560

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
13" (33cm)	6 × 2.25" (15.2 × 5.7cm)	**03-560**	49.30	12/500.84

Fisherbrand® Nessler Tube Brushes

For low-form Nessler tubes

- Full bristles to make complete contact with cylinder walls and bottom
- 03-621A is natural black bristle; other is black nylon
- Radial, double-fan tip
- Galvanized wire handle

03-621A

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
For Low-form Nessler Tubes				
11" (27cm)	4 × 1.75" (10 × 4.4cm)	**03-621A**	13.46	12/130.63
20" (51cm)	6 × 2.38" (15.2 × 6cm)	**03-621B**	25.43	12/246.14

Pipet

Fisherbrand® Transfer Pipet Brush

Cone-shaped brush with stiff nylon bristles for cleaning transfer pipets

- Nylon bristles, 17" (43cm)

03625

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
17" (43cm)	7.5 × 0.93" (19 × 2.4cm)	**03625**	10.80	12/104.81

General Purpose

Fisherbrand® Brass Wire Brush

For cleaning corroded or dirty metal surfaces

03-685

- Wooden handle
- Handle length: 5" (13cm)

Overall Length	Bristle L × W	Cat. No.	Each	Pack of
10" (25cm)	5 × 0.62" (12.7 × 1.6cm)	**03-685**	128.50	12/1313.00

Fisherbrand® Flat Camel's Hair Brushes

For dusting sensitive instruments

03-665A

- Hair mounted with metal ferrule
- Wooden handle

Overall Length	Hair L × W	Cat. No.	Each	Pack of
6.5" (17cm)	0.75 × 0.5" (1.9 × 1.3cm)	**03-665A**	19.75	12/196.50

Fisherbrand® Long-Handled Camel's Hair Brush

For dusting balances

03-661

Slightly pointed tip and full body tapering toward handle.

Overall Length	Bristle L × Dia.	Cat. No.	Each	Pack of
9" (23cm)	1.5 × 0.75" (3.8 × 1.9cm)	**03-661**	27.70	12/300.50

Fisherbrand® StaticAway™ Antistatic Brush

Dissipates static and whisks away dust, lint and dirt from balance pans, optics, cuvets, slides, film, microscopes, electronics and computer monitors

03-405-1

- Blend of natural hair, synthetic conductive fiber, and a conductive composite handle
- Prevents inaccurate balance readings by eliminating pan weight variances caused by static
- Will not scratch critical surfaces
- Washable

Overall Length	Bristle L × W × Thickness	Cat. No.	Each
2.5" (6.4cm)	1.25 × 2.5 × 0.25" (3.1 × 6.4 × 0.6cm)	**03-405-1**	32.70

Fisherbrand® Table-Dusting Brushes

For dusting tables and lab benches

- Soft-bristle brush
- Handle, 5"L (13cm)

03-680

Overall Length	Bristle, L × W	Cat. No.	Each	Pack of
12.62" (32cm)	7.5 × 2" (19 × 5cm)	**03-680**	70.20	6/363.50

Burets

Manual

Thermo Scientific™ Nalgene™ Burets

Durable, transparent body

- Buret is durable and unaffected by diluted acids and bases (except hydrofluoric acid and ammonium hydroxide) used as titrants
- pH range of 1-14 is ideal; compatible with up to 5% wt/wt acids and up to 30% bases accomodating a wide range of tirants
- Transparent/graduated
- Class B, Meet ASTM™ E287

NOTES:
Not for use with alcohols and organic solvents. Exposure to these solutions will cause immediate damage.

03-705 Series

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each	Case of
0.84 oz. (25mL)	0.0034 oz. (0.10mL)	±0.06mL	3650-0025	**03-705B**	160.90	4/418.00
1.69 oz. (50mL)	0.0034 oz. (0.10mL)	±0.10mL	3650-0050	**03-705C**	182.20	4/473.00
3.38 oz. (100mL)	0.0068 oz. (0.20mL)	±0.20mL	3650-0100	**03-705D**	204.50	4/530.50

Kimax™ Burets with 3-Way PTFE Stopcock

Class A

- Precision bore tubing
- Durable white scale
- Permanently marked with individual serial number
- Filling tube accepts 1/4" I.D. flexible tubing

INCLUDES:
No. 2 PTFE stopcock and KimKap™ dust cap.

COMPLIANCE:
Meet ASTM™ E 287

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST™.

03-724-10 Series

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.845 oz. (25mL)	0.10mL	±0.03mL	17052F 25	**03-724-10A**	220.50
1.69 oz. (50mL)	0.10mL	±0.05mL	17052F 50	**03-724-10B**	229.50
3.38 oz. (100mL)	0.20mL	±0.10mL	17052F 100	**03-724-10C**	295.00

Kimax™ Precision Bore Burets with PTFE Stopcock

Class A

- Precision bore tubing
- Durable white scale
- Permanently marked with individual serial number

INCLUDES:
No. 2 PTFE stopcock and KimKap™ dust cap.

COMPLIANCE:

- Meet ASTM™ E 287
- 4 1/2" (115mm) delivery stem on 10mL size meets ASTM D 664

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST™.

03-700-22 Series

Capacity	Approx. L	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	26.14" (664mm)	0.0017 oz. (0.05mL)	±0.02mL	17027F 10	**03-700-22A**	240.50
0.845 oz. (25mL)	24.17" (614mm)	0.0034 oz. (0.10mL)	±0.03mL	17027F 25	**03-700-22B**	257.00
1.69 oz. (50mL)	29.33" (745mm)	0.0034 oz. (0.10mL)	±0.05mL	17027F 50	**03-700-22C**	265.50
3.38 oz. (100mL)	31.1" (791mm)	0.0068 oz. (0.20mL)	±0.10mL	17027F 100	**03-700-22D**	294.50

Kimax™ Buret with Funnel Top and PTFE Stopcock

Class A

- Easy to fill with precision bore tubing
- Durable white scale
- Permanently marked with individual serial number
- Inset shows top configuration

INCLUDES:
Diagonal No. 2 PTFE stopcock.

COMPLIANCE:
Meets ASTM™ E 287

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST™.

03-765

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
1.69 oz. (50mL)	0.1mL	±0.05mL	17094F 50	**03-765**	226.00

Kimax™ Reservoir Fill Burets

Class A

- Durable black scale
- Permanently marked with individual serial number
- Filling tube and overflow tube accept 0.25" O.D. flexible tubing
- Self-zeroing
- Inset shows top configuration

INCLUDES:
No. 2 PTFE stopcock.

COMPLIANCE:
Meet ASTM™ E 287

03-724-11 Series

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	0.0017 oz. (0.05mL)	±0.02mL	17054F 10	**03-724-11**	276.00
0.845 oz. (25mL)	0.0034 oz. (0.10mL)	±0.03mL	17054F 25	**03-724-11A**	275.50
1.69 oz. (50mL)	0.0034 oz. (0.10mL)	±0.05mL	17054F 50	**03-724-11B**	284.50
3.38 oz. (100mL)	0.0068 oz. (0.20mL)	±0.10mL	17054F 100	**03-724-11C**	331.00

Kimax™ Burets with PTFE-Plug Stopcock

Class B

- Permanently colored black scale

INCLUDES:
No. 2 PTFE-plug stopcock and KimKap™ dust cap.

COMPLIANCE:
Meet ASTM™ E 287

NOTES:
If glass body breaks, stopcock plug can be used in replacement glass body (03-700-21C, sold separately).

03-700-20C

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	0.05mL	±0.04mL	17026F 10	**03-700-20A**	146.20
0.845 oz. (25mL)	0.10mL	±0.06mL	17026F 25	**03-700-20B**	146.20
1.69 oz. (50mL)	0.10mL	±0.10mL	17026F 50	**03-700-20C**	159.90
3.38 oz. (100mL)	0.20mL	±0.20mL	17026F 100	**03-700-20D**	184.70

Kimax™ Microburets with PTFE-Plug Stopcock

Class A

- Type I, Style I, Fed. Spec. NNN-B-789
- Precision bore tubing
- Durable white scale
- Permanently marked with individual serial number
- No. 3 rubber stopper, carrying short length of glass tubing, can be inserted into funnel top when desirable to fill buret from below by suction
- Inset shows top configuration

INCLUDES:
No. 2 PTFE-plug stopcock

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST™.

20-105 Series

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.169 oz. (5mL)	0.0003 oz. (0.01mL)	±0.01mL	17110F 5	**20-105A**	372.50
0.338 oz. (10mL)	0.0007 oz. (0.02mL)	±0.02mL	17110F 10	**20-105B**	372.50

Corning™ PYREX™ Dispensing Burets, Colored Scale, with Straight Bore Standard PTFE Stopcock

Class B

- Ideal for use in educational and institutional labs
- Tips carefully drawn to ensure accuracy and proper drainage rate
- Durable, colored enamel markings

INCLUDES:
No. 2 PTFE stopcock plug and dust cap.

03-701-26 Series

Capacity	Subdivision[s]	Tolerance	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	0.05mL	±0.04mL	2122A 10	**03-701-26A**	147.50
0.845 oz. (25mL)	0.1mL	±0.06mL	2122A 25	**03-701-26B**	152.40
1.69 oz. (50mL)	0.1mL	±0.10mL	2122A 50	**03-701-26C**	150.77
3.38 oz. (100mL)	0.2mL	±0.20mL	2122A 100	**03-701-26D**	186.30

Kimax™ Microburets with Integral Reservoir

Class A

- Type I, Style I, Fed. Spec. NNN-B-789
- Precision bore tubing
- Durable white scales
- Reservoir capacity: approximately 70mL
- Inset shows top configuration

INCLUDES:
Ŧ14/20 stopper in reservoir and two No. 2 PTFE-plug stopcocks.

COMPLIANCE:
Meet ASTM™ E 694

20-112 Series

Capacity	Length	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.067 oz. (2mL)	23.22" (590mm)	0.0003 oz. (0.01mL)	±0.01mL	17132F 2	**20-112A**	395.50
0.16 oz. (5mL)	32.08" (815mm)	0.0003 oz. (0.01mL)	±0.01mL	17132F 5	**20-112B**	421.00
0.338 oz. (10mL)	24.4" (620mm)	0.0017 oz. (0.05mL)	±0.02mL	17132F 10	**20-112C**	401.00

Corning™ PYREX™ 10mL Class A Buret with Product Standard PTFE Stopcock Plug

Buret has colored markings, fine, sharp lines and large easy-to-read numbers

- Capacity tolerance is established by ASTM E-287 and calibrated in accordance with ASTM E-542
- Tips are carefully drawn from accurate bore tubing to insure proper drainage rates
- Stopcock barrel has a smooth micro-finish to assure leak-resistant performance
- Supplied with a dust cover
- All sizes are furnished with a 2mm bore stopcock plug

COMPLIANCE: Meet ASTM™ E 694, E 542, and E 287

03-701-25 Series

Capacity	Subdivision[s]	Tolerance	Approx. O.D. × Height (mm)	Mfr. No.	Cat. No.	Each
0.3381 oz. (10mL)	0.05mL	±0.02mL	9 × 560 (.3 × 22)	2103-10	**03-701-25A**	174.70
0.845 oz. (25mL)	0.10mL	±0.03mL	12 × 560 (.4 × 22)	2103 25	**03-701-25B**	186.70
1.69 oz. (50mL)	0.10mL	±0.05mL	14 × 750 (.55 × 29.5)	2103 50	**03-701-25C**	198.61
3.38 oz. (100mL)	0.20mL	±0.10mL	18 × 752 (.7 × 29.6)	2103 100	**03-701-25D**	253.50

Automatic

Fisherbrand® Automatic Burets with Stopcock

Ideal for storing standard solutions

- Inset shows top configuration
- Capacity: 10 and 25mL

INCLUDES:
Clear or amber glass reservoir bottle, rubber stopper, one glass buret with central filling tube, rubber bulb, glass and rubber tubing connections, and $ glass stopcock

03-842 Series

Capacity	Subdivision	Reservoir Capacity	Cat. No.	Each
With clear glass reservoir				
10mL	0.10mL	500mL	**03-842-1A**	228.78
With amber glass reservoir				
25mL	0.10mL	500mL	**03-842-2B**	270.51

Fisherbrand® Automatic Burets with Pinch Valve

With storage bottle

- Insert bead into rubber tubing
- Pinch to stop the flow of liquids

INCLUDES:
Glass buret with central filling tube, clear or amber glass reservoir bottle and delivery tip, rubber stopper, rubber bulb, glass air tube and glass bead

03-843 Series

Capacity	Subdivision	Reservoir Capacity	Cat. No.	Each
With clear glass reservoir				
25mL	0.10mL	500mL	**03-843-1B**	237.60
With amber glass reservoir				
25mL	0.10mL	500mL	**03-843-2B**	218.00

Thermo Scientific™ Nalgene™ Break-Resistant Self-Zeroing Automatic Burets; Acrylic Body, PMP Stopcock and Tip, Teflon™ TFE Plug, PVC tubing, LDPE Bottle

Repeatable, accurate results using a durable, crystal-clear acrylic buret

- Individually calibrated to meet accuracy of ASTM™ E287 for repeatable, accurate results
- Can be used with dilute mineral acids and bases except hydrofluoric acid and ammonium hydroxide
- pH range of 1-14 is ideal; compatible with up to 5% wt/wt acids and up to 30% bases accomodating a wide range of tirants
- Comes complete with everything you need to get started: acrylic buret, LDPE squeeze bottle assembly, 3 ft. (91cm) PVC tubing and buret cover
- Transparent/graduated

COMPLIANCE: ASTM E 287

03-834A

Capacity	Subdivisions	Tolerance	Capacity [Reservoir]	Mfr. No.	Cat. No.	Each	Case of
0.33 oz. (10mL)	0.0034 oz. (0.1mL)	±0.04mL	16.9 oz. (500mL)	3640-0010	**03-834A**	173.20	4/450.50
0.84 oz. (25mL)	0.0034 oz. (0.1mL)	±0.06mL	16.9 oz. (500mL)	3640-0025	**03-834B**	186.50	4/485.00
1.69 oz. (50mL)	0.0034 oz. (0.1mL)	±0.10mL	33.81 oz. (1000mL)	3640-0050	**03-834C**	208.50	4/541.50

Kimax™ Automatic Burets with Bottles

Class A

$ joints fit into reagent bottles with $ necks.

- Constructed with overflow tubes that return directly to reservoir
- For air intake, overflow cups have hose connection for attaching drying tube; second drying tube provided for use between rubber bulb and reservoir
- Precision bore tubing permanently marked with individual serial number
- Durable black ceramic enamel scale

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST™.

03-848-2 Series

Capacity	Subdivision	Grad. Intervals	Capacity [Reservoir]	$ Joint No.	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	0.0017 oz. (0.05mL)	0.5-10	33.81 oz. (1000mL)	29	17124F 10	**03-848-2A**	799.00
0.845 oz. (25mL)	0.0034 oz. (0.10mL)	1.0-25	33.81 oz. (1000mL)	29	17124F 25	**03-848-2B**	799.00
1.69 oz. (50mL)	0.0034 oz. (0.10mL)	1.5-50	67.62 oz. (2000mL)	34	17124F 50	**03-848-2C**	830.50
3.38 oz. (100mL)	0.0068 oz. (0.20mL)	3.0-100	67.62 oz. (2000mL)	34	17124F 100	**03-848-2D**	1055.00

Kimax™ Automatic Burets

Class B

- For industrial and educational applications
- Calibrated "To Deliver" from tip of overflow tube
- Refills through inlet tube on stopcock and automatically adjusts for zero

Capacity	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.845 oz. (10mL)	0.0017 oz. (0.05mL)	±0.04mL	17051F 10	**03-789-5E**	234.00
1.69 oz. (25mL)	0.0034 oz. (0.10mL)	±0.06mL	17051F 25	**03-727A**	232.00
3.38 oz. (50mL)	0.0034 oz. (0.10mL)	±0.10mL	17051F 50	**03-727B**	284.50
0.338 oz. (100mL)	0.0068 oz. (0.20mL)	±0.20mL	17051F 100	**03-727C**	245.50

- Inlet and overflow tubes accept 0.25" I.D. flexible tubing
- Durable black ceramic enamel scale
- Graduations at top are omitted since diameter in this portion varies due to sealing of overflow cup

INCLUDES:
No. 2 PTFE-plug three-way stopcock.

COMPLIANCE:
Designed from ASTM™ E 287

03-727 Series

Dispensing

Fisherbrand® Acid-Dispensing Burets

Class A

- Precision-grade buret has $ joint that fits into neck of reservoir bottle

INCLUDES:
PTFE stopcock, reservoir and aspirator bulb.

Capacity	Subdivision	Tolerance	Reservoir Capacity	$ Joint No.	Cat. No.	Each
0.002 gal. (10mL)	0.05mL	±0.02mL	1000mL	24/40	**03-846AT**	583.50
0.005 gal. (25mL)	0.10mL	±0.03mL	1000mL	24/40	**03-846BBT**	646.03
0.01 gal. (50mL)	0.10mL	±0.05mL	1000mL	29/42	**03-846BT**	717.79

03-846 Series

Budget Priced

Fisherbrand® Manual Student Burets

With blue markings

- Well suited for both educational and routine laboratory work

INCLUDES:
Straight ₮ glass stopcock.

03-700 Series

Capacity	Subdivision	Tolerance	Cat. No.	Each	Case of 12
0.338 oz. (10mL)	0.05mL	±0.05mL	**03-700A**	117.98	1287.00
0.84 oz. (25mL)	0.10mL	±0.06mL	**03-700B**	111.16	1180.47
1.6 oz. (50mL)	0.10mL	±0.10mL	**03-700C**	172.06	1877.00
3.38 oz. (100mL)	0.20mL	±0.20mL	**03-700D**	169.95	1854.00

Kimax™ Burets with Replaceable PTFE Stopcock

Replaceable glass barrels and tips

- Borosilicate glass construction
- Permanent brown scale on the 25mL size and black on the 50mL

INCLUDES:
KimKap™ dust cap and 2mm PTFE-plug stopcock.

03-700-12 Series

Capacity	Subdivisions	Mfr. No.	Cat. No.	Each	Case of 6
0.845 oz. (25mL)	0.1mL	17021H 25	**03-700-12A**	129.80	576.50
1.69 oz. (50mL)	0.1mL	17021H 50	**03-700-12B**	134.70	598.00

Corning™ PYREX™ Economy Grade Burets with Replaceable PTFE Stopcock

Replaceable components for cost savings

- Easy-to-read, wear-resistant white enamel graduations in 0.10mL increments
- Barrel tooled at top and bottom
- Ground tip for accurate fluid control and leak resistance

INCLUDES:
Locking PTFE fluorocarbon resin stopcock.

03-700-15 Series

Capacity	Mfr. No.	Cat. No.	Case of 2
25mL	2116 25	**03-700-15A**	254.50
50mL	2116 50	**03-700-15B**	269.50

Schellbach

Kimax™ Schellbach Burets

With straight PTFE-plug No. 2 stopcocks and KimKap™ dust cap

- Durable black ceramic enamel scale
- Blue line on a broader white band running vertically behind the scale
- Meniscus is read at narrowest point of blue line above the true meniscus, ensuring greater accuracy

03-740-5 Series

Capacity	Approx. Length	Subdivision	Tolerance	Mfr. No.	Cat. No.	Each
0.845 oz. (25mL)	22.4" (571mm)	0.0034 oz. (0.10mL)	±0.06mL	17150F 25	**03-740-5A**	129.70
1.69 oz. (50mL)	29.05" (738mm)	0.0034 oz. (0.10mL)	±0.10mL	17150F 50	**03-740-5B**	131.50

Kimax™ Schellbach Burets with Three-Way Stopcock

With No. 2 three-way stopcock with automatic PTFE plug

- Durable black ceramic enamel scale
- Schellbach stripping applied to back opposite scaletop
- Overflow tube at top and filling tube at stopcock accept 0.25" I.D. flexible tubing
- Calibrated to self-zero tip at top
- Inset shows top configuration

03-750-10 Series

Capacity	Approx. Length	Subdivisions	Tolerance	Mfr. No.	Cat. No.	Each
0.845 oz. (25mL)	23.3" (594mm)	0.0034 oz. (0.10mL)	±0.06mL	17170F 25	**03-750-10A**	280.00
1.69 oz. (50mL)	29.6" (754mm)	0.0034 oz. (0.10mL)	±0.10mL	17170F 50	**03-750-10B**	298.50

ON THE WEB...

Looking for more Burets?

Visit www.fishersci.com and search for Burets

Burners

Alcohol

Wheaton™ Alcohol Burner

Ideal for microscopy applications

Designed for use with isopropyl or denatured ethyl alcohol.

- Manufactured from soda-lime glass
- Low-heat flame

ORDERING INFORMATION:
Dia. × H: 3 × 3.947" (75 × 100mm).

INCLUDES:
Ground-glass stopper.

Description	For Use with	Mfr. No.	Cat. No.	Case of
Alcohol burner	Isopropyl or denatured ethyl alcohol	237070	**04-245-1**	6/225.24

04-245-1

Gas

Fisher Scientific™ accuFlame™ Natural Gas Burner

Stainless-steel grid top for better flame adjustment

Provides better Meker Cone definition for easier fine tuning.

- Distributes flame through 100 separate openings for uniform heating; flame arrester prevents flashback
- Provides twice the heat output (2930w/10,000 BTU/hr.) of straight-tube burners
- Features Venturi tube for thorough mixing of gas and air, and adjustable gas orifices and air shutter for complete combustion
- Burns natural gas at 10 cu. ft./hr.
- Rustproof chrome-plated brass body with no-tip, zinc-aluminum alloy base

REQUIRES:
0.25" I.D. gas supply tubing recommended (not included)

03-902Q

Description	Mfr. No.	Cat. No.	Each
Natural Gas Burner	00222Q	**03-902Q**	127.00

Fisher Scientific™ Economy Burners

Nonferrous, rustproof construction

- Two large adjustable air inlets produce clear, blue, efficient flame
- Tapered, serrated gas inlet provides secure tubing connection
- Flame retainer (supplied) prevents flame lifting or extinguishing
- Tip-resistant base
- Separate models for natural and LP gases

COMPLIANCE:
Meet NIST™ Standards and Fed. Spec. NNN-B-795, including 1465w (5000 BTU/hr.) requirement.

03-917Q

Gas Type	Mfr.No.	Cat. No.	Each
Natural gas	00150Q	**03-917Q**	52.10

Calculators

Fisher Scientific™ Solar Desktop Calculator

Solar-powered unit can be read in any light

12-099-24

- Performs chain calculations
- Oversized keys with 8- or 12-digit, 0.75" (1.9cm) LCD display, angled to eliminate reflected glare
- 12-digit unit permits calculating numbers as large as 999,999,999,999 and as small as 0.000000000001 without using scientific power notations or symbols
- Tough ABS plastic case is ideal for rough lab use
- Feet protect the unit from spills

ORDERING INFORMATION: Dimensions: 6.5L × 4.5W × 0.18"H (16.5 × 11.4 × 0.9cm). Weight: 4 oz. (113kg).

INCLUDES: Built-in solar panels and instructions

L × W × H	Weight	Cat. No.	Each
6.5L x 4.5W x 0.18"H (16.5L x 11.4W x 0.9cm H)	4 oz. (0.113kg)	**12-099-24**	20.30

Fisher Scientific™ Solar-Powered, Big-Digit Calculator

Performs all arithmetic calculations

Features memory, percent and floating decimal point

12-099-20

- Oversized keys and 0.5"H (1.3cm) digits permit easy reading and operation
- Requires no batteries or other independent power source

ORDERING INFORMATION: Dimensions: 4.25L × 2.37W × 0.25"H (10.8 × 6.0 × 0.6cm). Weight: 2 oz. (57g).

INCLUDES: Pocket carrying case.

L × W × H	Weight	Cat. No.	Each
4.25 × 2.37 × 0.25"H (10.8 × 6.0 × 0.6cm)	2 oz. (57g)	**12-099-20**	19.36

Fisher Scientific™ Pocket-Sized Scientific Calculator

Ideal for virtually all routine calculations performed in scientific labs, including square roots, percentages and raising to powers

12-099-21

- Performs more than 50 functions including science, math, common/hyperbolic trigonometric, logs/natural logs, powers, roots, reciprocals, factorials, percentages, hexadecimals, random number generation and degree/decimal conversion
- Statistical features include standard deviation, mean, sum of squares, sum of data and much more
- Easy-to-use, raised keys and large, easy-to-read, 0.25"H (0.6cm), 10-digit, two-digit exponent LCD
- Three-key memory and "Forever Memory" store data when the unit is off
- Automatic power-down function conserves battery life

ORDERING INFORMATION:
Dimensions: 5L × 3W × 0.5"H (12.7 × 7.6 × 1.3cm).
Net weight: 1.5 oz. (43g).

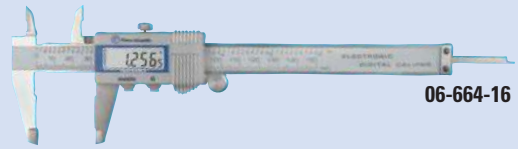
INCLUDES:
Backup battery and instructions

Description	Cat. No.	Each
Pocket-sized Scientific Calculator	**12-099-21**	32.75

Calipers

Fisherbrand® Traceable™ Digital Calipers

Switch from inches to millimeters, set jaws closed, or read differential measurements with the touch of a button



06-664-16

- 0.33" (0.84cm) high digital display
- Durable hardened steel
- Resolution: 0.0005" or 0.01mm
- Accuracy: ±0.001" or ±0.03mm

9" (22.9cm) Model

- Range: 0 to 6" (0 to 150mm)
- Dimensions: 9 × 3" (22.9 × 7.6cm)
- Weight: 5 oz. (141.7g)

11" (27.9cm) Model

- Range: 0 to 8" (0 to 200mm)
- Dimensions: 11 × 3" (27.9 × 7.6cm)
- Weight: 6 oz. (170g)

INCLUDES:
Runs on supplied 1.5V Button Cell 357 battery for 10,000 hrs. (replace with Cat. No. 02-440-1C).

CERTIFICATIONS:
Supplied with serial-numbered certificate from an ISO 17025 calibration laboratory indicating traceability to NIST™ standards.

Read [Range]	Cat. No.	Each
0 to 8" (0 to 200mm)	**06-664-16**	157.40
0 to 6" (0 to 150mm)	**14-648-17**	115.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Calorimeters

Parr™ 1901 Oxygen Bomb System

All required components for most Parr 1108 Oxygen Bomb techniques

04-352

Features of the 1108 Oxygen Bomb

- 342mL capacity
- 8000 calories maximum liberated
- Oxygen-charging pressures up to 40 atm
- Columbium-stabilized stainless steel

ORDERING INFORMATION:
Accessory bombs, bucket, parts and related hardware and calorimeter standards are available. For more information, contact your Fisher Scientific™ Customer Service Representative.

INCLUDES:

- 1108 Oxygen combustion bomb
- Oxygen filling connection
- Ignition unit
- Ignition cords
- Bomb head support tripod
- Stainless combustion capsules
- Card of 10cm Ni-Cr fuse wire
- Head support and stand

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Oxygen Bomb Apparatus	115V 50/60Hz	1901EB	**04-352**	3837.32

Parr™ 6420 Expanded System Featuring the 6400 Automatic Isoperibol Calorimeter

Compact complete system

04-731-218

Inclusive and compact, this instrument incorporates a closed loop cooling subsystem into the calorimeter. This subsystem uses a thermoelectric cooler assembly attached directly to a one liter water tank which supplies cooling water to the calorimeter. The 6400 requires one minute of operator time per test, allowing a technician to operate up to four calorimeters simultaneously.

Isoperibol calorimetry

- Automated bucket and jacket fill as well as vessel fill and rinse
- Automatic cooling 6 to 7 tests per hour
- Operator time per test is 1 minute
- 0.1% precision class instrument
- FlashROM memory and TCP/IP network communications
- USB port for balance and printer connections
- Updates via the Internet

1138 Oxygen Bomb

- Withstands high magnitude testing
- Head designed with O-ring groove optimized for reduction in frictional wear
- Removable bomb head for fast sample loading using proprietary Twist-Lock vessel closure design

ORDERING INFORMATION:
Accessory bombs, bucket, parts and related hardware and calorimeter standards are available. For more information, contact your Fisher Scientific Customer Service Representative.

INCLUDES:

- 6400 Calorimeter
- 1576 Rinse Tank
- 1758 Printer
- Extra 1138 Bomb Head Assembly
- 6038 Bomb Maintenance Kit
- 6409B 1-Year Service Kit

Description	Volts	Mfr. No.	Cat. No.	Each
Expanded System with 1138 Oxygen Bomb of Alloy G30, for Chlorine Service	115	6420CLEA	**04-731-218**	31,830.85

Carboys

Glass

Kimax™ Aspirator Bottles with Tubulation

Bottom glass hose-connection outlet is fused to bottle

- With tooled top
- Narrow mouth for rubber stopper
- With white enamel marking spot

02-973-1E

ORDERING INFORMATION:
8.5 oz. (250mL) and 17 oz. (500mL) sizes accept 0.312" I.D. (8mm) tubing. 34 oz. (1L) and larger accept 0.375" I.D. (9.5mm) flexible tubing.

REQUIRES:
Tubing

COMPLIANCE:
Meet ASTM™ E 438 Type I, Class A requirements.

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
1.25 gal. (5L)	10	14607-5000	**02-973-1E**	1/202.50
2.5 gal. (10L)	11½	14607-10000	**02-973-1F**	1/372.50

Pyrex™ Brand Aspirator Bottles with Tubulation

Serrated outlet for flexible tubing

- Neck takes cork or rubber stopper

REQUIRES:
Tubing

02-972-2

Capacity	Stopper No.	Approx. O.D. of Outlet	Mfr. No.	Cat. No.	Each	Case of
8.5 oz. (250mL)	2	10mm	1220-250	**02-972B**	----	18/936.97
17 oz. (500mL)	4	10mm	1220-500	**02-972C**	----	12/1119.00
34 oz. (1L)	6	10mm	1220-1L	**02-972D**	130.10	6/541.50
0.5 gal. (2L)	6	15mm	1220-2L	**02-972E**	164.40	6/709.00
1 gal. (4L)	10	15mm	1220-4L	**02-972F**	271.00	----
2.5 gal. (9.5L)	12	15mm	1220-2X	**02-972-1**	404.00	----
3.5 gal. (13.2L)	12	15mm	1220-3X	**02-972-2**	501.00	----
5 gal. (19L)	12	15mm	1220-5	**02-972G**	703.50	----

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Polycarbonate

Thermo Scientific™ Nalgene™ Clearboy™ Round Carboys, Polycarbonate

Durable, lighter and safer than glass

- With polypropylene spigot and screw closure; TPE gasket
- Molded-in graduations in 1 gal and 5L increments for ease in dispensing
- Polycarbonate is glass-clear for easy visual inspection and volume measurements
- Clearboys are suitable for mixing, storing and freezing aqueous-based reagents and biologicals
- Designed with 83mm neck to accept Top Works™ and other Nalgene accessories for versatility
- Autoclavable/transparent/graduated/leakproof†

02-962-6A, -6B

INCLUDES: Polypropylene closure and TPE gasket

NOTES: Tubing adaptor is not autoclavable.

Capacity	Closure Size	Mfr. No.	Cat. No.	Each	Case of 4
With spigot					
2.5 gal. (10L)	83B	2317-0020	**02-962-7G**	320.00	832.00
5.0 gal. (20L)	83B	2317-0050	**02-962-7H**	414.00	1077.00
Without spigot					
2.5 gal. (10L)	83B	2251-0020	**02-962-6A**	227.50	592.00
5.0 gal. (20L)	83B	2251-0050	**02-962-6B**	325.50	846.00

Thermo Scientific™ Nalgene™ Rectangular Clearboy™, Polycarbonate

Space-saving design for storing and dispensing

- With polypropylene spigot and screw closure; TPE gasket
- Wide-mouth opening permits easy filling, transferring and cleaning of carboys
- Molded-in graduations in 1 gallon and 5L increments for ease in dispensing

02-963-10 Series

- Stainless-steel handle for ease in transporting containers
- Clear wall makes this carboy ideal when visual inspection of contents is necessary
- Autoclavable/transparent/graduated/leakproof†
- Carboys with spigots are graduated "To Deliver"
- Carboys without spigots are graduated "To Contain"

INCLUDES: Polypropylene screw closure

Capacity	Cap Size	Mfr. No.	Cat. No.	Each	Case
With spigots					
2.5 gal.	100mm	2322-0020	**02-963-10A**	345.00	6/1347.00
5.0 gal.	100mm	2322-0050	**02-963-10C**	434.50	4/1130.50
Without spigots					
2.5 gal.	100mm	DS2213-0020	**02-961-55A**	219.68	----
5.0 gal.	100mm	DS2213-0050	**02-961-55C**	304.00	----

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Polyethylene

Fisherbrand® HDPE Rectangular Carboys

Value your lab can rely on

- Ideal for storing and dispensing lab water and reagents
- Durable construction for long service life
- HDPE is not autoclavable
- Space-saving rectangular design
- Wide mouth closure allows for easy filling and cleaning access
- Carboys with spigots include a hose barb insert to accommodate 1/4 to 5/16" ID tubing.
- Spigot spout without the adapter fits 5/8" ID tubing
- Materials meet FDA requirements for food use and USP VI criteria (non-toxic)

030-076 Series

Capacity	Cat. No.	Price
Without spigot		
2.38 gal. (9L)	**030-076-41**	98.45
5.28 gal. (20L)	**030-076-42**	111.50
With spigot		
2.38 gal. (9L)	**030-076-43**	127.23
5.28 gal. (20L)	**030-076-44**	157.54

Thermo Scientific™ Nalgene™ Rectangular Carboy; HDPE

Tough, rigid, translucent

- Convenient wide mouth for filling, transferring and cleaning
- Graduated "To Deliver" in gallons and liters
- Built-in shoulder loops have sturdy stainless-steel handles attached
- Space-saving rectangular design in high-density polyethylene
- Leak-proof, linerless polypropylene closure

02-963-6 Series

INCLUDES:
Polypropylene screw cap, steel handles

Capacity	Closure Size	Mfr. No.	Cat. No.	Each	Case of
With spigots					
2.25 gal. (9L)	100mm	2320-0020	**02-963-6A**	206.00	6/803.00
5.25 gal. (20L)	100mm	2320-0050	**02-963-6B**	257.50	4/670.00
Without spigots					
2.0 gal.	100mm	2211-0020	**02-961-10A**	120.40	6/469.00
5.0 gal.	100mm	2211-0050	**02-961-10B**	176.30	4/458.00

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Thermo Scientific™ Nalgene™ Round Carboys with Spigots; LDPE

Ideal for collecting and dispensing distilled water, reagents and acids

- Molded-in graduations in 1 gal. and 5L increments for ease in dispensing
- Polypropylene spigot and screw closure
- Integral shoulder handles make lifting comfortable for four largest sizes
- Molded-in spigot boss provides strength and leak resistance
- Leakproof
- With spigot: Graduated "To Deliver"
- Without spigot: Graduated "To Contain"

02-963 Series

ORDERING INFORMATION:
Supplied with shoulder loop on 1 gal. (3.8L) size, shoulder handles on all other sizes. 1 gal. size is not graduated.

INCLUDES:
White polypropylene screw cap and 83B closure

Capacity	Mfr. No.	Cat. No.	Each	Case of
With spigots				
1 gal. (4L)	2318-0010	**02-963AA**	148.50	6/579.50
2.5 gal. (10L)	2318-0020	**02-963A**	211.50	6/824.50
5.25 gal. (20L)	2318-0050	**02-963BB**	253.50	4/658.50
6.5 gal. (25L)	2318-0065	**02-963B**	191.50	----
13 gal. (50L)	2318-0130	**02-963C**	290.50	----
Without spigots				
2.5 gal. (10L)	2210-0020	**02-961D**	121.40	6/449.50
4 gal. (15L)	2210-0040	**02-961E**	144.50	4/374.50
5.25 gal. (20L)	2210-0050	**02-961A**	160.00	4/414.00
6.5 gal. (25L)	2210-0065	**02-961B**	201.50	4/521.00
13 gal. (50L)	2210-0130	**02-961C**	234.50	----

Thermo Scientific™ Nalgene™ Wide-Mouth Carboys with Handles; LDPE

Ideal for mixing powders

- Convenient wide shoulder handles allow easy carrying and pouring, even with gloved hands
- Graduated to contain in 1 gal. and 5L increments for ease of use
- Wide-mouth opening can accommodate overhead mixers
- Wide-mouth opening is convenient for dry materials such as solids and powders
- Wide-mouth opening for ease of cleaning and dispensing
- Graduated/leakproof/not autoclavable†

02-961-60C

Capacity	Closure Size	Mfr. No.	Cat. No.	Each	Case of
2.5 gal. (10L)	100mm	2234-0020	**02-961-60A**	113.90	6/440.50
4 gal. (15L)	100mm	2234-0030	**02-961-60C**	140.60	6/544.00
5 gal. (20L)	100mm	2234-0050	**02-961-60E**	160.40	4/413.50

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Polypropylene

Fisherbrand® Polypropylene Rectangular Carboys

Value your lab can rely on

- Ideal for storing and dispensing lab water and reagents
- Durable construction for long service life
- Choice of materials for general use or autoclavability
- Space-saving rectangular design
- Wide mouth closure allows for easy filling and cleaning access

030-076-45 to -48

- Carboys with spigots include a hose barb insert to accommodate 1/4 to 5/16" ID tubing
- Spigot spout without the adapter fits 5/8" ID tubing
- Materials meet FDA requirements for food use and USP VI criteria (non toxic)

Capacity	Cat. No.	Price
Without spigot		
2.38 gal. (9L)	**030-076-45**	96.30
5.28 gal. (20L)	**030-076-46**	116.10
With spigot		
2.38 gal. (9L)	**030-076-47**	141.19
5.28 gal. (20L)	**030-076-48**	182.20

Thermo Scientific™ Nalgene™ Autoclavable Carboys with Handles; PP

Polypropylene construction for temperature resistance and rigidity

- Convenient shoulder handles allow easy carrying and pouring, even with gloved hands
- Available in 10, 20 and 50L sizes for a variety of biopharmaceutical applications
- Graduated to contain in 1 gal. and 5L increments for ease of use
- Nalgene Top Works™ Fluid Transfer Systems (Cat. No. 2135) permits convenient liquid aseptic transfer
- Autoclavable/graduated/leakproof†

02-960-20A to -20C

ORDERING INFORMATION:

Additional closure options are Nalgene Quick Filling/Venting Closures (Cat. No. 2158), or Nalgene Filling/Venting Closures (Cat. No. 2162)

Additional accessories include Nalgene Barbed Bulk Head Fittings (Cat. No. 6149)

Capacity	Mfr. No.	Cat. No.	Each	Case of
2.5 gal. (10L)	2250-0020	**02-960-20C**	140.30	6/534.00
5.0 gal. (20L)	2250-0050	**02-960-20A**	195.50	4/506.00
13.0 gal. (50L)	2250-0130	**02-960-20B**	272.00	----

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Nalgene™ Autoclavable Carboys with Spigot; PP

Ideal for use with culture media and distilled water, excellent chemical resistance

02-963-2A to -2C

- Molded in graduations in 1 gal. and 5L increments for ease in dispensing
- Polypropylene spigot and TPE gasket
- Integral shoulder handles make lifting comfortable
- Ideal for storing and dispensing solutions and media and can be autoclaved before refilling to eliminate bacterial growth
- Molded-in spigot boss provides strength and leak resistance
- Autoclavable/graduated/leakproof†

ORDERING INFORMATION:
Neck accepts No. 13.5 rubber stopper. Includes spigot closure. Follow product insert instructions for autoclaving to ensure proper function.

INCLUDES: White Polypropylene screw cap

NOTES: Containers can be used for long-term storage, but direct UV exposure should be avoided. Neck accepts No. 13.5 rubber stopper. Tubing adaptor is not autoclavable

Capacity	Mfr. No.	Cat. No.	Each	Case of
2.5 gal. (10L)	2319-0020	**02-963-2A**	230.00	6/893.50
5.25 gal. (20L)	2319-0050	**02-963-2B**	288.00	4/747.00
13 gal. (50L)	2319-0130	**02-963-2C**	336.00	----

Thermo Scientific™ Nalgene™ Carboys with 3" Sanitary Neck Design; PP

Ideal for use with Nalgene Top Works™ closures to create aseptic fluid-handling systems

02-963-8A to -8C

- Versatile with 3" sanitary tri-clover flange
- Sanitary design offers fewer surfaces for contaminations
- Autoclavable/leakproof†

Capacity	Mfr. No.	Cat. No.	Each
2.5 gal. (10L)	2630-0010	**02-963-8A**	269.00
5.0 gal. (20L)	2630-0020	**02-963-8B**	338.50
12.5 gal. (50L)	2630-0050	**02-963-8C**	450.00

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Thermo Scientific™ Nalgene™ Autoclavable Rectangular Carboys; Polypropylene

Space-saving design for solutions, media and sterile water

02-963-5A and -5C

- With polypropylene spigot and screw closure; TPE gasket
- Wide-mouth opening permits easy filling, transferring and cleaning of carboys
- Molded-in graduations in 1 gallon and 5L increments for ease in dispensing
- Stainless steel handle for ease in transporting containers
- Molded-in spigot boss provides strength and leak resistance
- Autoclavable/graduated/leakproof†

INCLUDES:
Polypropylene screw closure

NOTES:
Follow product insert instructions for autoclaving to ensure proper function. Tubing adaptor is not autoclavable.

Capacity	Closure Size	Mfr. No.	Cat. No.	Each	Case of
With spigots					
2 gal. (9L)	100mm	2321-0020	**02-963-5A**	247.00	6/964.00
5 gal. (20L)	100mm	2321-0050	**02-963-5C**	310.50	4/807.00
Without spigots					
2 gal. (9L)	100mm	2212-0020	**02-961-53A**	165.30	6/644.50
5 gal. (20L)	100mm	2212-0050	**02-961-53C**	236.00	4/613.00

Thermo Scientific™ Nalgene™ Autoclavable Carboys with 1.5" Sanitary Flanges; PP

With welded-in sanitary fitting for use as a dispensing port

02-963-3A to -3C

- Provide secure hookup for use as a supply reservoir to systems such as a fermentor or chromatography column
- Sanitary flange is welded-in for use as a dispensing port or as a supply reservoir to a larger system
- Molded-in handles for ease in transporting containers
- Molded-in graduations in 1 gal. and 5L
- Follow autoclave instructions provided with the product for proper function
- USPVI/autoclavable/graduated/leakproof†

INCLUDES: Size 83B polypropylene closure

COMPLIANCE: All materials are non cytotoxic and pass USP Class VI Biological Testing.

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Each
2.5 gal. (10L)	83B	2640-0020	**02-963-3A**	487.50
5.0 gal. (20L)	83B	2640-0050	**02-963-3B**	494.50
12.5 gal. (50L)	83B	2640-0130	**02-963-3C**	592.00

Fisherbrand™ Rectangular Carboy Spigots and Closures

Value your lab can rely on

030-076-50

Spigots and closures for use with Fisherbrand HDPE and polypropylene rectangular carboys.

- Spigot closure for polypropylene carboys for use when autoclaving with liquid contained inside
- Spigots include a hose barb insert to accommodate 1/4 to 5/16" ID tubing
- Spigot spout without the adapter fits 5/8" ID tubing

Description	Cat. No.	Price
Closures	**030-076-49**	6/49.30
Spigot	**030-076-50**	Each/56.00

Jerricans and Lowboys

Thermo Scientific™ Nalgene™ Jerricans; HDPE

Have wide stance and low center of gravity

02-961-50A to -50C

- Integral spout is long enough for accurate pouring and has an attached closure that won't get lost
- Molded-in graduations in 1 gal. and 5L increments for ease in dispensing
- Molded-in handle and recessed bottom provides a sturdy grip when carrying heavy contents
- Integral shoulder handle and molded bottom grip make lifting and pouring comfortable
- Jerrican has wide stance and low center of gravity to add stability
- Space-saving rectangular shape permits efficient storage
- Graduated/leakproof†

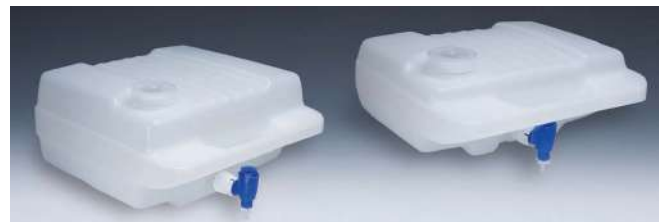
INCLUDES: White Polypropylene screw closure

Capacity	Screw Cap Size	Mfr. No.	Cat. No.	Case of
1.5 gal. (6L)	53B	2240-0015	**02-961-50A**	1/82.30
2.5 gal. (10L)	53B	2240-0025	**02-961-50B**	1/90.50
5.0 gal. (20L)	53B	2240-0050	**02-961-50C**	1/132.80
3.5 gal. (13L)	53B	2243-0013	**02-960-23**	4/312.04
3.5 gal. (13L)	53B; 38-430mm	2243-9013	**02-960-24**	4/368.57

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Thermo Scientific™ Nalgene™ Low-Profile Lowboys; HDPE

Perfect for dispensing most liquids, including reagents, distilled water and titrants



02-963-4, -4A

- Stack up to three high to save space on benchtop or in refrigerator
- Contour handle allows easy one-handed carrying — even when full
- Excellent chemical resistance — can tolerate strong acids and bases for a wide variety of solutions
- Leakproof†

INCLUDES: Spigot and spigot closure and four acid-proof, pressure-sensitive labels

ALERTS: Not recommended for use with aggressive organic solvents.

Capacity	Screw Cap Size	L × W × H	Mfr. No.	Cat. No.	Each	Case of 4
2 gal. (8L)	63mm	12 × 14.25 × 6.5" (305 × 368 × 165mm)	2323-0008	**02-963-4A**	222.50	578.00
4 gal. (15L)	63mm	14.5 × 14.5 × 8" (368 × 368 × 203mm)	2323-0015	**02-963-4**	254.00	660.00

Thermo Scientific™ Nalgene™ Autoclavable Lowboys with Spigot; PPCO

Perfect for dispensing most liquids, including reagents, distilled water and titrants

02-963-4B, -4C

- With polypropylene spigot and screw closure; TPE gasket
- Stack up to three high to save space on benchtop or in refrigerator
- Contour handle allows easy one-handed carrying — even when full
- Excellent chemical resistance — can tolerate strong acids and bases for a wide variety of solutions
- Follow autoclave instructions provided with the product to ensure proper function
- Autoclavable/leakproof†

INCLUDES: Polypropylene screw closures

NOTES: Disengage threads and dismount spigot before autoclaving. Follow autoclave instructions provided with the product for proper function. Tubing adapter is not autoclavable.

Capacity	L × W × H	Mfr. No.	Cat. No.	Each	Case of 4
2 gal. (8L)	12 × 14.4 × 6.4" (305 × 368 × 165mm)	2324-0008	**02-963-4B**	265.00	705.00
4 gal. (15L)	14.4 × 14.4 × 7.9" (368 × 368 × 203mm)	2324-0015	**02-963-4C**	306.00	814.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Nalgene™ Heavy-Duty Wide Mouth Jug; HDPE

Translucent, high-density polyethylene jug graduated in liters and gallons

- Wide-mouth opening permits easy filling, transferring and cleaning of jugs
- Ideal for storing solids or powders
- Molded-in graduations in 1 gal. and 5L increments for ease in dispensing
- Ideal for storing solids or powders — wide stance and low center of gravity adds stability
- Molded-in handle provides a sturdy grip when carrying heavy contents
- Integral shoulder handle and molded bottom grip make lifting comfortable
- Space-saving rectangular shape permits efficient storage
- Graduated

02-960-11

Capacity (To Shoulder)	Mfr. No.	Cat. No.	Each	Case of 4
5.0 gal. (20L)	2241-0050	**02-960-11**	194.20	505.00

Carboy Accessories

ACCESSORIES

Thermo Scientific™ Nalgene™ Quick-Action Spigots; PP with HDPE Tubing Adapter

For Nalgene carboys

- Take 5/8" (1.6cm) I.D. tubing
- Disassemble spigot before autoclaving
- Supplied with adapter for 1/4 or 5/16" (0.6 or 0.8cm) tubing
- Tubing adapter is not autoclavable
- Polypropylene, the standard spigot for Nalgene Carboys
- Supplied with adapter for 0.25 or 0.312" (0.6 or 0.8cm) tubing

02-963-7

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

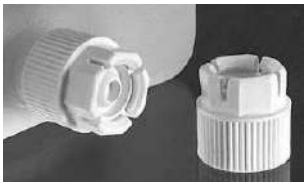
Description	Mfr. No.	Cat. No.	Each	Case of
Polypropylene	6422-0010	**02-963-7**	55.00	12/428.00
ETFE	6432-0010	**02-963-7D**	----	2/184.21

[†] The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes, and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes, and no water escapes. ***Note:*** *these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

Thermo Scientific™ Nalgene™ Spigot Closure

Designed only for Nalgene™ carboys with spigots

- Closure keeps solutions safe by providing a leakproof seal when handling could damage or accidentally turn spigot on
- White polypropylene lock nut with TPE plug
- Designed to fit Nalgene carboys, Clearboys, Lowboys and tanks that have a thread size of 1-1/8", 12 male screw head
- Autoclavable/leakproof[†]



02-963-7E

NOTES:
Nalgene LDPE, HDPE, PP and PMP containers can be used for long-term storage, but direct UV exposure should be avoided.

Description	Mfr. No.	Cat. No.	Pack of 4	Case of 6 Pk.
Spigot Closure for Nalgene Bottles, Jars, Carboys	6423-0010	**02-963-7E**	46.55	184.90

Thermo Scientific™ Nalgene™ Top Works™ Flexible Systems

With silicone stoppers and drop tubes

- Closures are specifically designed to mate with most Nalgene bottles and carboys
- Leakproof systems for secure, aseptic handling of high valued products compared to pouring
- Include long tubing lengths, both inside and outside the container to support the integration to most Nalgene bottles and carboys
- Ready to accept additional fluid transfer components such as aseptic connectors and air vent filters

02-923-15K to -15R

ORDERING INFORMATION:
One system per case.

COMPLIANCE: Meet requirements of USP Class VI current edition.

Closure Size	No. of Ports	Port I.D. Size	Mfr. No.	Cat. No.	Case
53B	None (solid insert)	—	2135-5300	**02-923-15L**	159.66
83B	None (solid insert)	—	2135-8300	**02-923-15P**	222.95
53B	2	2 × 1/4" (6.35mm)	2135-5302	**02-923-15M**	222.00
83B	2	2 × 1/4" (6.35mm)	2135-8302	**02-923-15Q**	310.50
38-430	3	1 × 1/4" (6.35mm), 2 × 1/8" (3.18mm)	2135-3803	**02-923-15K**	201.50
53B	3	1 × 1/8" (3.18mm), 2 × 1/4" (6.35mm)	2135-5303	**02-923-15N**	249.50
83B	3	1 × 3/8" (9.52mm), 2 × 1/4" (6.35mm)	2135-8303	**02-923-15R**	396.00

Thermo Scientific™ Nalgene™ Barbed Bulkhead Fittings; PP

Convert Nalgene closures for fluid transfer operations

- 53B closures will accept (two) 0.25" fittings
- Fittings are barbed at both ends to accept tubing for inside and outside container
- Kits include instructions and templates, polypropylene fittings, acetal nuts, silicone gaskets and TPE port caps
- Autoclavable

INCLUDES:
Instructions, drilling template and two each of polypropylene barbed fitting, acetyl nuts and silicone gaskets

I.D.	Mfr. No.	Cat. No.	Pack of 2	Case of 12 Pk.
0.25" (6.4mm)	6149-0002	**15-315-2**	25.30	196.60
0.5" (13mm)	6149-0001	**15-315-1**	29.90	233.00

15-315-1, -2

Thermo Scientific™ Nalgene™ Filling/Venting Closures; PP

For use on Nalgene carboys and bottles with 53B or 83B closure

- Ready to accept additional fluid transfer components such as aseptic connectors and air vent filters
- Closures are specifically designed to mate with most Nalgene bottles and carboys
- Leakproof systems for secure, aseptic handling of high valued products compared to pouring
- Includes premounted tubing lengths inside the container to support the integration to most Nalgene bottles and carboys

02-923-13Y

INCLUDES:
Nalgene 50 platinum-cured silicone tubing and TPE vent port cap

Closure Size	Tubing I.D.	Mfr. No.	Cat. No.	Each	Case of 6
53mm	0.25" (6.4mm)	2162-0531	**02-923-13Y**	58.90	229.00
83mm	0.25" (6.4mm)	2162-0831	**02-923-13Z**	67.50	262.00
83mm	0.5" (13mm)	2162-0830	**02-923-15**	68.30	265.50

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Fisher Scientific movingon Program

MOVING TO A NEW LAB?

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GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Carts

Fisherbrand® Laboratory Carts

Versatile for holding or transporting a variety of lab supplies, equipment and containers

15-252-400

- Durable 18-gauge welded, 1" (2.5cm) tubular steel frame
- Painted in Fisher blue with corrosion resistant dry powder coating
- Ergonomic, extruded rubber handle grips for comfort when pushing
- Load capacity: 400 lb. (181kg)
- Also features an ID tag
- Full factory assembly, ready to roll
- 4" dia. (10cm) hard rubber casters stabilize movement over rough, uneven floors; two casters with toe locks

15-252-400:

- With two removable Type 304 stainless steel pans; 2" deep (5cm) on three sides with one open side for easy equipment transfer from countertop to cart

15-252-401:

- With two removable vinyl coated wire baskets; dimensions: 18L × 32W × 4"H

15-252-402:

- Top shelf with PVC extrusions on two sides to prevent containers from sliding off
- Bottom shelf with rigid plastic guard rails on both ends

15-252-403:

- Two 2" deep (5cm) epoxy-coated steel, removable watertight pans transport wet or soiled glassware and other labware
- Removable gray rubber mats line pans, prevent loads from shifting

15-252-404:

- Two open phenolic board shelves with high-pressure melamine-laminate surface resist stains and corrosion

15-252-405:

- With four removable vinyl coated wire baskets; dimensions: 18L × 16W × 4"H

WARRANTY: 5-year warranty

Description	Shelves	Cat. No.	Each
Laboratory cart	Two removable polished Type 304 stainless-steel pans that are 2" (51mm) deep on three sides with one open side	**15-252-400**	677.50
Glassware cart	Two removable vinyl-coated wire baskets (18L × 32W × 4"H) and removable plastic drip pan	**15-252-401**	677.50
Glassware cart	Four removable vinyl-coated wire baskets (18L × 16W × 4"H) and removable plastic drip pan	**15-252-402**	672.50
Pan cart	Two 2" (51mm) deep epoxy-coated steel, removable watertight pans, lined with removable gray rubber mats	**15-252-403**	744.00
Portable table	Two open shelves	**15-252-404**	525.00
Chemical cart	Two open shelves with rigid PVC extrusions on two sides; Lower shelf also has rigid plastic guard rails on both ends	**15-252-405**	676.00

Fisherbrand® Flat Shelf Series Polymer Carts

Designed for a wide variety of applications

13-451-187

- Smooth surfaces are designed to resist staining and wipe clean easily
- Corrosion-proof polymer shelves
- Each shelf can hold up to 150 lb.; two shelf units can hold up to 300 lb.; three shelf units can hold up to 400 lb.
- Optional center shelf adjusts on 1" increments
- Built-in tray on top shelf organizes loose items
- Contoured handle and redesigned shelf allow for more legroom when pushing the cart
- Feature 1/2" raised ship's edge design to contain product spills

W × L × H	No. of Shelves	Cat. No.	Each
18" × 29.5" × 33.25"	3	**13-451-187**	274.50
21.5" × 33.75" × 33.25"	2	**13-451-188**	253.00
21.5" × 33.75" × 33.25"	3	**13-451-189**	309.50

Fisherbrand® Polymer Carts

Easy to assemble, no tools required

Rugged mobile carts for a wide variety of uses. High-density polypropylene shelves offer superior corrosion and chemical resistance. Shelves are mounted on a chrome-plated frame.

13-451-185

- Capacity: 150 lb. per shelf (68kg); 400 lb. maximum cart load (181kg)
- Corrosion-proof polymer shelves
- Raised shelf edges contain spills
- Ergonomic handle
- Smooth surfaces resist staining and wipe clean easily
- Carts roll easily on four 4" swivel casters
- Easy, no-tool assembly (ships flat)
- Shelves feature a deep 2.75" ledge for better spill containment
- Three-shelf models feature a center shelf that adjusts in 1" increments

No. of Shelves	Dimensions (L × W × H)	Weight	Cat. No.	Each
Deep Ledge Series Carts				
3	32.75 × 21.5 × 41" (85.7 × 54.6 × 104cm)	37.5 lb. (17kg)	**13-451-184**	410.50
2	38.75 × 27 × 41" (85.7 × 68.6 × 104cm)	35 lb. (15.8kg)	**13-451-185**	391.50
3	38.75 × 27 × 41" (85.7 × 68.6 × 104cm)	46.5 lb. (21kg)	**13-451-186**	478.50

Fisher Scientific™ Mini-Dolly Folding Cart

Ideal platform cart to move chemicals, carboys, computer paper, filing boxes and scientific equipment

- Load capacity: 265 lb. (120kg)
- Constructed of ABS plastic and chrome-plated steel with low, nonskid platform
- Eliminates lifting required by high-shelf carts
- Easy-roll wheels swivel for added maneuverability
- Plastic guard on four sides protects walls
- Folds for storage

ORDERING INFORMATION:
Weight: 15 lb. (6.8kg).

INCLUDES:
Three bungee cords

04-681

Platform Length	Width	Cat. No.	Each
25.5" (65cm)	17.75" (45cm)	**04-681**	192.00

Hamilton Scientific™ Max/Lab™ Mobile Instrument Carts

Ideal for adapting workstations to stand-up or sit-down procedures, for meeting ADA applications or for transporting heavy instruments between labs

Available in four adjustable styles with a variety of upper shelf and suspended drawer/cabinet configurations, including optional components. See individual model specifications.

- Maximum height of frame: 78 3/8" (199cm)
- Load-bearing capacity of all models: 900 lb. (18" deep shelves = 130 lb. each / Split work surfaces = 300 lb. each, 600 lb. total / Standard overall cart = 900 lb.)

Mobile Cart, 48" (122cm) overall width

- With fixed bottom shelf and 48W × 31"L (122 × 79cm) laminate top on adjustable-height frame
- Optional components available

Full-Height Mobile Cart, 60" (152cm) overall width

- With one 60W × 18"L (152 × 46cm) upper adjustable shelf and one 60W × 31"L (152 × 79cm) laminate top on an adjustable-height frame
- Available with or without fixed bottom shelf, suspended cabinet with lock and suspended drawer with lock
- Optional cabinets and drawers available

Mobile Cart with Upper Frame (to make full-height assembly)

- Features either a 48W × 18"L (122 × 46cm) or a 72W × 18"L (183 × 46cm) upper adjustable shelf; either a 48W × 31"L (122 × 79cm) or a 72W × 31"L (183 × 79cm) laminate top on an adjustable-height frame
- Available with or without suspended cabinet with lock
- Suspended drawer optional on select models

HMMICLAB006

Tops (W × L)	Fixed Bottom Shelf	Upper Adjustable Shelf (W × L)	Suspended Cabinet (W × L × H)	Suspended Drawer (W × L × H)	Cat. No.	Each
Mobile Cart, 48" (122cm) Overall Width						
One 48 × 31" (122 × 79cm)	Yes	Available as option	Available as option	Available as option	**HMMICLAB008**	3750.00
Full-height Mobile Carts, 60" (152cm) Overall Width						
One 60 × 31" (152 × 79cm)	No	One 60 × 18" (152 × 46cm)	Available as option	One 30 × 22¼ × 3" (76 × 57 × 8cm)	**HMMICLAB006**	3819.51
One 60 × 31" (152 × 79cm)	Yes	One 60 × 18" (152 × 46cm)	Available as option	Available as option	**HMMICLAB007**	4560.00
Mobile Carts with Upper Frame Assembly						
One 48 × 31" (122 × 79cm)	No	One 48 × 18" (122 × 46cm)	Available as option	Available as option	**HMMICLAB009**	3430.00
One 72 × 31" (183 × 79cm)	No	One 72 × 18" (183 × 46cm)	Available as option	Available as option	**HMMICLAB011**	3950.00

Labconco™ Variable-Height Bench

Easy-to-adjust bench can be set at four heights

- Load capacity: 540 lb. (245kg)
- Durable and chemical-resistant, glacier white, powder-coated tubular steel frame
- 1.125" (3cm) thick fiber-resin work surface is melamine high-pressure laminate
- Heavy-duty bench height adjustable from 29.625 and 37.4" (75 to 95cm) using steel pins and nuts
- Baked-on powder coating resists abrasion and corrosion
- 5" dia. (12.7cm) nonmarking polyurethane casters with toe locks maneuver easily and absorb vibration

ORDERING INFORMATION: Shipped fully assembled. Weight: 110 lb. (50.3kg).

WARRANTY: Lifetime guarantee.

11-926-110

W × L	Mfr. No.	Cat. No.	Each
38 × 28" (96.5 × 71.1cm)	8075000	**11-926-110**	1705.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Labconco™ Stockroom Cart

Combination cart and stepladder is useful in laboratories, stock rooms, libraries and mail rooms

16-317-25

- Built-in, sturdy, two-step stepladder with nonskid surface conforms to OSHA and ANSI guidelines. Steps are spring-loaded with skid-resistant, rubber feet to prevent cart from moving while user stands on stepladder. 16½" wide (42cm) oversized steps provide stability and security when reaching for items on high shelves. An angled safety handrail adds extra security. Steps withstand loads to 1000 lb. (453.6kg).
- Comes with two 2" deep (5cm), watertight, epoxy-coated steel pans with gray vinyl mats and one wire basket. Accommodates a variety of supplies, glassware, equipment and miscellaneous containers. Top shelf holds one 6½L × 16¾"W (16.5 × 42.5cm) pan and a 16L × 18W × 4"H (40.6 × 45.7 × 10.2cm) vinyl-coated wire basket. Bottom shelf holds one 17½L × 16¾"W (44.5 × 42.5cm) pan. All are fully removable for easy cleaning. Load capacity: 400 lb. (181.4kg).
- Hard rubber casters (4" diameter [10cm]) stabilize movement over rough, uneven floors. With durable welded frame of 1" (2.5cm) square steel tubing. Baked-on, epoxy-covered coating is abrasion- and corrosion-resistant. Colors: glacier white and grey.

ORDERING INFORMATION:
Comes fully assembled. Overall dimensions: 39½L × 19W × 43"H (100.3 × 48.3 × 109.2cm). Shipping weight: 69 lb. (31.3kg).

Mfr. No.	Cat. No.	Each
8021000	**16-317-25**	745.00

Labconco™ Flexi-Bin Multicomponent Carts

For safe transport of glassware and chemical containers

16-317-75

- For safe transport of glassware and chemical containers
- Removable, corrosion-resistant polyethylene bin; choice of 4- or 10" depth (10 or 25cm); bins are interchangeable
- Supplied with three long and four short polyethylene dividers to partition bin and hold items securely
- Glacier-white, epoxy-coated, 18-gauge welded tubular steel frame with rubber handle grips
- Open bottom shelf for additional storage
- Four 4" dia. (10cm) casters (two locking)
- Fully assembled
- Lifetime guarantee

Description	Mfr. No.	Cat. No.	Each
4" Deep Drawer	8010000	**16-317-74**	680.00
10" Deep Drawer	8010001	**16-317-75**	890.50

Labconco™ ScrubberMate Glassware and Rack Cart

Provides convenient storage and transport of extra Labconco washer racks, inserts or miscellaneous glassware

09-682-737

- Outfitted with 2.5" dia. (6.4cm) casters with toe locks
- L × W × H: 23.3 × 22.6 × 31.6" (56.6 × 57.4 × 80.3cm)

Mfr. No.	Cat. No.	Each
8027000	**09-682-737**	1954.00

Metro™ MW Series Utility Carts

Consist of Super Erecta™ shelves with plastic split sleeves, two one-piece handles and casters with donut bumpers

Cart

- Load capacity: 375 lb. (170.1kg)
- Fully interchangeable Super Erecta shelves
- Center shelf can be positioned at any height in 1" (2.5cm) increments
- One-piece stainless-steel or chrome handles (depends on model) add rigidity and durability
- 18" (46cm) carts have 4" dia. (10cm) casters; 21" (53cm) and 24" (61cm) wide carts have 5" dia. (13cm) casters
- Two- or three-tier models available
- 375 lbs (170kg) weight capacity per cart

Solid Shelves

- 18-gauge stainless-steel, doubly thick at the edges for rigidity and strength
- Raised edges help contain spills and make cleanup easier
- Sturdy corner castings facilitate mounting

Wire Shelves

- Chrome-plated or stainless-steel shelves available with trademarked truss design for added strength
- Corners slide easily over special tapered snap-together plastic sleeves to fasten them securely in place

ORDERING INFORMATION:
Shipped knocked down. Assembles/disassembles quickly and easily without tools.

MW Series Utility Cart

Type and Qty. of Shelves	Shelf Material	Handle Material	W × L × H	Mfr. No.	Cat. No.	Price
Solid (3)	Stainless Steel	Stainless Steel	18 × 24 × 38" (46 × 61 × 97cm)	MW203	**91132**	1351.00
Solid (3)	Stainless Steel	Stainless Steel	21 × 36 × 39" (53 × 91 × 99cm)	MW206	**91133**	1407.00
Solid (1) and Wire (2)	Stainless Steel, Chrome	Chrome	18 × 24 × 38" (46 × 61 × 97cm)	MW401	**91136**	685.00
Solid (1) and Wire (2)	Stainless Steel, Chrome	Chrome	21 × 36 × 38" (53 × 91 × 97cm)	MW404	**91137**	827.00
Wire (3)	Chrome	Chrome	18 × 30 × 38" (46 × 76 × 97cm)	MW703	**91138**	555.00

Rubbermaid™ Flat-Shelf Utility Carts

Made from durable, structural foam to eliminate denting rusting, and bending

- Load capacity: 250 lb. (113kg) per shelf
- All-plastic construction and 5" dia. (12.7cm) casters provide quiet operation and easy maintenance
- Easy to maneuver with quiet, mark-resistant casters
- Rounded corners prevent damage to walls and doorways
- Handle bin holds tools and other items
- Top-shelf "moat" keeps parts and accessories in place
- Mounting bracket serves as cord wrap and is ideal for holding soft wastebaskets

11-926-84A

ORDERING INFORMATION:
Color: beige. Also available in black; contact your Customer Service Representative for ordering information.

L × W × H	Cat. No.	Each
38.5 × 17.25 × 32.5" (97.8 × 43.8 × 82.6cm)	**11-926-84A**	412.50
43.625 × 25.625 × 33.312" (111 × 65 × 85cm)	**11-926-86A**	457.15

Rubbermaid™ Heavy-Duty Utility Cart with Aluminum Uprights

Versatile, functional cart for easy transport

- Load capacity: 200 lb. (91kg)
- Durable, easy-to-clean all-plastic construction with three molded shelves; resists rust, dents, chips and fading
- Features brushed aluminum uprights, molded-in color and smooth contours
- Ergonomically designed easy-grip handles on each end of cart
- Four 4" dia. (10cm) nonmarking, swivel casters for quiet maneuverability

11-926-71

ORDERING INFORMATION:
Color: platinum. Also available in black and off-white; contact your Fisher Scientific Customer Representative for ordering information. Shipped unassembled.

L × W × H	Weight	Mfr. No.	Cat. No.	Each
33.625 × 18.625 × 37.75" (85 × 47 × 96cm)	30 lb. (13.6kg)	3424-88 PLAT	**11-926-71**	489.00

Rubbermaid™ Heavy-Duty Utility Carts

Perfect for transporting equipment and heavy loads in any environment

- Load capacity: 500 lb. (227kg)
- Sturdy structural foam construction resists alkalis, solvents and dilute acids
- Low maintenance — won't chip, flake or dent
- Molded-in cup holder and compartments for small parts and tools
- Two deeply recessed seamless shelves help contain accidental spills and keep shelf contents in place
- Rounded external edges prevent damage to walls and furniture; rounded inside corners won't trap residue — making cleaning easier
- Comfortable molded handle for firm grip
- Two fixed and two swivel nonmarking, 5" dia. (12.7cm) casters

Heavy-duty Utility Cart

ORDERING INFORMATION:
Color: beige. Shipped unassembled. Assemble in minutes using screwdriver and pliers.
Optional middle shelf available separately. Carts also available in black.
Contact your Fisher Scientific Customer Service Representative for details.

L x W x H	Color	Weight	Mfr. No.	Cat. No.	Each
39.25 × 17.87 × 33.25" (99.6 × 45.3 × 84.4cm)	Beige	31 lb. (14kg)	FG450088BEIG	**11-926-75**	385.00
45 × 26 × 33" (114 × 66 × 84cm)	Beige	45 lb. (20.4kg)	FG452088BEIG	**11-926-85**	465.00

THINK GREEN

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Rubbermaid™ X-tra™ Carts

Large shelves hold small baths, centrifuges, pH meters and other equipment

- Load capacity: 300 lb. (135kg)
- Tough HDPE construction resists chips, dents, scratches and rust
- Easy-to-clean shelves with rounded interior corners and raised edges to keep small items from slipping off
- Ergonomically designed handles on both cart ends
- Quiet-rolling, nonmarking 4" dia. (10.2cm) casters

11-926-89

Utility Carts

- Choice of three-shelf models in three styles: open, enclosed on two end, and enclosed on three sides (virtually a cabinet on wheels)
- Also available in four-shelf open style

Instrument Cart

- Ideal for securely transporting tools and smaller equipment
- Three-shelf design: open top and middle shelves; enclosed bottom shelf has lockable doors
- Sliding drawer mounted underneath top shelf

ORDERING INFORMATION:
Assembly required. No special tools needed. Three-shelf carts (L × W × H): 20 × 40.5 × 37.8" (51 × 103 × 96cm). Four-shelf carts: 20 × 40.5 × 51" (51 × 103 × 130cm).

Description	Weight	Mfr. No.	Cat. No.	Each
White Three-Shelf Utility Carts				
Open Cart	43 lb. (19.5kg)	FG409100WHT	**11-926-87**	505.00
Enclosed on Two Ends	45 lb. (20.4kg)	FG409200WHT	**11-926-88**	652.00
Enclosed on Three Sides	51 lb. (23.1kg)	FG409300WHT	**11-926-89**	772.70
Black Four-Shelf Utility Cart				
Open Cart	52 lb. (23.6kg)	FG409600BLA	**11-926-97**	612.50
Gray Three-Shelf Instrument Cart				
With lockable doors/sliding drawer	52 lb. (23.6kg)	FG409400GRAY	**11-926-42**	895.00

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Lakeside™ Guardrail Utility Cart

Protective guardrail helps eliminate spills and breakage of materials

- Load capacity: 500 lb. (230kg)
- Welded stainless-steel construction for durability and easy sanitation
- Three fixed, open shelves with 2" (5cm) wraparound guardrail
- Integrated push handle allows for easy maneuverability of cart
- Standard handle and leg bumpers protect cart, walls and doorways from damage
- Four 4" dia. (10cm) rubber-cushioned, swivel casters for maneuverability

11-954-751

ORDERING INFORMATION:
Shipped assembled. Weight: 45 lb. (20.4kg).

Description	L × W x H	Mfr. No.	Cat. No.	Each
Two shelves; 700-lb. capacity	79 × 48 × 86cm	526	**11-954-751**	842.00

Lakeside™ Standard-Duty Utility Cart

Ideal for light-duty transport and storage

- Load capacity: 300 lb. (136kg)
- Durable welded stainless-steel construction cleans and sanitizes easily
- Designed for continuous transport even over uneven floor surfaces
- Integrated push handle for easy handling
- Three fixed, open shelves with reinforced, hemmed front for added strength
- Sound-deadening panels under shelves restrict vibrations and noise
- Bumpers on legs and handles protect walls and furniture
- Four 3 1/2" dia. (8.9cm) rubber-cushioned, swivel casters for maneuverability

11-954-750

ORDERING INFORMATION:
Shipped assembled. Weight: 29 lb. (13.2kg).

L x W x H	Mfr. No.	Cat. No.	Each
27.5L × 16.25W × 32.13"H (70 × 41 × 82cm)	311	**11-954-750**	389.50

Cell-Based Assays

Apoptosis Assays

Promega™ Caspase-Glo™ 3/7 Assay Kit

Provides a homogeneous luminescent assay that measures Caspase-3/7 activities

Utilizes a proluminescent Caspase-3/7 DEVD-aminoluciferin substrate and a proprietary thermostable luciferase in a single reagent optimized for Caspase-3/7 activity, luciferase activity and cell lysis. Stabilized luciferase improves assay performance across a wide range of assay conditions and makes the assay less likely to be affected by compound interference than other luminescent-, fluorescent-, or colorimetric-based assays.

STORAGE:
Store at -20°C.

INCLUDES:
Caspase-Glo 3/7 Substrate; Caspase-Glo 3/7 Buffer

Quantity	Assays/96 Wells†	Assays/384 Wells‡	Mfr. No.	Cat. No.	Each
2.5mL	25	100	G8090	**PR-G8090**	137.05
10mL	100	400	G8091	**PR-G8091**	447.85
10 × 10mL	1000	4000	G8093	**PR-G8093**	3401.48
100mL	1000	4000	G8092	**PR-G8092**	2274.85

†100µL/assay.
‡25µL/assay.
Patent pending.
The method of recombinant expression of Coleoptera luciferase is covered by U.S. Patent Nos. 5,583,024; 5,674,713; and 5,700,673.

Promega™ Caspase-Glo™ 8 and Caspase-Glo 9 Assay Systems

Highly sensitive homogeneous luminescent assays that measure either Caspase-8 or Caspase-9 activity

The addition of a single Caspase-Glo reagent in an "add-mix-read" format results in cell lysis, followed by caspase cleavage of the substrate, and generation of a stable "glow-type" luminescent signal. The signal generated is proportional to the amount of caspase activity present. The system now includes a separate vial of a protease inhibitor, MG-132 Inhibitor, which may be used to reduce background, thus improving the performance of the Caspase-Glo 9 and Caspase-Glo 8 assays in cell-based applications.

Size	Assays/96 wells	Assays/384 wells	Mfr. No.	Cat. No.	Each
Caspase-Glo 8 Assays					
2.5mL	25	100	G8200	**PR-G8200**	137.05
10mL	100	400	G8201	**PR-G8201**	447.85
100mL	1000	4000	G8202	**PR-G8202**	2272.69
Caspase-Glo 9 Assays					
2.5mL	25	100	G8210	**PR-G8210**	137.05
10mL	100	400	G8211	**PR-G8211**	447.85
100mL	1000	4000	G8212	**PR-G8212**	2272.69

U.S. Patent 6,602,677,
Australian Patent 754312 and other patents pending.
The method of recombinant expression of Coleoptera luciferase is covered by U.S. Patents 5,583,024; 5,674,713; and 5,700,673.

Thermo Scientific™ alamarBlue™ Cell Viability Assay Reagent

Rapid, sensitive and nontoxic cell viability indicator with fluorescent or colorimetric detection

The alamarBlue Reagent is a nontoxic, water-soluble resazurin dye that yields a fluorescent signal and a colorimetric change when incubated with metabolically active cells. The reagent is designed for cell viability and proliferation studies using mammalian cell lines, bacteria and fungi and is ideally suited for in vitro cytotoxicity studies. Additionally, cell viability can be monitored in real time when performing a variety of tissue engineering applications.

APPLICATIONS:

- Monitor cell proliferation and cell viability for in vitro cytotoxicity studies (e.g., effects of environmental toxins, cytokines, drugs, siRNA/microRNA)
- Monitor cell viability in real time for 3D tissue engineering applications

REQUIRES:
Fluorescent plate reader for excitation at 530 to 560nm and emission detection at 590nm, or spectrophotometer plate reader capable of reading 570nm and 600nm absorbance.

Item Name	Quantity	Sufficient For	Formulation	Cat No.	Each
alamarBlue Cell Viability Assay Reagent	25mL	2500 reactions in a 96-well plate or 10,000 reactions in a 384-well plate	Resazurin-based indicator-dye solution for quantitative analysis of cell growth and cytotoxicity	**PI88951**	177.24
alamarBlue Cell Viability Assay Reagent	100mL	10,000 reactions in a 96-well plate or 40,000 reactions in a 384-well plate	Resazurin-based indicator-dye solution for quantitative analysis of cell growth and cytotoxicity	**PI88952**	384.02

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Cell Viability and Cytotoxicity Assays

Thermo Scientific™ Pierce™ LDH Cytotoxicity Assay Kit

A colorimetric assay for measuring cellular cytotoxicity

The Pierce LDH Cytotoxicity Assay Kit measures extracellular LDH in culture media using an enzymatic reaction that results in a red formazan product which can be measured spectrophotometrically. Lactate dehydrogenase (LDH) is a cytosolic enzyme that is is an indicator of cellular toxicity. The assay is ideal for high-throughput screening and provides a safe alternative to radioactive cytotoxicity assays.

REQUIRES:
Microplate reader capable of reading absorbance at 490nm and 680nm, flat-bottom clear 96-well
plate compatible with spectrophotometer,
multichannel pipette

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce LDH Cytotoxicity Assay Kit	200-rxn kit	200 reactions in 96-well plates or 800 reactions in 384-well plates	Five-component kit	Substrate Mix, lyophilizate Assay Buffer, 0.6mL 10X Lysis Buffer, 2.5mL Stop Solution, 12mL LDH Positive Control, 6µL	**PI88953**	115.00
Pierce LDH Cytotoxicity Assay Kit	1000-rxn kit	1000 reactions in 96-well plates or 4000 reactions in 384-well plates	Five-component kit	Substrate Mix, 5 × lyophilizate Assay Buffer, 5 × 0.6mL 10X Lysis Buffer, 12mL Stop Solution, 60mL LDH Positive Control, 30µL	**PI88954**	313.34

Promega™ CellTiter-Blue™ Cell Viability Assays

Homogeneous, fluorescent method for monitoring cell viability

- Ideal for measuring cell proliferation, cytotoxicity or results of apoptosis
- Versatile system can be used with 96- or 384-well formats; data can be recorded using fluorescence (preferred) or absorbance
- Enable user to perform more than one assay on the same sample
- Excellent Z' factor; offers superior flexibility in assay incubation times
- Reagent is generally nontoxic to cells; requires no scintillation cocktail, radioactive waste disposal or hazardous solvents

APPLICATIONS:
Cell proliferation; Cytotoxicity; Cell viability

STORAGE:
Store frozen at -20°C protected from light.

Quantity	Mfr. No.	Cat. No.	Each
20mL	G8080	**PR-G8080**	125.18
100mL	G8081	**PR-G8081**	347.49
10 × 100mL	G8082	**PR-G8082**	2992.48

ON THE WEB...
Looking for More Cell Based Assays?
Visit www.fisheredu.com and search for Cell Viability Cytotoxicity Assays

Promega™ CytoTox 96™ Nonradioactive Cytotoxicity Assay

Colorimetric method for estimating the number of nonviable cells present in a sample

Quantitatively measures lactate dehydrogenase (LDH), a stable cytosolic enzyme that is released upon cell lysis, in much the same way as [51Cr] is released in radioactive assays. Released LDH in culture supernatants is measured with a 30 minute coupled enzymatic assay that results in the conversion of a tetrazolium salt (INT) into a red formazan product. The amount of color formed is proportional to the number of lysed cells. Visible wavelength absorbance data are collected using a standard 96-well plate reader. The assay can be used to measure membrane integrity for cell-mediated cytotoxicity assays in which a target cell is lysed by an effector cell, or to measure lysis of target cells by bacteria, viruses, proteins, chemicals, etc.

- Provides a quantitative measurement of lactate hydrogenase to determine cell-mediated cytotoxicity, chemical-mediated cytotoxicity and total cell number
- Reveals early, low-level damage to cell membranes
- Eliminates need to prelabel target cells
- Requires no radioactive waste disposal
- See individual component labels for storage instructions

APPLICATIONS:
Cytotoxicity; Chemosensitivity; Total cell number determination

Mfr. No.	Cat. No.	Each
G1780	**PR-G1780**	325.90

Promega™ CellTiter-Glo™ Luminescent Cell Viability Assay Kit

Luminescent method for determining the number of viable cells in culture based on the amount of ATP present

"Add-mix-measure" format results in cell lysis and generation of a luminescent signal proportional to the amount of ATP present. Data can be recorded using a luminometer or CCD camera 10 minutes after adding reagent.

APPLICATIONS:
Cell proliferation; Cytotoxicity; Cell viability

STORAGE:
Store at -20°C.

INCLUDES:
CellTiter-Glo Buffer; CellTiter-Glo Substrate (lyophilized)

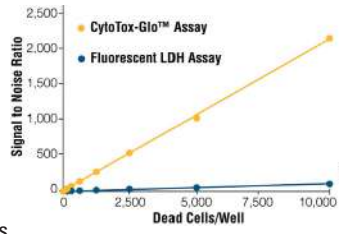
Quantity	Assays/96 Wells†	Assays/384 Wells‡	Mfr. No.	Cat. No.	Price
Ea.	100	400	G7570	**PR-G7570**	1/113.31
Ea.	1000	4000	G7571	**PR-G7571**	1/519.07
10 × 10mL	10,000	40,000	ZG7571	**PR-ZG7571**	10/5190.71
Ea.	1000	4000	G7572	**PR-G7572**	1/403.60
100mL	10,000	40,000	ZG7572	**PR-ZG7572**	10/4036.02
Ea.	10,000	40,000	G7573	**PR-G7573**	1/3441.41

†100µL/assay.
‡25µL/assay.
U.S. Pat. Nos. 6,602,677 and 7,241,584 and other patents and patents pending.
U.S. Pat. No. 7,770,310 and other patents and patents pending.
U.S. Pat. Nos. 7,083,911, 7,452,663 and 7,732,128 and other patents and patents pending.
U.S. Pat. No. 7,741,067 and other patents and patents pending.
The method of recombinant expression of Coleoptera luciferase is covered by U.S. Patents 5,583,024; 5,674,713; and 5,700,673.

Promega™ CytoTox-Glo™ Cytotoxicity Assay

Luminescent cytotoxicity assay measures the relative number of dead cells in cell populations

Measures the extracellular activity of a distinct intracellular protease activity when the protease is released from membrane-compromised cells.



- Distinguish between small differences in viability
- Data normalization for dead-cell number makes results more comparable well-to-well, plate-to-plate and day-to-day
- Reduce statistical probability of false-positives (or false-negatives), and eliminate fluorescence interference issues with a stable luminescence readout

APPLICATIONS: Determine cytotoxicity, total cell number determination, multiplexed viability and cytotoxicity

STORAGE: Store at -20°C, protected from light.

Quantity	Mfr. No.	Cat. No.	Each
10mL	G9290	**PR-G9290**	131.66
5 × 10mL	G9291	**PR-G9291**	522.31
2 × 50mL	G9292	**PR-G9292**	802.89

Proliferation Assays

Promega™ CellTiter 96™ AQueous Nonradioactive Cell Proliferation Assay Kit (MTS)

Provides a colorimetric method for determining the number of viable cells in proliferation, cytotoxicity or chemosensitivity assays

Contains a solution composed of a novel tetrazolium compound, MTS [3-(4,5-dimethylthiazol-2-yl)-5-(3-carboxymethoxyphenyl)-2-(4-sulfophenyl)-2H-tetrazolium, inner salt] and an electron coupling reagent, PMS (phenazine methosulfate). The MTS and PMS solutions are combined and added to cells in culture.

APPLICATIONS: Cell proliferation; Cytotoxicity; Cell viability; Chemosensitivity; Cell attachment determinations; Chemotaxis

STORAGE: For long-term storage, store MTS and PMS Solutions at -20°C, protected from light.

Description	Quantity	Mfr. No.	Cat. No.	Each
CellTiter 96 AQueous Nonradioactive Cell Proliferation Assay	1000 Assays	G5421	**PR-G5421**	274.10
	5000 Assays	G5430	**PR-G5430**	893.54
CellTiter 96 AQueous MTS Reagent Powder	250mg	G1112	**PR-G1112**	336.69
	1g	G1111	**PR-G1111**	965.84

Promega™ CellTiter 96™ AQueous One Solution Cell Proliferation Assay (MTS)

Homogeneous colorimetric assay determines the number of viable cells in proliferation, cytotoxicity or chemosensitivity assays

Convenient solution combines PES, a chemically stable electron coupling reagent, and MTS, a novel tetrazolium compound that is soluble in tissue culture medium. Absorbance of the formazan product at 490nm can be measured from the assay plate and is directly proportional to the number of living cells in culture.

APPLICATIONS: Cell proliferation; Cell viability; Cytotoxicity; Chemosensitivity; Cell attachment determination; Chemotaxis

STORAGE: Store at -20°C, protected from light.

Quantity	Mfr. No.	Cat. No.	Each
1000 Assays	G3580	**PR-G3580**	321.59
5000 Assays	G3581	**PR-G3581**	1059.73

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Promega™ CellTiter 96™ Nonradioactive Cell Proliferation Assay (MTT)

Collection of reagents provides a convenient method of determining viable cell number in proliferation

- Modification of MTT Assay method reduces serum protein precipitation and interference by phenol red; increases solubilization of formazan crystals and stability of colored product
- Measures cell proliferation, cell attachment, cytotoxicity, chemotaxis and results of apoptosis
- Detects as few as 1000 cells/well with a 96-plate reader; greater sensitivity than the neutral red assay procedure
- Time-saving procedure eliminates washing steps, cell harvesting and scintillation counting; no need to weigh or mix dye components
- Flexible assay allows either a four-hour or overnight protocol

APPLICATIONS: Cell proliferation; Cell viability; Cytotoxicity; Cell attachment; Chemotaxis

STORAGE: Store Dye Solution at -20°C and Solubilization/Stop Solution at room temperature.

Quantity	Mfr. No.	Cat. No.	Each
1000 Assays	G4000	**PR-G4000**	311.87
5000 Assays	G4100	**PR-G4100**	901.09

Reporter Assay Systems

Thermo Scientific™ Pierce™ Cypridina Luciferase Flash Assay Kits

Reporter assay for detection of promoter activity in live cells

This Flash Assay Kit contains reagents for measuring the activity of Cypridina luciferase in mammalian cell culture media and lysates. When used with Thermo Scientific Cypridina Luc Vectors, the kit provides an extremely sensitive bioluminescent reporter assay system for secreted or intracellular detection of promoter or pathway activity. Cypridina luciferase is highly secreted into the cell culture media, allowing for live cell monitoring of reporter activity. The signal produced by Cypridina is considerably greater than signal from either firefly or Renilla luciferases assayed under similar conditions.

APPLICATIONS:
Promoter studies for analyzing cis-regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Secretory pathway / protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

Pierce Cypridina Luciferase Flash Assay Kit, 100-rxn kit

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Cypridina Luciferase Flash Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Cypridina Flash Assay Buffer, 5mL 100X Vargulin, 50µL Luciferase Cell Lysis Buffer (2X), 6mL	**PI16168**	77.02
Pierce Cypridina Luciferase Flash Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Cypridina Flash Assay Buffer, 50mL 100X Vargulin, 0.5mL Luciferase Cell Lysis Buffer (2X), 60mL	**PI16169**	439.94

Thermo Scientific™ Pierce™ Cypridina Luciferase Flash Glow Assay Kits

A sensitive luciferase reporter assay system with stable signal output

This Pierce Luciferase Glow Assay Kit contains reagents for measuring Cypridina luciferase activity in mammalian cell culture media and ysates. When used with Thermo Scientific Cypridina Luc Vectors, the kit provides an extremely sensitive bioluminescent reporter assay system for secreted or intracellular detection of luciferase activity. The light output generated by the luciferase reaction can be correlated to the amount of luciferase protein produced, which in turn is proportional to the activity of the promoter driving the luciferase expression. The kit can be used to detect the activity of any Cypridina luciferases or derivatives that use Vargulin as a substrate.

APPLICATIONS:
Promoter studies for analyzing cis- regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Secretory pathway / protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

INCLUDES: Cell lysis buffer, reaction buffer and substrate

REQUIRES: Cypridina luciferase and luminometer or other instrument capable of monitoring luminescence.

Pierce Cypridina Luciferase Glow Assay Kit, 100-rxn kit

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Cypridina Luciferase Glow Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Cypridina Glow Assay Buffer, 5mL 100X Vargulin, 50µL Luciferase Cell Lysis Buffer (2X), 6mL	**PI16170**	87.57
Pierce Cypridina Luciferase Glow Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Cypridina Glow Assay Buffer, 50mL 100X Vargulin, 0.5mL Luciferase Cell Lysis Buffer (2X), 60mL	**PI16171**	494.80

Thermo Scientific™ Cypridina Luciferase Reporter Assay Vectors

Cypridina reporter plasmids to clone genes for luciferase assays

The Cypridina Luc Vectors contain a gene cloned from the marine ostracod, Cypridina noctiluca. The gene encodes a naturally-secreted bioluminescent Cypridina luciferase (62kDa), which enables measurement of the reporter activity in media (for real-time assays) and in cell lysates. The pMCS vector contains a multiple cloning site for cloning a promoter to study its regulatory potential. The pCMV and pTK vectors have the luciferase gene under the CMV (Cytomegalovirus) promoter and Herpes Simplex Virus (HSV) thymidine kinase (TK) promoter, respectively. These constitutive expression vectors can be used as normalization controls to account for experimental variation in combination with other reporters.

pMCS-Cypridina Luc, 10µg

Item Name	Quantity	Formulation	Cat. No.	Each
pMCS-Cypridina Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16149**	60.14
pCMV-Cypridina Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16150**	60.14
pTK-Cypridina Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16151**	60.14

Thermo Scientific™ Pierce™ Cypridina-Firefly Luciferase Dual Assay Kits

Detect two spectrally separated luciferase reporters in a single sample

The Pierce Cypridina-Firefly Luciferase Dual Assay Kit is a highly sensitive assay that allows for the simultaneous detection of Cypridina and Red Firefly luciferase activity. Cypridina luciferase acts as an experimental reporter with constitutively active red firefly as a normalization control. This reporter-and-control combination enables simultaneous monitoring of experimental reporter and control luciferase activities in a single-read assay without the need for two-step addition of substrate reagents or quenching. The assay working solution contains substrates for both luciferases, and the reactions occur simultaneously with flash-type kinetics. The resulting luminescent signals are spectrally resolvable using filters. In a single sample, researchers can assay transcriptional activity of regulatory elements, signal transduction pathways, and effects of activators or inhibitors.

APPLICATIONS:
Study two regulatory elements at the same time; Monitor two signaling pathways simultaneously; Enable studying more than one target per screen (e.g. off-target effects)

Pierce Cypridina-Firefly Luciferase Dual Assay Kit, 1000-rxn kit

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Cypridina-Firefly Luciferase Dual Assay Kit	100-rxn kit	100 dual assays in microplate wells	Four-component kit	Cypridina-Firefly Dual Assay Buffer, 5mL 100X Vargulin, 50µL D-Luciferin, 3mg Luciferase Cell Lysis Buffer (2X), 6mL	**PI16183**	104.45
Pierce Cypridina-Firefly Luciferase Dual Assay Kit	1000-rxn kit	1000 dual assays in microplate wells	Four-component kit	Cypridina-Firefly Dual Assay Buffer, 50mL 100X Vargulin, 0.5mL D-Luciferin, 30mg Luciferase Cell Lysis Buffer (2X), 60mL	**PI16184**	715.29

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Thermo Scientific™ Pierce™ Firefly Luciferase Flash Assay Kits

Reporter assay for intracellular detection of promoter or pathway activity

Thermo Scientific Pierce Firefly Luciferase Flash Assay Kit contains reagents to measure the activity of firefly luciferase in mammalian whole cell lysates. Containing a convenient lysis buffer, assay buffer and firefly substrate, this kit provides a complete reagent system for the intracellular detection of promoter or pathway activity. Light output resulting from the luciferase reaction is captured using a luminometer and can be correlated with the amount of firefly luciferase protein produced and used to determine the activity of the promoter driving firefly expression. These reagents are optimized to work with Thermo Scientific Firefly Luc Plasmids; however, the Flash Assay Kit may be used to detect the activity of other firefly or ATP-dependent luciferases utilizing D-luciferin as a substrate.

Pierce Firefly Luciferase Flash Assay Kit, 100-rxn kit

APPLICATIONS: Promoter studies for analyzing cis- regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Secretory pathway / protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Firefly Luciferase Flash Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Firefly Flash Assay Buffer, 5mL D-Luciferin, 3mg Luciferase Cell Lysis Buffer (2X), 6mL	**PI16174**	77.02
Pierce Firefly Luciferase Flash Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Firefly Flash Assay Buffer, 50mL D-Luciferin, 30mg Luciferase Cell Lysis Buffer (2X), 60mL	**PI16175**	439.94

Thermo Scientific™ Pierce™ Firefly Luciferase Glow Assay Kits

A sensitive luciferase reporter assay system with stable signal output

This Pierce Luciferase Glow Assay Kit contains reagents for measuring the activity of firefly luciferase in cell lysates. In the presence of firefly luciferase, the glow reagent provides stable bioluminescent signal and is highly suited for luminometers without injectors or for batch processing of samples. The light output generated by the luciferase reaction can be correlated with the amount of luciferase protein produced which in turn is proportional to the promoter activity driving the luciferase expression. The glow assay reagents were optimized for best results with Thermo Scientific Firefly Luc Plasmids; however, this assay kit may be used to detect the activity of other firefly or ATP-dependent luciferases that use D-luciferin as a substrate.

Pierce Firefly Luciferase Glow Assay Kit, 100-rxn kit

APPLICATIONS: Promoter studies for analyzing cis- regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Firefly Luciferase Glow Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Firefly Glow Assay Buffer, 5mL D-Luciferin, 3mg Luciferase Cell Lysis Buffer (2X), 6mL	**PI16176**	87.57
Pierce Firefly Luciferase Glow Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Firefly Glow Assay Buffer, 50mL D-Luciferin, 30mg Luciferase Cell Lysis Buffer (2X), 60mL	**PI16177**	494.80

Thermo Scientific™ Pierce™ Gaussia LentiLuc Packaging Kit and Lentiviral Control Particles

Stably express the secreted Gaussia luciferase in dividing and non-dividing mammalian cells

The Pierce Gaussia Lentiluc Packaging Kit contains the vectors and reagents to create custom lentivirus particles to stably express Gaussia luciferase in difficult-to-transfect cells for various experiments, including reporter gene assays. The kit includes a promoterless Gaussia luciferase transfer vector into which the promoter of interest is cloned upstream of the luciferase gene. This vector is then co-transfected into HEK293T packaging cells along with the Trans-Lentiviral Packaging Mix, a solution of five plasmids that each encodes separate viral packaging elements. Replication-incompetent lentivirus particles are then collected from the cell culture supernatant and used to transduce stable Gaussia luciferase expression in target cells.

Pre-packaged CMV- and TK-Guassia LentiLuc Control Particles facilitate stable luciferase expression under the control of a strong or weak promoter, respectively, and are used as normalization controls in combination with custom lentivirus particles or to create stable cell lines that express varying levels of Guassia luciferase.

APPLICATIONS:
Reporter gene assays in difficult-to-transfect cells.
Generation of stable cell lines for small-molecule screening, whole-animal imaging, secretory pathway analyses

REQUIRES:
BSL-2 or enhanced BSL-2 containment cell culture facility and government and institution approval for acceptance and use of lentivirus particles

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce Gaussia LentiLuc Packaging Kit	10-rxn kit	10 packaging reactions	Five-component kit	Trans-Lentiviral Packaging Mix, 285µg CaCl2 Reagent,1.2mL HBSS Reagent (2X), 1.2mL Precision LentiORF RFP Control DNA, 0.45µg/µL (45µg) pLenti-MCS-Gaussia Luc, 0.5	**PI85252**	865.10
Pierce CMV-Gaussia LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia luciferase	N/A	**PI85260**	541.22
Pierce CMV-Gaussia LentiLuc Particles	5 x 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia luciferase	N/A	**PI85261**	1622.59
Pierce TK-Gaussia LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia luciferase	N/A	**PI85262**	541.22
Pierce TK-Gaussia LentiLuc Particles	5 x 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia luciferase	N/A	**PI85263**	1622.59

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Thermo Scientific™ Pierce™ Gaussia Luciferase Flash Assay Kits

Reporter assay for detection of promoter activity in live cells

This Flash Assay Kit contains reagents for measuring the activity of Gaussia luciferase in mammalian cell culture media and lysates. When used with Thermo Scientific Gaussia Luc Vectors, the kit provides an extremely sensitive bioluminescent reporter assay system for secreted or intracellular detection of promoter or pathway activity. Gaussia luciferase is highly secreted into the cell culture media, allowing for live cell monitoring of reporter activity. The signal produced by Gaussia is considerably greater than signal from either firefly or Renilla luciferases assayed under similar conditions.

APPLICATIONS:
Promoter studies for analyzing cis- regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Secretory pathway/ protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

Pierce Gaussia Luciferase Flash Assay Kit, 100-rxn kit

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Gaussia Luciferase Flash Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Gaussia Flash Assay Buffer, 5mL 100X Coelenterazine, 50µL Luciferase Cell Lysis Buffer (2X), 6mL	**PI16158**	77.02
Pierce Gaussia Luciferase Flash Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Gaussia Flash Assay Buffer, 50mL 100X Coelenterazine, 0.5mL Luciferase Cell Lysis Buffer (2X), 60mL	**PI16159**	439.94

Thermo Scientific™ Gaussia Luciferase Reporter Assay Vectors

Plasmids to clone genes to express proteins for secreted luciferase assays

The Gaussia Luc Vectors contain a gene cloned from the copepod, Gaussia princeps. The gene encodes a naturally-secreted bioluminescent Gaussia luciferase (approx. 20kDa), which enables measurement of the reporter activity in media (for real-time assays) and in cell lysates. The pMCS vector contains a multiple cloning site for cloning a promoter to study its regulatory potential. The pCMV and pTK vectors have the luciferase gene under the CMV (Cytomegalovirus) promoter and Herpes Simplex Virus (HSV) thymidine kinase (TK) promoter, respectively. These constitutive expression vectors can be used as normalization controls to account for experimental variation in combination with other reporters.

pMCS-Gaussia Luc, 10ug

Item Name	Quantity	Formulation	Cat. No.	Each
pMCS-Gaussia Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16146**	60.14
pCMV-Gaussia Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16147**	60.14
pTK-Gaussia Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16148**	60.14

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Thermo Scientific™ Pierce™ Gaussia-Dura LentiLuc Packaging Kit and Lentiviral Control Particles

Stably express the secreted Gaussia-Dura luciferase in dividing and non-dividing mammalian cells

The Pierce Gaussia-Dura Lentiluc Packaging Kit contains the vectors and reagents to create custom lentivirus particles to stably express Gaussia-Dura luciferase in difficult-to-transfect cells for various experiments, including reporter gene assays. The kit includes a promoterless Gaussia-Dura luciferase transfer vector into which the promoter of interest is cloned upstream of the luciferase gene. This vector is then co-transfected into HEK293T packaging cells along with the Trans-Lentiviral Packaging Mix, a solution of five plasmids that each encodes separate viral packaging elements. Replication-incompetent lentivirus particles are then collected from the cell culture supernatant and used to transduce stable Gaussia-Dura luciferase expression in target cells.

Pre-packaged CMV- and TK-Guassia-Dura LentiLuc Control Particles facilitate stable luciferase expression under the control of a strong or weak promoter, respectively, and are used as normalization controls in combination with custom lentivirus particles or to create stable cell lines that express varying levels of Guassia luciferase.

APPLICATIONS:
Reporter gene assays in difficult-to-transfect cells. Generation of stable cell lines for small-molecule screening, whole-animal imaging, secretory pathway analyses

REQUIRES:
BSL-2 or enhanced BSL-2 containment cell culture facility and government and institution approval for acceptance and use of lentivirus particles

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce Gaussia-Dura LentiLuc Packaging Kit	10-rxn kit	10 packaging reactions	Five-component kit	Trans-Lentiviral Packaging Mix, 285µg CaCl2 Reagent,1.2mL HBSS Reagent (2X), 1.2mL Precision LentiORF RFP Control DNA, 0.45µg/µL (45µg) pLenti-MCS-Gaussia-Dura Luc, 0.5	**PI85253**	865.10
Pierce CMV-Gaussa-Dura LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia-Dura luciferase	N/A	**PI85264**	541.22
Pierce CMV-Gaussa-Dura LentiLuc Particles	5 × 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia-Dura luciferase	N/A	**PI85265**	1622.59
Pierce TK-Gaussa-Dura LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia-Dura luciferase	N/A	**PI85266**	541.22
Pierce TK-Gaussa-Dura LentiLuc Particles	5 × 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Gaussia-Dura luciferase	N/A	**PI85267**	1622.59

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Thermo Scientific™ Pierce™ Gaussia Luciferase Glow Assay Kits

A sensitive luciferase reporter assay system with stable signal output

This Pierce Luciferase Glow Assay Kit contains reagents for measuring Gaussia luciferase activity in mammalian cell culture media and lysates. When used with Thermo Scientific Gaussia-Dura Luc Vectors, the kit provides an extremely sensitive bioluminescent reporter assay system for secreted or intracellular detection of luciferase activity with extended signal stability. The light output generated by the luciferase reaction can be correlated to the amount of luciferase protein produced, which in turn is proportional to the activity of the promoter driving the luciferase expression. The kit can be used to detect the activity of any Gaussia luciferases or derivatives that use coelenterazine as a substrate.

APPLICATIONS:
Promoter studies for analyzing cis- regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Secretory pathway / protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

Pierce Gaussia Luciferase Glow Assay Kit, 100-rxn kit

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Gaussia Luciferase Glow Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Gaussia Glow Assay Buffer, 5mL 100X Coelenterazine, 50µL Luciferase Cell Lysis Buffer (2X), 6mL	**PI16160**	87.57
Pierce Gaussia Luciferase Glow Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Gaussia Glow Assay Buffer, 50mL 100X Coelenterazine, 0.5mL Luciferase Cell Lysis Buffer (2X), 60mL	**PI16161**	494.80

Thermo Scientific™ Gaussia-Dura Luciferase Reporter Assay Vectors

Plasmids to clone genes to express proteins for secreted luciferase assays

The Gaussia Dura Luc Vectors contains a mutant form of the Gaussia luciferase gene that confers better bioluminescent signal stability than native luciferase. Gaussia-Dura luciferase (approx. 20kDa) is a secreted protein, which enables measurement of the reporter activity in media (for real-time assays) and in cell lysates. The pMCS vector contains a multiple cloning site for cloning a promoter to study its regulatory potential.

The pCMV and pTK vectors have the luciferase gene under the CMV (Cytomegalovirus) promoter and Herpes Simplex Virus (HSV) thymidine kinase (TK) promoter, respectively. These constitutive expression vectors can be used as normalization controls to account for experimental variation in combination with other reporters.

pMCS-Gaussia-Dura Luc, 10ug

Item Name	Quantity	Formulation	Cat. No.	Price
pMCS-Gaussia-Dura Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16190**	60.14
pCMV-Gaussia-Dura Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16191**	60.14
pTK-Gaussia-Dura Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16192**	60.14

Thermo Scientific™ Pierce™ Gaussia-Firefly Luciferase Dual Assay Kit

Detect two spectrally separated luciferase reporters in a single sample

The Pierce Gaussia-Firefly Luciferase Dual Assay Kit is a highly sensitive assay that allows for the simultaneous detection of Gaussia and Red Firefly luciferase activity. Gaussia luciferase acts as an experimental reporter with constitutively active red firefly as a normalization control. This reporter-and-control combination enables simultaneous monitoring of experimental reporter and control luciferase activities in a single-read assay without the need for two-step addition of substrate reagents or quenching. The assay working solution contains substrates for both luciferases, and the reactions occur simultaneously with flash-type kinetics. The resulting luminescent signals are spectrally resolvable using filters. In a single sample, researchers can assay transcriptional activity of regulatory elements, signal transduction pathways, and effects of activators or inhibitors.

Pierce Gaussia-Firefly Luciferase Dual Assay Kit, 100-rxn kit

APPLICATIONS:
Study two regulatory elements at the same time; Monitor two signaling pathways simultaneously; Enable studying more than one target per screen (e.g. off-target effects)

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Gaussia-Firefly Luciferase Dual Assay Kit	100-rxn kit	100 dual assays in microplate wells	Four-component kit	Gaussia-Firefly Dual Assay Buffer, 5mL 100X Coelenterazine, 50µL D-Luciferin, 3mg Luciferase Cell Lysis Buffer (2X), 6mL	**PI16181**	104.45
Pierce Gaussia-Firefly Luciferase Dual Assay Kit	1000-rxn kit	1000 dual assays in microplate wells	Four-component kit	Gaussia-Firefly Dual Assay Buffer, 50mL 100X Coelenterazine, 0.5mL D-Luciferin, 30mg Luciferase Cell Lysis Buffer (2X), 60mL	**PI16182**	715.29

Thermo Scientific™ Pierce™ Cell Lysis Reagents For Luciferase Assays

Prepare cell lysates for luciferase reporter assays

The Pierce Luciferase Cell Lysis Buffer is effective for preparing high-yield mammalian cell lysates from either adherent cells or pelleted suspension cells for analysis in luciferase reporter assays. The reagent is compatible with all Thermo Scientific Pierce Luciferase Assay Kits. The cell lysis buffer has been validated for use with COS-7, NIH3T3, Jurkat and other cell types. Lysates are produced rapidly and easily for luciferase assays and are also compatible with BCA and Coomassie (Bradford) protein assays.

Highlights:

- Compatible with all Pierce Luciferase Reporter Assays
- Enables rapid and efficient lysis
- Tested compatibility with multiple Mammalian cell lines
- Compatible with protein assays (e.g., Coomassie Plus and BCA)

Pierce Luciferase Cell Lysis Buffer (2X), 250mL

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Pierce Luciferase Cell Lysis Buffer (2X)	250mL	Lysis of cells in fifty 96-well plates	Proprietary detergent in 25mM bicine buffer, pH 7.6	**PI16189**	165.64

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Thermo Scientific™ Pierce™ Green Renilla LentiLuc Packaging Kit and Lentiviral Control Particles

Stably express Green Renilla luciferase in dividing and non-dividing mammalian cells

The Pierce Green Renilla Lentiluc Packaging Kit contains the vectors and reagents to create custom lentivirus particles to stably express Green Renilla luciferase in difficult-to-transfect cells for various experiments, including reporter gene assays. The kit includes a promoterless Green Renilla luciferase transfer vector into which the promoter of interest is cloned upstream of the luciferase gene. This vector is then co-transfected into HEK293T packaging cells along with the Trans-Lentiviral Packaging Mix, a solution of five plasmids that each encodes separate viral packaging elements. Replication-incompetent lentivirus particles are then collected from the cell culture supernatant and used to transduce stable Green Renilla luciferase expression in target cells.

Pre-packaged CMV- and TK-Green Renilla LentiLuc Control Particles facilitate stable luciferase expression under the control of a strong or weak promoter, respectively, and are used as normalization controls in combination with custom lentivirus particles or to create stable cell lines that express varying levels of Green Renilla luciferase.

INCLUDES:
Complete kit contains Green Renilla transfer vector, packaging mix, control vector and packaging cell transfection reagents

REQUIRES:
BSL-2 or enhanced BSL-2 containment cell culture facility and government and institution approval for acceptance and use of lentivirus particles

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce Green Renilla LentiLuc Packaging Kit	10-rxn kit	10 packaging reactions	Five-component kit	Trans-Lentiviral Packaging Mix, 285µg CaCl2 Reagent,1.2mL HBSS Reagent (2X), 1.2mL Precision LentiORF RFP Control DNA, 0.45µg/µL (45µg) pLenti-MCS-Green Renilla Luc, 0.5	**PI85254**	865.10
Pierce CMV-Green Renilla LentiLuc Particles	25µL 3 transduction reactions	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Green Renilla luciferase	N/A	**PI85268**	541.22
Pierce CMV-Green Renilla LentiLuc Particles	5 × 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Green Renilla luciferase	N/A	**PI85269**	1622.59
Pierce TK-Green Renilla LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Green Renilla luciferase	N/A	**PI85270**	541.22
Pierce TK-Green Renilla LentiLuc Particles	5 × 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL) constitutively expressing Green Renilla luciferase	N/A	**PI85271**	1622.59

Thermo Scientific™ Green Renilla Luciferase Reporter Assay Vectors

Renilla reporter plasmids to clone genes for luciferase assays

The Green Renilla Luc Vectors contain a gene cloned from the sea pansy, Renilla reniformis. The gene encodes a bioluminescent Green Renilla luciferase (36kDa). The pMCS vector contains a multiple cloning site for cloning a promoter to study its regulatory potential. The pCMV and pTK vectors have the luciferase gene under the CMV (Cytomegalovirus) promoter and Herpes Simplex Virus (HSV) thymidine kinase (TK) promoter, respectively. These constitutive expression vectors can be used as normalization controls to account for experimental variation in combination with other reporters.

Highlights:

- Intracellular Green Renilla luciferase gene, optimized for high expression in mammalian systems
- Multiple cloning site (MCS) provides versatility for transfer of regulatory elements from one plasmid to another
- Transcription termination site (Ter), Lac operator (Lac O1), and transcriptional pause site (TPS) used to minimize background by reducing transcriptional read-through
- Both puromycin (Pur) and ampicillin (Amp) markers for drug selection in mammalian and bacterial cells, respectively
- High-copy pUC bacterial DNA replication origin
- Two control vectors available with strong (CMV) or weak (TK) constitutive promoters for co-transfection and normalization

pMCS-Green Renilla Luc, 10ug

Item Name	Quantity	Formulation	Cat. No.	Each
pMCS-Green Renilla Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16152**	60.14
pCMV-Green Renilla Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16153**	60.14
pTK-Green Renilla Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16154**	60.14

Thermo Scientific™ Pierce™ Red Firefly LentiLuc Packaging Kit and Lentiviral Control Particles

Stably express Red Firefly luciferase in dividing and non-dividing mammalian cells

Contains the vectors and reagents to create lentivirus particles to stably express Red Firefly luciferase in difficult-to-transfect cells Includes a promoterless Red Firefly luciferase transfer vector into which the promoter of interest is cloned upstream of the luciferase gene. This vector is then co-transfected into HEK293T packaging cells along with the Trans-Lentiviral Packaging Mix, a solution of five plasmids that each encodes separate viral packaging elements. Replication-incompetent lentivirus particles are then collected from the cell culture supernatant and used to transduce stable Red Firefly luciferase expression in target cells.

CMV- and TK-Red Firefly LentiLuc Control Particles facilitate stable luciferase expression under the control of a strong or weak promoter, respectively, and are used as normalization controls in combination with custom lentivirus particles or to create stable cell lines that express varying levels of Red Firefly luciferase.

INCLUDES:
Complete kit contains Red Firefly transfer vector, packaging mix, control vector and packaging cell transfection reagents

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce Red Firefly LentiLuc Packaging Kit	10-rxn kit	10 packaging reactions	Five-component kit	Trans-Lentiviral Packaging Mix, 285µg CaCl2 Reagent,1.2mL HBSS Reagent (2X), 1.2mL Precision LentiORF RFP Control DNA, 0.45µg/µL (45µg) pLenti-MCS-Red Firefly Luc, 0.5ug/spec	**PI85255**	865.10
Pierce CMV-Red Firefly LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL)	N/A	**PI85272**	541.22
Pierce CMV-Red Firefly LentiLuc Particles	5 × 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL)	N/A	**PI85273**	1622.59
Pierce TK-Red Firefly LentiLuc Particles	25µL	3 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL)	N/A	**PI85274**	541.22
Pierce TK-Red Firefly LentiLuc Particles	5 × 25µL	15 transduction reactions	Transduction-ready purified lentiviruses (>10^8 TU per mL)	N/A	**PI85275**	1622.59

Thermo Scientific™ Red Firefly Luciferase Reporter Assay Vectors

Red firefly reporter plasmids for bright protein expression in luciferase assays

Contain a mutant form of the firefly luciferase gene that has a red-shifted emission spectrum. The pMCS vector contains a multiple cloning site for cloning a promoter to study its regulatory potential. The pCMV and pTK vectors have the luciferase gene under the CMV promoter and Herpes Simplex Virus (HSV) thymidine kinase (TK) promoter, respectively. Can be used as normalization controls to account for experimental variation.

Highlights:

- Intracellular Red Firefly Luciferase gene, optimized for high expression in mammalian systems
- Multiple cloning site (MCS) provides versatility for transfer of regulatory elements from one plasmid to another
- Transcription termination site (Ter), Lac operator (Lac O1), and transcriptional pause site (TPS) used to minimize background by reducing transcriptional read-through
- Both puromycin (Pur) and ampicillin (Amp) markers for drug selection in mammalian and bacterial cells, respectively
- High-copy pUC bacterial DNA replication origin
- Two control vectors available with strong (CMV) or weak (TK) constitutive promoters

pMCS-Red Firefly Luc, 10ug

Item Name	Quantity	Formulation	Cat. No.	Each
pMCS-Red Firefly Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16155**	60.14
pCMV-Red Firefly Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16156**	60.14
pTK-Red Firefly Luc	10µg	DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5	**PI16157**	60.14

Thermo Scientific™ Pierce™ Renilla Luciferase Flash Assay Kits

Bioluminescent reporter assay for detection of promoter activity in whole cell lysate

Contains reagents for measuring the activity of Renilla luciferase in mammalian cell lysates. When used with Thermo Scientific Green Renilla Luc Plasmids, the kit provides an extremely sensitive bioluminescent reporter assay system for intracellular detection of promoter or pathway activity. The signal produced by Green Renilla Luc is considerably greater than signal from either native firefly or Renilla luciferases assayed under similar conditions. Light output captured using a luminometer can be correlated with the amount of Renilla luciferase protein produced and used to determine the activity of the promoter driving Renilla expression.

Pierce Renilla Luciferase Flash Assay Kit, 100-rxn kit

Highlights:

- Sensitive – greater sensitivity allows utilization of smaller numbers of cells
- Cost effective – highest sensitivity assays result in decreased reagent consumption
- Time-saving – assays require minimal sample handling
- Automation-friendly – amenable to high throughput screens
- Convenient – contains a universal cell lysis buffer and optimized flash assay reagent
- Safe – allows one to perform non-radioactive assays

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Renilla Luciferase Flash Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Renilla Flash Assay Buffer, 5mL 100X Coelenterazine, 50µL Luciferase Cell Lysis Buffer (2X), 6mL	**PI16164**	77.02
Pierce Renilla Luciferase Flash Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Renilla Flash Assay Buffer, 50mL 100X Coelenterazine, 0.5mL Luciferase Cell Lysis Buffer (2X), 60mL	**PI16165**	439.94

Thermo Scientific™ Pierce™ Renilla Luciferase Glow Assay Kits

A highly sensitive luciferase reporter assay system with stable signal output

Contains reagents for measuring the activity of Renilla luciferase in cell lysates. In the presence of luciferase, the glow reagent provides stable bioluminescent signal and is highly suited for luminometers without injectors or for batch processing of samples. The light output generated by the luciferase reaction can be correlated with the amount of luciferase protein produced which in turn is proportional to the promoter activity driving the luciferase expression. The glow assay reagents were optimized for best results with Thermo Scientific Green Renilla Luc Plasmids; however, this glow kit may be used to detect the activity of other Renilla luciferase derivatives that use coelenterazine as a substrate.

Pierce Renilla-Firefly Luciferase Dual Assay Kit, 100-rxn kit

Highlights:

- Sensitive – highly sensitive detection of Green Renilla luciferase activity
- Stable – increased signal stability compared to flash assays
- Simple – does not require a luminometer with injectors
- Compatible – assay reagents compatible with other Renilla luciferases
- Automation-friendly – amenable to high throughput assays
- Convenient – contains a universal cell lysis buffer and optimized glow assay reagent
- Safe – allows one to perform non-radioactive assays

APPLICATIONS: Promoter studies for analyzing cis- regulatory elements and trans-acting factors; Drug screening; siRNA and miRNA screening; Multiplexed assays to study off-target effects; Protein localization reporter assays; Signal transduction pathway analysis; RNA splicing studies

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Renilla Luciferase Glow Assay Kit	100-rxn kit	100 luciferase assays in microplate wells	Three-component kit	Renilla Glow Assay Buffer, 5mL 100X Coelenterazine, 50µL Luciferase Cell Lysis Buffer (2X), 6mL	**PI16166**	87.57
Pierce Renilla Luciferase Glow Assay Kit	1000-rxn kit	1000 luciferase assays in microplate wells	Three-component kit	Renilla Glow Assay Buffer, 50mL 100X Coelenterazine, 0.5mL Luciferase Cell Lysis Buffer (2X), 60mL	**PI16167**	494.80

Thermo Scientific™ Pierce™ Renilla-Firefly Luciferase Dual Assay Kits

Detect two spectrally separated luciferase reporters in a single sample

The Pierce Renilla-Firefly Luciferase Dual Assay Kit is a highly sensitive assay that allows for the simultaneous detection of Green Renilla and Red Firefly luciferase activity. Green Renilla luciferase acts as an experimental reporter with constitutively active red firefly as a normalization control. This reporter-and-control combination enables simultaneous monitoring of experimental reporter and control luciferase activities in a single-read assay without the need for two-step addition of substrate reagents or quenching. The assay working solution contains substrates for both luciferases, and the reactions occur simultaneously with flash-type kinetics. The resulting luminescent signals are spectrally resolvable using filters. In a single sample, researchers can assay transcriptional activity of regulatory elements, signal transduction pathways, and effects of activators or inhibitors.

Highlights:

- Simultaneous – concurrent, filter-based, wavelength-separated detection of two luciferase activities
- Sensitive – measure Green Renilla and red firefly luciferase activities in the same sample
- Fast – no quenching step required, unlike in traditional sequential dual assays
- Multiplex – capable of quantitating two cellular activities in the same sample(s)

APPLICATIONS: Study two regulatory elements at the same time; Monitor two signaling pathways simultaneously; Enable studying more than one target per screen (e.g. off-target effects)

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Renilla-Firefly Luciferase Dual Assay Kit	100-rxn kit	100 dual assays in microplate wells	Four-component kit	Renilla-Firefly Dual Assay Buffer, 5mL 100X Coelenterazine, 50µL D-Luciferin, 3mg; Luciferase Cell Lysis Buffer (2X), 6mL	**PI16185**	104.45
Pierce Renilla-Firefly Luciferase Dual Assay Kit	1000-rxn kit	1000 dual assays in microplate wells	Four-component kit	Renilla-Firefly Dual Assay Buffer, 50mL 100X Coelenterazine, 0.5mL D-Luciferin, 30mg; Luciferase Cell Lysis Buffer (2X), 60mL	**PI16186**	715.29

Thermo Scientific™ Pierce™ Renilla-Firefly Luciferase Dual Assay Kits

Detect two spectrally separated luciferase reporters in a single sample

The Pierce Renilla-Firefly Luciferase Dual Assay Kit is a highly sensitive assay that allows for the simultaneous detection of Green Renilla and Red Firefly luciferase activity. Green Renilla luciferase acts as an experimental reporter with constitutively active red firefly as a normalization control. This reporter-and-control combination enables simultaneous monitoring of experimental reporter and control luciferase activities in a single-read assay without the need for two-step addition of substrate reagents or quenching. The assay working solution contains substrates for both luciferases, and the reactions occur simultaneously with flash-type kinetics. The resulting luminescent signals are spectrally resolvable using filters. In a single sample, researchers can assay transcriptional activity of regulatory elements, signal transduction pathways, and effects of activators or inhibitors.

Pierce Renilla-Firefly Luciferase Dual Assay Kit, 100-rxn kit

Highlights:

- Simultaneous – concurrent, filter-based, wavelength-separated detection of two luciferase activities
- Sensitive – measure Green Renilla and red firefly luciferase activities in the same sample
- Fast – no quenching step required, unlike in traditional sequential dual assays
- Multiplex – capable of quantitating two cellular activities in the same sample(s)

APPLICATIONS: Study two regulatory elements at the same time; Monitor two signaling pathways simultaneously; Enable studying more than one target per screen (e.g. off-target effects)

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Renilla-Firefly Luciferase Dual Assay Kit	100-rxn kit	100 dual assays in microplate wells	Four-component kit	Renilla-Firefly Dual Assay Buffer, 5mL 100X Coelenterazine, 50µL D-Luciferin, 3mg; Luciferase Cell Lysis Buffer (2X), 6mL	**PI16185**	104.45
Pierce Renilla-Firefly Luciferase Dual Assay Kit	1000-rxn kit	1000 dual assays in microplate wells	Four-component kit	Renilla-Firefly Dual Assay Buffer, 50mL 100X Coelenterazine, 0.5mL D-Luciferin, 30mg; Luciferase Cell Lysis Buffer (2X), 60mL	**PI16186**	715.29

Thermo Scientific™ Pierce™ Signal Enhancer for Firefly Luciferase

For signal enhancement of firefly flash and glow assay kits

The Pierce Firefly Signal Enhancer is designed to to be used with the Pierce Firefly Luciferase Flash Assay Kit (Cat. No. 16174, 16175) and Pierce Firefly Luciferase Glow Assay Kit (Cat. No. 16176, 16177). When used with the flash assay kit, the enhancer provides a five-fold increase in signal. When used with the glow assay kit, the enhancer solution increases the signal strength and duration up to two-fold and also increases stability of the bioluminescent signal.

Pierce Firefly Signal Enhancer (100X), 0.5mL

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Pierce Firefly Signal Enhancer (100X)	0.5mL	1000 reactions with firefly luciferase assays	Proprietary aqueous reagent optimized for enhancing light output with Pierce Firefly Luciferase Glow and Flash Assay Kits	**PI16180**	33.76

Promega™ Bright-Glo™ Luciferase Assay System

Designed to meet the needs of continuous-process systems

- Provides robust, homogeneous assay chemistry that achieves high sensitivity and approximately half-hour signal half-life
- Does not require sample processing prior to assay — cells may be grown and assayed in the same multiwell plate
- Produces up to tenfold greater light intensity than other homogeneous luciferase assay reagents
- Less sensitive to mixing conditions, sample evaporation and pipetting errors than other systems, resulting in improved assay reproducibility
- Easy to use — no need to thaw or measure substrate before use
- Also suitable for use in lower throughput applications that require high sensitivity and ease of use

STORAGE:
Store substrate at -20°C; store buffer below 25°C.

INCLUDES:
Bright-Glo Luciferase Assay Substrate; Bright-Glo Luciferase Assay Buffer

Quantity	Mfr. No.	Cat. No.	Each
1 × 10mL, 1/Pk.	E2610	**PR-E2610**	133.81
1 × 100mL, 1/Pk.	E2620	**PR-E2620**	803.97
10 × 100mL, 1/Pk.	E2650	**PR-E2650**	6823.47

U.S. Patents 5,641,641; 5,650,289; and 5,814,471; Australian Patent 649289 and other patents and patents pending.
The method of recombinant expression of Coleoptera luciferase is covered by U.S. Patents 5,583,024; 5,674,713; and 5,700,673.
Certain applications of this product may require licenses from others.

GLOBAL COVERAGE WITH A LOCAL TOUCH

The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

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Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

Promega™ Dual-Glo™ Luciferase Assay System

Generates both firefly and Renilla luciferase luminescence signals

Homogeneous reagent system enables fast and simple quantitation of stable luminescence from two reporter genes in a single sample. The activity of the primary reporter is correlated with the effect of specific stimuli and the activity of the co-transfected control reporter provides an internal control to normalize results.

- Co-reporter minimizes effects of cell number, cell health, transfection efficiency and nonspecific cellular responses
- Cells may be assayed for both reporters directly in growth medium — no preconditioning or prelysing necessary
- Stable signal may be measured for up to two hours after reagent addition — ideal for batch or continuous processing of 96- and 384-well plates
- Two-step assay is suitable for any luminometer — no on-board injectors required
- Linear range extends over at least six logs of enzyme concentration for each reporter

STORAGE: Store Dual-Glo Substrates at -20°C; store Dual-Glo Buffers below 25°C.

INCLUDES: Dual-Glo Luciferase Buffer; Dual-Glo Luciferase Substrate; Dual-Glo Stop & Glo™ Buffer; Dual-Glo Stop and Glo Substrate

Quantity	Mfr. No.	Cat. No.	Each
10mL	E2920	**PR-E2920**	246.05
100mL	E2940	**PR-E2940**	1544.26
10 × 100mL	E2980	**PR-E2980**	10,786.10

U.S. Patents 5,641,641; 5,650,289; and 5,814,471; Australian Patent 649289 and other patents.
U.S. Patent 5,744,320; Australian Patent 721172; Canadian Patent 2,221,522 and other patents.
U.S. Patents 7,078,181; 7,108,996; 7,118,878; Australian Patent 2001275325 and other patents pending.
The method of recombinant expression of Coleoptera luciferase is covered by U.S. Patents 5,583,024; 5,674,713; and 5,700,673.
Certain applications of this product may require licenses from others.
This product does not convey a license to use recombinant Renilla luciferase under U.S. Patent 5,418,155 and related patents. Promega sells licensed Renilla luciferase vectors, which may be used in conjunction with this product.

Promega™ Dual-Luciferase™ Reporter (DLR™) Assay Systems

Combine the speed and sensitivity of two luciferase reporter enzymes into an integrated single-tube dual reporter assay

Provide immediate, sequential quantitation of both firefly and sea pansy (Renilla reniformis) luciferases in cell lysates or cell-free translation systems for internal normalization of gene expression measurements. Supplied Passive Lysis Buffer (also available separately) can be used to rapidly prepare cell lysates from cells grown in 96-well plates.

- Offer a linear range that extends seven logs
- Sensitive enough to allow study of weak promoters, low-level expression/regulation and expression in cells that transfect poorly
- Complete both assays in approximately four seconds when used with reagent autoinjectors

Dual-Luciferase Reporter 1000 Assay System

- Developed for larger-volume users
- Configured for use in 96-well luminometry plates
- Supplies additional volume of both assay reagents to allow for priming of reagent injectors

STORAGE: Store at -20°C.

INCLUDES: Luciferase Assay Buffer II; Luciferase Assay Substrate (lyophilized product); Stop & Glo Buffer; Passive Lysis 5X Buffer; Stop & Glo Reagent Bottle (E1980 Series only)

Description	Quantity	Mfr. No.	Cat. No.	Each
Dual-Luciferase Reporter Assay System	Ea.	E1910	**PRE1910**	236.33
	10 × 100 Assays	E1960	**PR-E1960**	1509.73
	100 × 100 Assays	ZE1960	**PR-ZE1960**	15,097.31
Dual-Luciferase Reporter 1000 Assay System	1000 Assays	E1980	**PR-E1980**	1394.26
Passive Lysis 5X Buffer	30mL	E1941	**PR-E1941**	85.25

U.S. Pat. Nos. 7,078,181, 7,108,996 and 7,118,878 have been issued to Promega Corporation for a method for increasing luminescence assay sensitivity. Other patents are pending. This product does not convey a license to use recombinant Renillaitalics *luciferase under U.S. Pat. No. 5,418,155 and related patents. Promega sells licensed* Renillaitalics *luciferase vectors, which may be used in conjunction with this product. The method of recombinant expression of* Coleopteraitalics *luciferase is covered by U.S. Pat. Nos. 5,583,024, 5,674,713 and 5,700,673. U.S. Pat. No. 5,744,320, Australian Pat. No. 721172, European Pat. No. 0 833 939, Canadian Pat. No. 2,221,522, Japanese Pat. No. 3601606 and Korean Pat. No. 10-438880 have been issued to Promega Corporation for quenching reagents and assays for enzyme-mediated luminescence. U.S. Pat. Nos. 5,641,641, 5,650,289 and 5,814,471, Australian Pat. No. 649289, European Pat. No. 0 553 234 and Japanese Pat. No. 3171595 have been issued to Promega Corporation for a beetle luciferase assay method, which affords greater light output with improved kinetics as compared to the conventional assay. Certain applications of this product may require licenses from others.*

Promega™ Steady-Glo™ Luciferase Assay System

Provides long-lived luminescence when added to cultured cells

- Ideal for quantitation of firefly luciferase expression in mammalian cells by batch processing of 96- and 384-well plates
- Can process several thousand samples per hour with high reproducibility under standard laboratory conditions
- Provides signal half-lives over five hours in commonly used cell culture media without prior sample processing
- Results in greater assay sensitivity than other extended-lifetime firefly luciferase assay reagents
- Less sensitive to mixing conditions for improved assay reproducibility
- Compatible with many tissue culture media, including those containing up to 10% serum

Quantity	Mfr. No.	Cat. No.	Price
10mL	E2510	**PR-E2510**	106.84
100mL	E2520	**PR-E2520**	782.38
10 × 100mL	E2550	**PR-E2550**	6036.77

STORAGE: Store substrate at -20°C; store buffer below 25°C.

This product does not convey a license to use recombinant Renilla *luciferase under U.S. Pat. No. 5,418,155 and related patents. Promega sells licensed* Renilla *luciferase vectors, which may be used in conjunction with this product.*
Certain applications of this product may require licenses from others.
Patent Pending.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Before You Buy **Cell Culture Treated Flasks**

Thermo SCIENTIFIC

Reasons why cell culture researchers favor EasYFlasks:

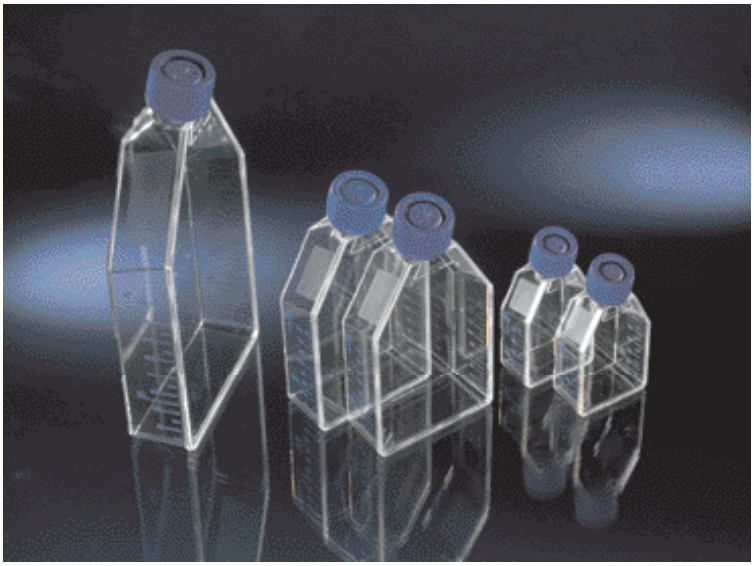
- **Ergonomic design** with a 1/3 turn to open, close or vent
- **Low profile** to maximize incubator space
- **Volume graduations** printed and molded on both sides
- **Slightly angled side walls** for complete viewing under a microscope
- **Sterilized by gamma irradiation and certified to be nonpyrogenic**
- **Nunclon Delta Certification,** including testing on four different cell types, provided in each case

Making it Easy

Enhanced cell attachment, growth and differentiation

The name of this flask says it all!

Enhance cell attachment, growth and differentiation with Thermo Scientific™ Nunc™ Cell Culture Treated EasYFlasks™. These flasks receive our proprietary cell culture surface treatment – offering maximum adhesion for a broad range of cell types. The ergonomic design with angled neck and wide opening allows easy access to the growth surface by pipettes or cell scrapers.



Nunc EasYFlasks with Filter or Vent/Close Caps

CAT. NO.	SURFACE	CLOSURE	CULTURE AREA, CM³	WORKING VOL., ML	NO. PER PACK	NO. PER CASE
12565351	Nunclon Delta-treated	Filter	25	7	10	200
12565349	Nunclon Delta-treated	Filter	75	25	5	100
12562000	Nunclon Delta-treated	Filter	175	55	5	30
12565221	Nunclon Delta-treated	Filter	225	70	5	30
12565348	Nunclon Delta-treated	Vent/Close	25	7	10	200
12565350	Nunclon Delta-treated	Vent/Close	75	25	5	100
12562001	Nunclon Delta-treated	Vent/Close	175	55	5	30
12565220	Nunclon Delta-treated	Vent/Close	225	70	5	30

Cell Culture

Media - Classical

HyClone™ Classical Liquid Media Dulbeccos Modified Eagles Medium

Manufactured using ISO 9001:2000-certified processes

- All raw material components must pass strict Quality Control testing to confirm the appropriate level of quality
- Tested to determine which (if any) ingredients are of animal origin or, if they have come in contact with animal-derived materials in manufacture
- System tested with HyClone sera to ensure product efficacy and homogeneity
- All products are hydrated using WFI quality water and undergo 0.1µm sterile filtration.
- Manufactured using ISO 9001:2000-certified processes
- Offered in a variety of packaging configurations, including convenient HyQPAK™ six-packs

Description	Mfr. No.	Cat. No.	Each
DMEM with High Glucose, with 4.0 mM L-Glutamine, without Sodium Pyruvate	SH30022.01	**SH3002201**	19.68
DMEM with High Glucose, with 4.0 mM L-Glutamine, without Sodium Pyruvate	SH30022.FS	**SH30022FS**	114.00
DMEM with High Glucose, with 4.0 mM L-Glutamine, without Sodium Pyruvate	SH30022.02	**SH3002202**	31.44
DMEM with High Glucose, with 4.0 mM L-Glutamine, without Sodium Pyruvate	SH30022.LS	**SH30022LS**	182.40

Corning™ cellgro™ glutagro™ DMEM Medium

Improved stability over the L-glutamine media supplement

Dulbecco's Modified Eagle's Medium (DMEM) is a modification of Basal Medium Eagle (BME) containing four-fold concentrations of the amino acids and vitamins found in BME. The original formulation was used to culture embryonic mouse cells and has since been modified to support a variety of normal and transformed cells, such as primary cultures of mouse and chicken cells. DMEM formulations can differ in the amount or absence of components such as glucose, sodium pyruvate, sodium bicarbonate and L-glutamine.

- pH: 7.2±0.2
- Osmolality: 335 ±30 mOsm/kg H_20
- Endotoxin: ≤0.25 EU/mL @ FW
- Medium is augmented with 4.5g/L glucose and sodium pyruvate
- Supplemented with cellgro glutaGRO supplement in place of L-glutamine for optimal performance

STORAGE:
Store at 2° to 8°C

Quantity	Mfr. No.	Cat. No.	Pack of 6
500mL	10-101-CV	**MT10101CV**	177.10

Corning™ cellgro™ Dulbecco's Modification of Eagle's (Mod.) 1X (DMEM)

- Hybridoma tested

MT-10-017-CV

ON THE WEB...

Looking for More Corning Classical Media?

Visit www.fishersci.com and search for cellgro

Description	Size	Mfr. No.	Cat. No.	Price
With L-Glutamine, 4.5g/L Glucose, and Sodium Pyruvate	6 × 1L	10 013 CM	**MT-10-013-CM**	225.50
With L-Glutamine, 4.5g/L Glucose, and Sodium Pyruvate	6 × 500mL	10 013 CV	**MT-10-013-CV**	124.80
With L-Glutamine, 1.0g/L Glucose, and Sodium Pyruvate	6 × 1L	10 014 CM	**MT-10-014-CM**	193.30
With L-Glutamine and 4.5g/L Glucose; Without Sodium Pyruvate	6 × 1L	10 017 CM	**MT-10-017-CM**	202.50
With L-Glutamine and 4.5g/L Glucose; Without Sodium Pyruvate	6 × 500mL	10017CV	**MT-10-017-CV**	120.60
Without L-Glutamine; With 4.5g/L Glucose and Sodium Pyruvate	6 × 1L	15 013 CM	**MT-15-013-CM**	189.44
Without L-Glutamine; With 4.5g/L Glucose and Sodium Pyruvate	6 × 500mL	15013CV	**MT-15-013-CV**	152.35
Without L-Glutamine and Sodium Pyruvate; With 4.5g/L Glucose	6 × 1L	15 017 CM	**MT-15-017-CM**	202.00
Without L-Glutamine; With 4.5g/L Glucose, Sodium Pyruvate, and 25mM HEPES	6 × 1L	15 018 CM	**MT-15-018-CM**	294.50
Without L-Glutamine; With 4.5g/L Glucose, Sodium Pyruvate, and 25mM HEPES	6 × 500mL	15018CV	**MT-15-018-CV**	172.80
Without L-Glutamine, L-Methionine, and L-Cystine; With 4.5 g/L Glucose and Sodium Pyruvate	6 × 100mL	17105CV	**MT-17-204-CI**	76.10
With 4.5g/L Glucose and Sodium Pyruvate; Without L-Glutamine and Phenol Red	6 × 500mL	17205CV	**MT-17-205-CV**	154.30
With 4.5g/L Glucose and Sodium Pyruvate; Without L-Glutamine and Phosphate	6 × 100mL	17206CI	**MT-17-206-CI**	100.90

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ cellgro™ RPMI 1640 Medium (Mod.) 1X

Guaranteed low endotoxin levels ≤0.025EU/mL

- Complete line of media and reagents for mammalian in vitro cell culture
- Ready-to-use media is supplied in polyethylene teraphthalate (PET) plastic bottles
- Sonically welded cap liners eliminate toxic resins or glues that could leach into media
- Shipped at ambient temperature

Description	Size	Cat. No.	Each
With L-Glutamine and 25mM HEPES	6 × 1L	**MT-10-041-CM**	186.00
With L-Glutamine[2]	6 × 1L	**MT-10-040-CM**	121.70
	6 × 500mL	**MT-10-040-CV**	323.50
With L-Glutamine; Without Glucose	6 × 500mL	**MT-10-043-CV**	182.58
Without L-Glutamine and Phenol Red	6 × 500mL	**MT-17-105-CV**	110.40
Without L-Glutamine, With 25mM HEPES	6 × 500mL	**MT-15-041-CV**	180.50
Without L-Glutamine	6 × 1L	**MT-15-040-CM**	163.40
	6 × 500mL	**MT-15-040-CV**	162.20
With L-Glutamine and 25mM HEPES	6 × 500mL	**MT-10-041-CV**	22.82
Without L-Glutamine, L-Methionine, and L-Cystine	6 × 100mL	**MT-17-104-CI**	20.58

MT-10-040-CM

Lonza BioWhittaker™ Dulbecco's Modified Eagle's Medium

DMEM is used in a wide range of mammalian cell culture applications. The high glucose version is well suited to high density suspension culture and the low glucose formula is used for adherent dependent cells.

STORAGE:
Store as detailed on label.

Description	Quantity	Cat. No.	Each
w/4.5g Glucose per Liter and L-Glutamine	500mL	**BW12-604F**	22.40
	12 × 500mL	**BW12-604F12**	217.50
	1L	**BW12-604Q**	32.25
	12 × 1L	**BW12-604Q12**	345.00
w/4.5g L-Glucose per Liter, w/o L-Glutamine	500mL	**BW12-614F**	21.50
	12 × 500mL	**BW12-614F12**	227.00
	12 × 1L	**BW12-614Q12**	341.00

Lonza BioWhittaker™ RPMI 1640

- Manufactured using formulations recommended by the Tissue Culture Association and Water for Injection (WFI) quality water

STORAGE:
Store as detailed on the label.

Description	Quantity	Mfr. No.	Cat. No.	Each
w/o L-Glutamine	12 × 500mL	12-167F12	**BW12-167F12**	211.00

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Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

Media - Specialty

HyClone™ HyCell-STEM™ Media

Complete media for culturing human embryonic stem cells (hESCs) and induced pluripotent stem (hiPS) cells

HyCell-STEM Media is designed to help generate large numbers of human embryonic and induced pluripotent stem cells with fewer passages and is intended for use with stem cells on feeder layer cultures. HyCell-STEM is provided as a 6X supplement that is added to DMEM/F12 to create a complete media. Basic fibroblast growth factor is added to the completed media at time of use.

Highlights:

- Increase rate of expansion
- Sustain healthy stem cell morphology
- Maintain stemness
- Preserve pluripotency
- Improved post-thaw recovery
- HyCell-STEM Media is intended for use with stem cells on feeder layer cultures

STORAGE:
Upon receipt, store HyCell-STEM 6X supplement frozen (-20°C) and DMEM/F12 at 2° to 8°C. Before use, thaw 6X supplement overnight at 2° to 8°C. Avoid repeated freeze/thaw of supplement.

INCLUDES:
HyCell-STEM kit includes 6x supplement and DMEM/F12 to create a complete media. Basic fibroblast growth factor must be added to the completed media at time of use.

REQUIRES:
bFGF (10ng/ml) must be added to the media at time of use.

Description	Quantity	Mfr. No.	Cat. No.	Each
HyCell-STEM media kit; Includes 10mL 6x supplement and 500mL DMEM/F12	600mL Kit	SR30003.KT	**SR30003.KT**	85.20
HyCell-STEM-FF media kit; includes 100mL 6x supplement and 500mL DMEM/F12	600mL Kit	SR30004.KT	**SR30004.KT**	171.60
HyCell-STEM 6x supplement; 100mL	100mL	SR30003.01	**SR30003.01**	66.60
HyCell-STEM-FF 6x supplement; 500mL	500mL	SR30004.01	**SR30004.01**	153.60

Lonza BioWhittaker™ X-VIVO™ Hematopoietic Serum-Free Culture Media

For adoptive immunotherapy and cellular therapy research

Does not contain any lymphokines required for activation of human lymphocytes.

- Intended for in vitro procedures
- Device Master Records (DMRs) for these products are held in an FDA Master File
- Chemically defined media optimized for specific cell types
- For further manufacturing or laboratory use

X-VIVO 10™

- Designed to support the generation of lymphokine activated killer (LAK) cells in a serum-free environment

X-VIVO 15™

- Similar in composition to X-VIVO 10 Medium
- Supports the proliferation of lymphocytes, including tumor infiltrating lymphocytes (TIL) and macrophages under serum-free conditions

STORAGE: Store at 2° to 8°C (36° to 46°F).

NOTES: Limited by Federal (USA) law to investigational use. These products are for research use only. Not approved for human or veterinary use, for application to humans or animals or for use in clinical or in vitro procedures.

Description	Quantity	Mfr. No.	Cat. No.	Each†
X-VIVO 10				
w/o Gentamicin & Phenol Red contains Recomb. Transferrin	1L	BE02-055Q	**BW-BE0-2055Q**	107.00
w/ Gentamicin and Phenol Red	1L	04-380Q	**BW04-380Q**	113.20
w/o Gentamicin or Phenol Red	1L	04-743Q	**BW04-743Q**	125.50
X-VIVO 15				
Contains Recomb. Transferrin	1L	BE02-053Q	**BW-BE0-2053Q**	98.00
w/o Gentamicin and Phenol Red contains Recomb. Transferrin	1L	BE02-054Q	**BW-BE0-2054Q**	107.00
w/ Gentamicin and Phenol Red	1L	04-418Q	**BW04-418Q**	113.20
w/o Gentamicin or Phenol Red	1L	04-744Q	**BW04-744Q**	125.50

†Store as detailed on label

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Lonza BioWhittaker™ General-Purpose Serum-Free Media

Chemically defined media optimized for specific cell types

PC-1™

- Provides complete media system, including PC-1 Supplement for cultivation of primary cells and anchorage-dependent cell lines
- Contains complete HEPES buffering system

UltraCULTURE™

- Designed for growth of adherent and nonadherent cells

STORAGE: Store as detailed on label.

BW Series

Description	Quantity	Mfr. No.	Cat. No.	Each†
PC-1 Complete media system	2 × 500mL	77232	**BW77-232**	234.00
UltraCULTURE media	500mL	12-725F	**BW12-725F**	62.80

†Store as detailed on label.

Sera/Serum Replacements

HyClone™ Calf Serum (U.S.), Iron-Supplemented

Supplemented with iron to boost serum transferrin levels to physiological levels

Iron-Supplemented Bovine Calf Serum:

- Age at time of collection: 16-22 weeks
- Three to four times as much available iron and transferrin as FBS or equine serum

Serum Collection:

- From collection to final packaging
- Every step is documented
- Full traceability compliant with current Good Manufacturing Practices (cGMP)

Quick and Reliable Processing:

- Extensive quality, performance, and analytical testing
- Aseptically packaged in a Class 100 clean room

Quality Control Testing Standards:

- Each lot of serum is tested to ensure quality and sterility

True Pool Processing:

- Pooled after filtration and before final packaging
- Consistent quality from the first bottle filled to the last
- Increases consistency and minimizes variability with a lot of serum

Specifications	
Endotoxin	≤10 EU/mL
Hemoglobin	≤10 mg/dl
Sterility: Bacteria & Fungi	No Growth
Virus Testing (9 CFR 113.53) Fluorescent Antibody	
Bluetongue Virus	Not Detected
Bovine Adenovirus	Not Detected
Bovine Parvovirus	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected
Bovine Viral Diarrhea Virus	Not Detected
Rabies Virus	Not Detected
Reovirus	Not Detected
Cytopathogenic Agents	Not Detected
Hemadsorbing Agents	Not Detected
Mycoplasma	
Large Volume, Direct Culture	Not Detected
Hoechst DNA Stain	Not Detected
Certificate of Suitability	Included

Additional assays performed (subject to change without notice): Insulin, Gamma Globulin, Alkaline Phosphatase, Lactate Dehydrogenase, Glutamic Pyruvic Transaminase (SGPT), Glutamic Oxaloacetic Transaminase (SGOT), pH, Total Protein, Albumin, Blood Urea Nitrogen, Creatinine, Total Bilirubin, Sodium, Potassium, Calcium, Chloride, Phosphorus, Osmolality, Iron, Total Iron Binding Capacity (TIBC), Percent Saturation, Glucose and IgG.

Description	Quantity	Mfr. No.	Cat. No.	Each
Iron-Supplemented Bovine Calf Serum, U.S. Origin	500mL	SH30072.03	**SH3007203**	72.60
Iron-Supplemented Bovine Calf Serum, U.S. Origin, Heat Inactivated	500mL	SH30072.03HI	**SH3007203HI**	81.60

HyClone™ Bovine Growth Serum (U.S.)

Supplemented with chemically-defined components including vitamins, amino acids, trace metals and other small molecules to stimulate cell growth and proliferation

- Filtered through three sequential 100nm (0.1µm) pore-size rated filters

Specifications	
Endotoxin EU per mL	≤10EU/mL
Hemoglobin [mg or dl]	≤10mg/dL
Mycoplasma [Detected or Not]	Yes
Sterility	Yes
Tested for Bluetongue	Yes
Tested for Bovine Adenovirus	Yes
Tested for Bovine Parvovirus	Yes
Tested for Bovine RSV	Yes
Tested for BVDV	Yes
Tested for Cytopathogenic Agents	Yes
Tested for Hemadsorbing Agents	Yes
Tested for Rabies Virus	Yes
Tested for Reovirus	Yes
Certificate of Suitability [Provided or Not]	Included

Assays (Subject to change without notice): Insulin, Gamma Globulin, Alkaline Phosphatase, Lactate Dehydrogenase, Glutamic Pyrivic Transaminase (SGPT), Glutamic Oxaloacetic Transaminase (SGOT), pH, Total Protein, Albumin, Blood Urea Nitrogen, Creatinine, Total Bilirubin, Sodium, Potassium, Calcium, Chloride, Phosphorus, Osmolality, Iron, Total Iron Binding Capaicty (TIBC), Percent Saturation, Glucose and IgG.

Description	Quantity	Mfr. No.	Cat. No.	Each
Bovine Growth Serum	500mL	SH30541.03	**SH3054103**	128.40
Bovine Growth Serum, Heat Inactivated	500mL	SH30541.03HI	**SH3054103HI**	136.80

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The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

Sales Representatives . . . Customer Service Representatives . . . Application Specialists . . . Safety Specialists . . . Chemical Specialists . . .

Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

HyClone™ Fetal Bovine Serum (U.S.), Embryonic Stem (ES) Cell Screened

Research using embryonic stem (ES) cells continues to increase, and serum suitability is critical for keeping these cells in their valuable undifferentiated state. Historically, researchers were required to screen several lots of serum to find one suitable for ES research.

- Tested according to a protocol adapted from Gene Targeting, A.L. Joyner, 1995
- Selected from our highest quality defined FBS lots
- Filtered through sequential 40nm (0.04µm) pore-size rated filters
- Endotoxin: ≤10 EU/mL; Hemoglobin ≤10mg/dL

SH3007003E

Specifications	
Endotoxin EU per mL	≤10EU/mL
Hemoglobin [mg or dl]	≤10mg/dL
Mycoplasma [Detected or Not]	Yes
Sterility	Yes
Tested for Bluetongue	Yes
Tested for Bovine Adenovirus	Yes
Tested for Bovine Parvovirus	Yes
Tested for Bovine RSV	Yes
Tested for BVDV	Yes
Tested for Cytopathogenic Agents	Yes
Tested for Hemadsorbing Agents	Yes
Tested for Rabies Virus	Yes
Tested for Reovirus	Yes
Certificate of Suitability [Provided or Not]	Included

Additional assays performed (subject to change without notice): Progesterone, Selenium, Insulin, IgG, Sodium, Cholesterol, Potassium, High Density Lipo-Protein Cholesterol, Calcium, Low Density Lipo-Protein Cholesterol, Chloride, Triglycerides,Magnesium, Gamma Globulin, Glucose, Phospholipids, Copper, Alkaline Phosphatase, Total Iron Binding Capacity (TIBC), Lactate Dehydrogenase, Percent Saturation, Glutamic Pyruvic Transaminase (SGPT), Glutamic Oxaloacetic Transaminase (SGOT), Thiamine (B1), Riboflavin (B2), Pyridoxine (B6), Nicotinic Acid (Niacin), Vitamin H (Biotin), Vitamin A (Retinol), Carotene, Total Vitamin E (Tocopherol), Cyanocobalamine (B12), Pteroylglutamic Acid (Folate), VitaminC , 1,25 Dihydroxy Vitamin D, pH, Total Protein, Albumin, Blood Urea Nitrogen, Creatinine, Total Bilirubin, Inorganic Phosphorus, Osmolality and Iron.

Description	Quantity	Mfr. No.	Cat. No.	Each
ES Screened FBS	100mL	SH30070.02E	**SH3007002E**	210.00
Murine Embryonic Stem Cell Screened FBS	500mL	SH30070.03E	**SH3007003E**	802.80
ES Screened, Heat Inactivated	500mL	SH30070.03EH	**SH3007003EH**	811.20

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

HyClone™ FetalClone™ Serum (U.S)

An alternative to FBS designed to deliver cost effectiveness and high performance, plus additional growth factors and supplements offered with Serum II.

Serum Collection:

- From collection to final packaging
- Every step is documented
- Full traceability compliant with current Good Manufacturing Practices (cGMP)

Quick and Reliable Processing:

- Extensive quality, performance, and analytical testing
- Aseptically packaged in a Class 100 cleanroom

Quality Control Testing Standards:

- Each lot of serum is tested to ensure quality and sterility

True Pool Processing:

- Pooled after filtration and before final packaging
- Consistent quality from the first bottle filled to the last
- Increases consistency and minimizes variability with a lot of serum

STORAGE:
Store at ≤ -10°C.

CERTIFICATIONS:
Manufactured under cGMP and ISO 9001 certified facilities.

Specifications	
Endotoxin	≤10EU/mL
Hemoglobin	≤20mg/dl
Sterility: Bacteria & Fungi	No Growth
Virus Testing (9 CFR 113.53) Fluorescent Antibody	
Bluetongue Virus	Not Detected
Bovine Adenovirus	Not Detected
Bovine Parvovirus	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected
Bovine Viral Diarrhea Virus	Not Detected
Rabies Virus	Not Detected
Reovirus	Not Detected
Cytopathogenic Agents	Not Detected
Hemadsorbing Agents	Not Detected
Mycoplasma	
Large Volume, Direct Culture	Not Detected
Hoechst DNA Stain	Not Detected
Certificate of Suitability	Included

Additional assays performed (subject to change without notice): Gamma Globulin, Alkaline Phosphatase, Lactate Dehydrogenase, Glutamic Pyruvic Transaminase (SGPT), Glutamic Oxaloacetic Transaminase (SGOT), pH, Total Protein, Albumin, Blood Urea Nitrogen, Creatinine, Total Bilirubin, Sodium, Potassium, Calcium, Chloride, Inorganic Phosphorus, Osmolality, Iron, Total Iron Binding Capacity (TIBC), Percent Iron Saturation, Glucose and IgG.

Description	Quantity	Mfr. No.	Cat. No.	Each
FetalClone I Serum	500mL	SH30080.03	**SH3008003**	192.00
FetalClone II Serum	100mL	SH30066.02	**SH3006602**	53.80
FetalClone II Serum	500mL	SH30066.03	**SH3006603**	200.40
FetalClone III Serum	500mL	SH30109.03	**SH3010903**	207.60

Corning™ cellgro™ Gamma-Irradiated FBS

Sterile fecal bovine serum for use in vaccine and virus production

Gamma irradiation provides a method for complete viral and mycoplasma deactivation while maintaining the biological activity of the final product.

- Amber yellow to reddish
- Osmolality: 280-340m Osm/kg H_2O
- Viruses not detected: BRSV, BVD, REO Virus Rabies, Blue Tongue, Bovine Parvo, HA, CPE, BVD, Bovine Adeno 3, Bovine Adeno 5

APPLICATIONS: Virus and vaccine production, projects needing a minimized risk of virus and mycoplasma contamination along with very low endotoxin.

STORAGE: -25°C to -15°C.

Qty.	Mfr. No.	Cat. No.	Each
500mL	35-070-CV	**MT35070CV**	400.50

Corning cellgro™ Dialyzed FBS

FBS free from small potential contaminants

Dialyzed against physiological saline

- Additional filtration of 0.1 micron ensures purity
- Sterile
- Can be used in an application which requires a more defined serum or need a low endotoxin concentration
- Amber yellow to reddish

Description	Size	Mfr. No.	Cat. No.	Each
Dialyzed against physiological saline	500mL	35-071-CV	**MT35071CV**	618.50

Mediatech™ Corning cellgro™ Charcoal-Stripped FBS

FBS free from lipophilic compounds and virus particles

- Charcoal-dextran removes lipophilic compounds (hormones, certain growth factors and cytokines) and virus particles
- Amber yellow to reddish
- Soluble in water
- Stable

APPLICATIONS: Immunoassays, hormone-receptor assays

ORDERING INFORMATION: Supplied in frozen form.

STORAGE: Store frozen at -25° to -15°C.

Description	Size	Mfr. No.	Cat. No.	Each
Charcoal-filtered	500mL	35-072-CV	**MT-35-072-CV**	692.00

Corning cellgro™ ES Cell Tested FBS

FBS validated for its ability to support colony formation and proper cell morphology

- Gamma irrradiated
- Sterile-filtered
- Premium quality
- US origin
- ES Cell tested
- Minimal differentiation

APPLICATIONS: Embryonic stem cell research (validated for mouse but suitable for human)

ORDERING INFORMATION: Shipped in frozen form.

STORAGE: Store frozen at -25° to -15°C.

Description	Size	Mfr. No.	Cat. No.	Each
Gamma Irrradiated, sterile-filtered ES cell tested	500mL	35-074-CV	**MT-35-074-CV**	564.50

Corning cellgro™ Tetracycline Negative FBS

Ensures accurate tet-inducible gene expression

- Premium quality–US origin
- Tetracycline negative
- Sterile filtered
- Limit of detection: ~0.1µg/mL

APPLICATIONS: Cell culture applications using tet-inducible gene expression systems, any other application in which the presence of tetracycline would prove disruptive.

ORDERING INFORMATION: Shipped in frozen form.

STORAGE: Store frozen at -25° to -15°C.

NOTES: The tetracycline test is performed either with the ELISA method or bioassay methodology techniques.

Description	Size	Mfr. No.	Cat. No.	Each
Tetracycline negative, sterile-filtered	500mL	35-075-CV	**MT-35-075-CV**	565.50

Corning™ cellgro™ hybrigro SF™

Developed for serum-free growth and antibody production with a variety of hybridoma cell lines

- Superior growth and antibody production over serum supplemented media
- Formulated with glutagro to provide a stable, ready to use formulation; no glutamine supplementation required
- Contains Polaxamer 188 to provide shear force protection during agitated suspension culture
- Formulated without phenol red
- Contains low concentrations of highly purified non-animal origin recombinant proteins added for enhanced cell growth and productivity
- Defined: There are no undefined hydrolysates, ultra filtered lysates or peptides in the formulation

Qty	Mfr. No.	Cat. No.	Pack of 6
6 × 500mL	40-215-CV	**MT40215CV**	298.00

Corning™ cellgro Fetal Bovine Serum

Used as a supplement to cell culture media to help sustain growth and metabolism

- Sera is aseptically collected and processed in a facility that is compliant with FDA guidelines for Class I Medical Devices
- Each batch of raw serum is screened for endotoxin, residual hemoglobin concentration, pH and microbiological quality before being used in production
- Each lot is 0.1µm triple-filtered, low in endotoxin, and is final tested for the absence of mycoplasma and viruses

MT-35-015-CV

- Premium FBS is sourced from U.S. herds
- Heat-inactivated Fetal Bovine Serum (FBS) is heated at 56°C for 30 minutes

COMPLIANCE:
USDA Certified FBS is sourced from USDA-certified facilities (abbatoirs).

Description	Quantity	Mfr. No.	Cat. No.	Each
Regular, Heat-Inactivated	500mL	35-011-CV	**MT-35-011-CV**	312.50
Premium	500mL	35 015 CV	**MT-35-015-CV**	415.00

Buffers and Balanced Salt Solutions

PBS, 10X Powder Concentrate (White Granular Powder), Fisher BioReagents™

APPLICATIONS:
This product provides a convenient way to make a 10X concentrated solution of standard Phosphate Buffer; each pack contains 98.8g for reconstitution in 1L of water.

Quantity	Packaging	Cat. No.	Each
2 × 1L	Foil Pack	**BP665-1**	67.70

PBS, 1X Powder Concentrate (White Granular Powder), Fisher BioReagents™

APPLICATIONS:
This product provides a convenient way to make large volumes of standard 1X Phosphate Buffer; each bottle contains 98.9g or 492g for reconstitution in 10L or 50L of water, respectively.

Quantity	Packaging	Cat. No.	Each
10L	Poly Bottle	**BP661-10**	60.80
50L	Poly Bottle	**BP661-50**	160.20

PBS, 1X Solution, Fisher BioReagents™

APPLICATIONS:
A standard phosphate buffer used in many biomolecular procedures.

Quantity	Packaging	Cat. No.	Each
4L	Poly CUBE	**BP2438-4**	132.70
20L	Poly CUBE	**BP2438-20**	354.00

Phosphate Buffered Saline, 10X Solution, Fisher BioReagents™

APPLICATIONS:
A concentrated, standard phosphate buffer solution.

Quantity	Packaging	Cat. No.	Price
500mL	Poly Bottle	**BP399-500**	Ea./41.90 Cs. of 6/200.50
1L	Nalgene Poly Bottle	**BP399-1**	Ea./74.60 Cs. of 6/359.50
4L	Poly CUBE	**BP3994**	Ea./162.60
20L	Poly CUBE	**BP399-20**	Ea./505.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

HyClone™ Dulbecco's Phosphate Buffered Saline, Powder

Fully QC tested

Quality dry powdered Dulbecco's Phosphate Buffered Saline (DBPS) is offered in easy to use powder form.

Ease of use:

- Formulated and processed for rapid dissolution
- Pre-weighed powders ready for hydration to 1X
- Available in 3 in. ported funnel-shaped containers upon request

Quality:

- Certificate of Analysis included with product and available electronically for future reference

STORAGE: Store at 2° to 8°C.

CERTIFICATIONS: Manufactured under cGMP and ISO 9001 certified facilities

Specifications	
Appearance	White to Off-White Powder
Solubility at 1X	Clear Solution
Moisture	≤ 2.00%
pH at 1X	6.9 - 7.9
Osmolality at 1X	265 - 295 mOsm/kg
Endotoxin at 1X	≤1.0 EU/mL
Cytotoxicity at 1X	Non-Toxic

Description	Enough For	Containers	Mfr. No.	Cat. No.	Each
DPBS Without Calcium or Magnesium (Powder)	2 × 5L	Bottle	SH30013.02	**SH3001302**	22.09
DPBS Without Calcium or Magnesium (Powder)	1 × 10L	Bottle	SH30013.03	**SH3001303**	17.76
DPBS Without Calcium or Magnesium (Powder)	1 × 50L	Bottle	SH30013.04	**SH3001304**	50.16

HyClone™ Dulbecco's Phosphate Buffered Saline, Solution

Fully QC-tested solutions

Quality DPBS solutions in the concentrations and volumes to meet your needs. Available with or without calcium and magnesium dependent on your Trypsin inhibition requirements.

Quality:

- Certificate of Analysis included with product and available electronically for future reference

Reliability:

- Redundant manufacturing sites
- Standard stock items from 100mL to 200L

Flexibility:

- Volumes up to 1000L available as made to order
- Available in 1X and 10X concentrations to meet your specific needs
- Customized packaging available

STORAGE: Store at 15° to 30°C.

CERTIFICATIONS:
Manufactured under cGMP and ISO 9001 certified facilities.

Specifications				
Appearance	Clear Solution	Clear Solution	Clear Solution	Clear Solution
pH	7.0-7.2	7.0-7.2	6.7-6.9 @10X	4.1-4.7 @10X
Osmolality	265-295 mOsm/kg	260-305 mOsm/kg	265-295 mOsm/kg @1X	245-305 mOsm/kg @1X
Sterility	No Growth	No Growth	No Growth	No Growth
Endotoxin	≤1.0 EU/mL	≤1.0 EU/mL	≤1.0 EU/mL	≤1.0 EU/mL
Cytotoxicity	Non toxic	Non toxic	Non toxic @ 1X	Non toxic @ 1X
Cat. No.	SH30028	SH30264	SH30378	SH30597

Description	Concentration	Fluid Containment	Quantity	Mfr. No.	Cat. No.	Each
Volumes for Lab-Scale						
DPBS without Calcium, Magnesium, and Phenol Red	1X	PETE Bottle	500 mL	SH30028.02	**SH3002802**	15.00
DPBS without Calcium, Magnesium, and Phenol Red	1X	PETE Bottle	6 × 500 mL	SH30028.FS	**SH30028FS**	87.00
Without Calcium, Magnesium, Phenol Red	1X	PETE Bottle	1000 mL	SH30028.03	**SH3002803**	24.00
Without Calcium, Magnesium, Phenol Red	1X	PETE Bottle	6 × 1000 mL	SH30028.LS	**SH30028LS**	139.50
With Calcium, Magnesium, without Phenol Red	1X	PETE Bottle	500 mL	SH30264.01	**SH3026401**	14.28
With Calcium, Magnesium, without Phenol Red	1X	PETE Bottle	6 × 500 mL	SH30264.FS	**SH30264FS**	82.82
With Calcium, Magnesium, without Phenol Red	1X	PETE Bottle	1000 mL	SH30264.02	**SH3026402**	22.85
Without Calcium, Magnesium, Phenol Red	10X	PETE Bottle	500 mL	SH30378.02	**SH3037802**	28.56
Without Calcium, Magnesium, Phenol Red	10X	PETE Bottle	1000 mL	SH30378.03	**SH3037803**	45.70
Volumes for Bioprocessing						
Without Calcium, Magnesium, Phenol Red	1X	Bioprocess Container Bag	10 L	SH30028.08	**SH3002808**	220.58

HyClone™ Hanks' Balanced Salt Solutions

Available in liquid form in lot sizes that facilitate scale-up and manufacturing

- Manufactured under cGMP and ISO 9001:2000 guidelines
- All formulations incorporate a rigorous specification and approval process

ORDERING INFORMATION: Products with the LS and FS extension are supplied in convenient HyQPAK™ six-packs.

Description	Quantity	Mfr. No.	Cat. No.	Price
With Calcium, Magnesium and Phenol Red	500mL	SH30030.02	**SH3003002**	15.24
	1000mL	SH30030.03	**SH3003003**	24.36
Without Calcium, without Magnesium, with Phenol Red	6 × 500mL	SH30031.FS	**SH30031FS**	94.07
	500mL	SH30031.02	**SH3003102**	16.22
	1000mL	SH30031.03	**SH3003103**	25.95
With Calcium, with Magnesium, without Phenol Red	500ml	SH30268.01	**SH3026801**	15.36
	1000mL	SH30268.02	**SH3026802**	24.58
	6 × 1000mL	SH30268.LS	**SH30268LS**	142.85
Without Calcium, without Magnesium, without Phenol Red	500mL	SH30588.01	**SH3058801**	15.36
	1L	SH30588.02	**SH3058802**	24.48

HyClone™ Phosphate Buffered Saline (PBS)

Fully QC-tested solutions

- Manufactured according to cGMP guidelines and with ISO 9001:2000-certified processes
- Full traceability and documented origin of all formula ingredients
- Validated and consistent production processes

ORDERING INFORMATION:
HyClone customizes and optimizes formulations and delivery systems to meet individual requirements, and manufactures homogenous liquid lots up to 10,000L and dry powdered lots up to 250,000L. Most products are available in both liquid and powdered forms.

Description	Quantity	Mfr. No.	Cat. No.	Each
1X, 0.0067M PO_4, w/o Calcium, Magnesium, Phenol Red	500mL	SH30256.01	**SH3025601**	15.12
	500mL	SH30256.FS	**SH30256FS**	87.70
	1000mL	SH30256.02	**SH3025602**	24.19
	6 × 1000mL[1]	SH30256.LS	**SH30256LS**	140.62
10X, 0.067M PO_4, w/o Calcium, Magnesium, Phenol Red	500mL	SH30258.01	**SH3025801**	28.56
	1000mL	SH30258.02	**SH3025802**	45.70

HyClone™ HEPES Buffer, Solution

Better at maintaining physiological pH despite changes in carbon dioxide concentration (produced by cellular respiration) when compared to bicarbonate buffers

- Part of a high-performance line of nutritional and growth supplements

STORAGE: Store at 2° to 8°C.

COMPLIANCE: Manufactured under cGMP and ISO 9001:2000 guidelines.

Description	Quantity	Mfr. No.	Cat. No.	Each
HEPES 1M Solution	100mL	SH30237.01	**SH3023701**	50.04

HyClone™ Sodium Bicarbonate

Fully QC-tested solutions

- Full traceability and documented origin of all formula ingredients
- Validated and consistent production processes

COMPLIANCE:
Manufactured according to cGMP guidelines and with ISO 9001:2000-certified processes.

Description	Quantity	Cat. No.	Each
Sodium Bicarbonate Solution (100mM)			
With 75.0g/Sodium Bicarbonate	100mL	**SH3003301**	12.96

Corning™ cellgro™ Balanced Salt Solutions

Salt solutions are shipped at ambient temperature unless otherwise indicated

STORAGE:

Store as detailed on label.

NOTES:
pH of 10X solutions must be adjusted following dilution to 1X concentration.

Description	Size	Cat. No.	Price
Hanks' Balanced Salt Solution 10X			
Without Bicarbonate, Calcium and Magnesium; with Phenol Red	6 × 500mL	**MT-20-021-CV**	224.50
Hanks' Balanced Salt Solution 1X			
Complete Solution	6 × 500mL	**MT-21-020-CV**	105.50
	6 × 1L	**MT-21-020-CM**	176.90
Without Calcium and Magnesium	6 × 500mL	**MT-21-021-CV**	119.20
	6 × 1L	**MT-21-021-CM**	186.30
Without Calcium, Magnesium and Phenol Red	6 × 500mL	**MT-21-022-CV**	124.80
	6 × 1L	**MT-21-022-CM**	187.40
Without Phenol Red	6 × 500mL	**MT-21-023-CV**	119.30
	6 × 1L	**MT-21-023-CM**	177.80
Powder; without Calcium, Magnesium, Phenol Red and Bicarbonate	1 × 10L	**MT-55-022-PB**	58.50
Powder; without Calcium, Magnesium and Bicarbonate	1 × 10L	**MT-55-021-PB**	58.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ cellgro™ Cell Culture Buffers and Buffered Salines

With low endotoxin content

- Maintains cell culture media in the physiological pH range
- Maintains cell tonicity and viability
- Produced under the highest industry standards to ensure superior results
- Non toxic

MT-21-031-CM

Description	Quantity	Cat. No.	Pack of 6†
Dulbecco's Phosphate-Buffered Salt Solution 10X			
Complete Solution	6 × 500mL	**MT-20-030-CV**	206.50
Without Calcium and Magnesium	6 × 500mL	**MT-20-031-CV**	177.00
Dulbecco's Phosphate-Buffered Salt Solution 1X			
Complete Solution	6 × 500mL	**MT-21-030-CV**	113.80
	6 × 1L	**MT-21-030-CM**	175.20
Without calcium and magnesium	6 × 500mL	**MT-21-031-CV**	103.70
	6 × 1L	**MT-21-031-CM**	174.60
	20L	**MT-21-031-LB**	558.00
	10L	**MT-21-031-LX**	375.00
	12 × 1L	**MT-21-040-CMX**	288.00
Powder; without Calcium and Magnesium	10L	**MT-55-031-PB**	42.90
	50L	**MT-55-031-PC**	65.10
Phosphate Buffered Saline (1X)			
Without Calcium and Magnesium†	6 × 500mL	**MT-21-040-CV**	94.20
	6 × 1L	**MT-21-040-CM**	156.90
10X PBS			
Without Calcium and Magnesium	6 × 1L	**MT-46-013-CM**	255.00
Tris-buffered Saline, 10X			
Without Calcium and Magnesium	6 × 1L	**MT-46-012-CM** †	305.42

†Store as detailed on label.

HyClone™ HyQTase™ Cell Detachment Reagent

A non-mammalian trypsin alternative to disaggregate adherent cells from the surface or substrate to which they are attached.

- Ultra-filtered, nonmammalian alternative to trypsin that enables gentle, rapid cell detachment of a broad array of adherent cells and tissues for primary cell culture
- Naturally derived complex of proteolytic and collagenolytic enzymes
- Ideal for use in both serum-free and serum-containing cell culture systems with a broad array of cell lines

Trypsin and HyQTase dissociation reagents

STORAGE:
Store frozen; stable for up to 60 days at 4°C.

Description	Quantity	Mfr. No.	Cat. No.	Each
HyQTase Cell Detachment Solution, in DPBS with EDTA (non-mammalian)	100mL	SV30030.01	**SV3003001**	42.24

Lonza BioWhittaker™ Buffers and Buffered Salines

Manufactured in accordance with cGMP regulations and cell culture-tested to assure compatibility

STORAGE:
Store as detailed on label.

Quantity	Mfr. No.	Cat. No.	Each
Ack lysing Buffer			
100mL	10 548E	**BW10-548E**	23.55
DPBS (1X) w/Calcium and Magnesium			
500mL	17-513F	**BW17-513F**	17.27
DPBS (1X) w/o Calcium and Magnesium			
500mL	17-512F	**BW17-512F**	18.08
1L	17-512Q	**BW17-512Q**	35.70
12 × 500mL	17-512F/12	**BW17-512F12**	184.80
24 × 500mL	17-512F/24	**BW17-512F24**	333.00
12 × 1L	17-512Q/12	**BW17-512Q12**	322.00
DPBS (10X) w/o Calcium and Magnesium			
500mL	17-515F	**BW17-515F**	30.60
1L	17-515Q	**BW17-515Q**	46.50
HEPES Buffer, 1M in Normal Saline			
100mL	17-737E	**BW17-737E**	65.60
PBS (1X) w/o Calcium and Magnesium			
500mL	17-516F	**BW17-516F**	20.75
1L	17-516Q	**BW17-516Q**	26.15
12 × 500mL	17-516F/12	**BW17-516F12**	194.40
24 × 500mL	17-516F/24	**BW17-516F24**	361.00
12 × 1L	17-516Q/12	**BW17-516Q12**	296.50
PBS (10X) w/o Calcium and Magnesium			
1L	17-517Q	**BW17-517Q**	29.25

HyClone™ Trypsin

Used to disaggregate adherent cells from the surface or substrate to which they are attached

Highlights:

- Derived from porcine pancreas
- Gamma irradiated prior to hydration and filling
- Formulated without calcium and magnesium

STORAGE: Store frozen (-5° to -20°C).

Description	Quantity	Mfr. No.	Cat. No.	Each
Trypsin, 0.05% 1X, with 0.5g porcine trypsin (1:250/L gamma irradiated) in HBSS with 0.2g/L EDTA, without calcium, magnesium (liquid)	100ml	SH30236.0	**SH3023601**	19.20
	500mL	SH30236.02	**SH3023602**	40.08
Trypsin, 0.25% 1X, with 2.5g porcine trypsin (1:250/L gamma irradiated) in HBSS with 0.2g/L EDTA, without calcium, magnesium (liquid)	100ml	SH30042.01	**SH3004201**	14.52
Trypsin, 0.25% 1X, with 2.5g porcine trypsin (1:250/L gamma irradiated) in HBSS with 1g/L EDTA, without calcium, magnesium (liquid)	100mL	SV30031.01	**SV3003101**	21.84
Trypsin 2.5% 10X Solution, with 25.0 g Porcine Trypsin (1:250/L) in HBSS, without Calcium and Magnesium, without EDTA or Phenol Red	100mL	SV30037.01	**SV3003701**	38.16

Cell Dissociation Reagents

Corning™ cellgro™ Cell Separation Products

Serum-free media features low protein concentration without hormones, growth, or attachment factors

ORDERING INFORMATION:
Packaged in PET bottles.

STORAGE:
Store at 15° to 30°C (59° to 86°F).

Description	Quantity	Cat. No.	Each
Lymphocyte Separation Medium			
Density = 1.077g/mL (±0.002g/mL)	100mL	**MT-25-072-CI**	44.75
	500mL	**MT-25-072-CV**	166.70
Polysucrose Powder			
Generic form of Ficoll™ 400	500g	**MT-61-196-RO**	719.00

Corning™ cellgro™ Enzymatic Dissociation Reagents

All products are tested for porcine parvovirus

Description	Size	Mfr No.	Cat. No.	Each
0.25% Trypsin in HBSS w/o Calcium and Magnesium	6 × 100mL	25050CI	**MT-25-050-CI**	72.70
0.05% Trypsin/0.53mM EDTA in HBSS w/o Calcium, Magnesium or Sodium Bicarbonate	6 × 100mL	25 052 CI	**MT-25-052-CI**	71.40
0.05% Trypsin/0.53mM EDTA in HBSS without Calcium, Magnesium or Sodium Bicarbonate	6 × 500mL	25 052 CV	**MT-25-052-CV**	239.50
0.25% Trypsin, 0.1% EDTA in HBSS w/o Calcium, Magnesium and Sodium Bicarbonate	6 × 100mL	25-053-CI	**MT-25-053-CI**	71.30
2.5% Trypsin in HBSS w/o Calcium, Magnesium and Phenol Red	6 × 100mL	25054CI	**MT-25-054-CI**	188.90
0.05% Trypsin/0.53mM EDTA in HBSS w/o Calcium and Magnesium	6 × 100mL	25 051CI	**MT-25-051-CI**	71.80

Corning™ cellgro™ CellStripper™ Dissociation Reagent

Non-enzymatic cell dissociation solution gently dislodges adherent cells in culture

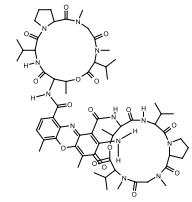
Designed to be an alternative to trypsin when used in conjunction with serum-free or serum-containing media.

- Formulated with a proprietary mixture of chelators
- Reduces the risk of cell damage associated with protein digestive enzymes

Quantity	Mfr. No.	Cat. No.	Pack of 6
100mL	25056CI	**MT-25-056CI**	105.20

Media Additives - Antibiotics

Actinomycin D (Red Crystals), Fisher BioReagents™

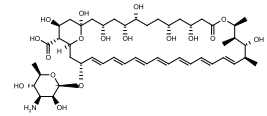


APPLICATIONS:
This antibiotic is a widely used transcription inhibitor.

BP606-5

Quantity	Packaging	Cat. No.	Each
5mg	Poly Micro Tube	**BP606-5**	126.60
10mg	Poly Micro Tube	**BP606-10**	198.39

Amphotericin B (Yellow Powder), Fisher BioReagents™



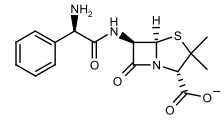
APPLICATIONS:
Amphotericin B is an antibiotic used for controlling microbial contamination in tissue culture applications.

BP928-250

Quantity	Cat. No.	Each
250mg	**BP928-250**	101.20

Ampicillin Sodium Salt (Crystalline Powder), Fisher BioReagents™

APPLICATIONS: For selection for ampicillin resistance in mutated and transformed cells. Antimicrobial spectrum: Gram-negative and Gram-positive bacteria.



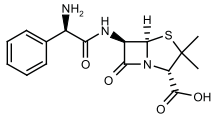
BP1760-5

Quantity	Packaging	Cat. No.	Each
5g	Poly Bottle	**BP1760-5**	70.60
25g	Poly Bottle	**BP1760-25**	97.40

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

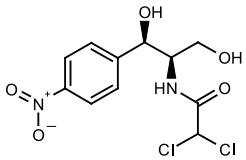
Ampicillin Trihydrate (Off-white Powder), Fisher BioReagents™



BP902-25

Quantity	Packaging	Cat. No.	Each
25g	Poly Bottle	**BP902-25**	103.40

Chloramphenicol (Crystalline Powder), Fisher BioReagents™

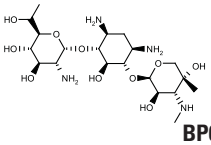


BP904-100

APPLICATIONS:
Used as a seletion agent for transformed cells containing chloramphenicol resistance genes. Mode of Action: Inhibits translation on the 50S ribosomal subunit at the peptidyltransferase step (elongation inhibition).

Quantity	Packaging	Cat. No.	Price
100g	Poly Bottle	**BP904-100**	Ea./189.70 Cs. of 6/986.00

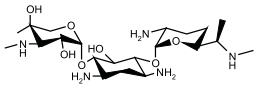
G418 Sulfate (White to Off-White Powder), Fisher BioReagents™



BP673-5

Quantity	Packaging	Cat. No.	Each
1g	Amber Glass	**BP673-1**	162.70
5g	Amber Glass	**BP673-5**	574.50

Gentamycin Sulfate (White Powder), Fisher BioReagents™

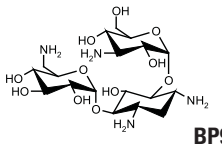


BP918-1

APPLICATIONS:
Gentamycin Sulfate inhibits protein synthesis, preventing microbial contamination in tissue culture applications. It is also used to confer antibiotic resistance/sensitivity in molecular biology procedures.

Quantity	Packaging	Cat. No.	Each
1g	Amber Glass	**BP918-1**	113.50

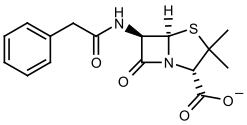
Kanamycin Sulfate (White Powder), Fisher BioReagents™



BP906-5

Quantity	Packaging	Cat. No.	Each
5g	Poly Bottle	**BP906-5**	70.70

Penicillin-G Potassium Salt, Fisher BioReagents™

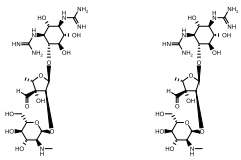


BP914-100

APPLICATIONS:
Penicillin inhibits microbial contamination in tissue culture applications.

Quantity	Packaging	Cat. No.	Each
100g	Poly Bottle	**BP914-100**	101.90

Streptomycin Sulfate, Fisher BioReagents™

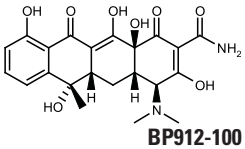


BP910-50

APPLICATIONS:
Streptomycin Sulfate inhibits protein synthesis. It prevents microbial contamination in tissue culture applications and confers antibiotic resistance/sensitivity in molecular biology procedures.

Quantity	Packaging	Cat. No.	Each
50g	Poly Bottle	**BP910-50**	69.80

Tetracycline Hydrochloride, Fisher BioReagents™



BP912-100

APPLICATIONS:
Tetracycline blocks protein synthesis and is used to select tetracycline-resistant recombinant plasmids.

Quantity	Packaging	Cat. No.	Each
100g	Poly Bottle	**BP912-100**	125.90

HyClone™ Amphotericin B (Fungizone) Solution

A full range of products are available to control/destroy destructive microorganisms, such as fungi

- An antibiotic agent that is active against fungi
- Used as an antifungal, anti-yeast and anti-mold agent
- Interferes with the permeability of the cell membrane of sensitive fungi by binding sterols
- Common working concentration is 2.5µg/mL and it is cytotoxic at 30µg/mL

SV300 Series

Description	Quantity	Mfr. No.	Cat. No.	Each
Amphotericin B (Fungizone) Solution, 250µg/mL	50mL	SV30078.01	**SV3007801**	36.24

HyClone™ Antibiotic Antimycotic Solution

Antibiotics to control/destroy destructive microorganisms, such as bacteria, fungi and yeast

- Contains 10,000 units of penicillin, 10,000µg of streptomycin and 25µg of Amphotericin B per mL
- Wide spectrum of activity against gram negative and gram positive bacteria as well as activity against fungi and yeast
- Commonly used as an anti-fungal, anti-yeast, anti-mold or antibacterial
- Common working dose is 10mL/L of 100X solution

Description	Quantity	Mfr. No.	Cat. No.	Each
Antibiotic Antimycotic Solution (Pen/Strep/ Fungizone), 100X	100mL	SV30079.01	**SV3007901**	46.80

HyClone™ G418 Sulfate

Antibiotics to control/destroy destructive microorganisms

- Aminoglycoside used as a selective agent of transfected mammalian, yeast, plant and bacteria cells
- G418 Related to Gentamycin
- Interferes with the function of 80S ribosomes and protein synthesis in eukaryotic cells. Resistance is conferred by the bacterial gene for aminoglycoside-3'-phosphotransferase that can be expressed in eukaryotic cells
- Common working concentration for G418 is 300 to 1000µg/mL

Description	Quantity	Mfr. No.	Cat. No.	Each
G418 Sulfate, > 90% Purity	5g	SV30068.02	**SV3006802**	530.40
G418 Sulfate Solution, 50mg/mL	20mL	SV30069.01	**SV3006901**	186.00

HyClone™ Gentamicin Solution

Antiobiotics to control/destroy destructive microorganisms, such as bacteria and mycoplasma

- Broad spectrum cell culture antibiotic that is nontoxic to viruses and mammalian cells at antibacterial levels
- Active against gram positive gram negative bacteria and Mycoplasma and is useful for long-term virus and tissue culture studies
- Used as an antibacterial or antimycobacterial
- Interferes with bacterial protein synthesis by binding to L6 protein of 50S ribosomal subunit
- Common working concentration is 5µg/mL
- Cytotoxic at >300µg/mL

Description	Quantity	Mfr. No.	Cat. No.	Each
Gentamicin Solution, 50mg/mL	1 × 10mL	SV30080.01EA	**SV3008001EA**	53.76
Gentamicin Solution, 50mg/mL	10 × 10mL	SV30080.01	**SV3008001**	537.60

HyClone™ Hygromycin B

Antibiotics to control/destroy destructive microorganisms, such as bacteria, fungi and higher eukaryotic cells

- Aminoglycosidic antibiotic that kills bacteria, fungi and higher eukaryotic cells by inhibiting protein synthesis
- Resistance gene codes for a kinase that inactivates Hygromycin B through phosphorylation
- Cloning of the resistance gene and fusion with eukaryotic promoters has resulted in the development of vectors that permit selection for resistance to Hygromycin B in both prokaryotic and eukaryotic cells
- Useful as an antifungal or antibacterial; inhibits protein synthesis by disrupting translocation and promoting mistranslation of the 80S ribosome
- Used for the selection and maintenance of prokaryotic and eukaryotic cells transfected with the hygromycin resistance gene, hph
- Working concentration for mammalian cell selection is normally between 50µg/mL and 1mg/mL; for plant cells: 20 to 200µg/mL, for bacteria: 20 to 200µg/mL, and for fungi: 200µg to 1mg/mL

Description	Quantity	Mfr. No.	Cat. No.	Each
Hygromycin B Solution, 50mg/mL	20mL	SV30070.01	**SV3007001**	270.00

HyClone™ Pen/Strep/ Glutamine Solution

Antibiotics to control/destroy destructive microorganisms, such as bacteria

Penicillin/Streptomycin is a broad spectrum bacteriostatic with activity against gram negative and gram positive organisms. It is used as an antibacterial or antimycobacterial. Penicillin interferes with the final stage of synthesis of the bacterial cell wall. Streptomycin inhibits elongation at transpeptidation step during protein synthesis and binds to 30S subunit, causing misreading.

- Common working concentration for penicillin is 100U/mL; for Streptomycin: 100µg/mL.

Description	Quantity	Mfr. No.	Cat. No.	Each
Pen/Strep/Glutamine Solution	100mL	SV30082.01	**SV3008201**	23.52

HyClone™ Penicillin-Streptomycin Solution

Antobiotics to control/destroy destructive microorganisms, such as bacteria

- Broad spectrum bacteriostatic with activity against gram negative and gram positive organisms
- Used as an antibacterial or antimycobacterial
- Penicillin interferes with the final stage of synthesis of the bacterial cell wall
- Streptomycin, through protein synthesis, inhibits elongation at transpeptidation step; binds to 30S subunit causing misreading
- Common working concentration for Penicillin is 100U/mL; for Streptomycin: 100µg/mL

Description	Quantity	Mfr. No.	Cat. No.	Each
10,000U/mL Penicillin, 10,000µg/mL Streptomycin in 0.85% NaCl	100ml	SV30010	**SV30010**	21.60

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ cellgro™ Antibiotics and Antimycotics

Packaged in plastic bottles

Description	Size	Mfr. No.	Cat. No.	Each
Penicillin-Streptomycin, 50X	6 × 100mL	30-001-CI	**MT-30-001-CI**	106.60
Penicillin-Streptomycin, 100X	6 × 100mL	30-002-CI	**MT-30-002-CI**	126.80
Antibiotic-Antimycotic Solution	6 × 100mL	30-004-CI	**MT-30-004-CI**	221.00
Gentamicin Sulfate, Liquid	10 × 10mL	30-005-CR	**MT-30-005-CR**	527.50
G418 Sulfate, Liquid	20mL	30-234-CR	**MT-30-234-CR**	166.90
G418 Sulfate, Liquid	100mL	30-234-CI	**MT-30-234-CI**	598.00
Hygromycin B Solution	20mL	30-240-CR	**MT-30-240-CR**	221.00
Streptomycin Sulfate, Powder	100g	61-088-RM	**MT-61-088-RM**	92.80
Gentamicin Sulfate, Powder	100mg	61-098-RA	**MT-61-098-RA**	75.30
Kanamycin Sulfate, Powder	5g	61-176-RG	**MT-61-176-RG**	254.50
G418 Sulfate, Powder	5g	61-234-RG	**MT-61-234-RG**	484.96
G418 Sulfate, Powder	50g	61-234-RK	**MT-61-234-RK**	3950.00
Ampicillin, Sodium Salt, Powder	10g	61-238-RH	**MT-61-238-RH**	92.67

Description	Size	Mfr. No.	Cat. No.	Each
AntibioticAmpicillin, Sodium Salt, Powder	100g	61-238-RM	**MT-61-238-RM**	335.83
Chloramphenicol, Powder	25g	61-239-RI	**MT-61-239-RI**	97.90
Neomycin Sulfate, Powder	5g	61-241-RG	**MT-61-241-RG**	58.60
Neomycin Sulfate, Powder	100g	61-241-RM	**MT-61-241-RM**	256.99
Tetracycline Hydrocholoride, Powder	5g	61-242-RG	**MT-61-242-RG**	68.40
Ciprofloxacin Hydrochloride, Powder	5g	61-277-RG	**MT-61-277-RG**	594.00
Puromycn Dihydrchlrde, Powder	100mg	61-385-RA	**MT-61-385-RA**	232.50
Penicillin-Streptomycin-L-Glutamine, 100X	6 × 100mL	30-009-CI	**MT-30-009-CI**	198.10
Kanamycin Sulfate, Liquid	6 × 50mL	30-006-CF	**MT-30-006-CF**	141.21
Amphotericin B, Liquid	6 × 50mL	30-003-CF	**MT-30-003-CF**	145.90

Media Additives - Supplements

Corning™ cellgro™ Cell Culture Supplements

Incorporates many principles developed by the pharmaceutical industry including the use of WFI quality water, raw material testing, in-process monitoring and finished product testing.

MT-25-060-CI

- HAT = Hypoxanthine/Aminopterin/Thymidine
- HT = Hypoxanthine/Thymidine
- Trace Elements A includes Cupric Sulfate, Ferric Citrate, Sodium Selenite and Zinc Sulfate
- Trace Elements B includes Ammonium Molybdate, Ammonium Vanadate, Manganese Sulfate, Nickel Sulfate, Sodium Silicate, Stannous Chloride and Hydrochloric Acid
- Trace Elements C includes Aluminum Chloride, Barium Acetate, Cadmium Chloride, Chromic Chloride, Cobalt Dichloride, Germanium Dioxide, Potassium Bromide, Potassium Iodide, Rubidium Chloride, Silver Nitrate, Sodium Fluoride and Zirconyl Chloride

Description	Quantity	Cat. No.	Each
L-Glutamine			
200mM Solution (29.2mg/mL)[3]	6 × 100mL	**MT-25-005-CI**	148.60
	6 × 500mL	**MT-25-005-CV**	552.50
Powder; MW 146.15[1]	100g	**MT-61-030-RM**	126.70
	500g	**MT-61-030-RO**	320.00
L-Alanyl-L-Glutamine			
200mM Solution	100mL	**MT25015CI**	42.00
HAT Solution 50X[4]	100mL	**MT-25-046-CI**	67.00
HT Solution, 50X[1]	100mL	**MT-25-047-CI**	20.60
HEPES, Free Acid			
1M Solution (238.3mg/L)	6 × 100mL	**MT-25-060-CI**	368.50
Powder; MW 238.31	100g	**MT-61-034-RM**	119.90
	500g	**MT-61-034-RO**	223.50
	1kg	**MT-61-034-RR**	564.50
Insulin-Transferrin Sodium Selenite (ITS) 100X Solution	10mL	**MT-25-800-CR**	54.50

Description	Quantity	Cat. No.	Each
MEM Amino Acids (50X)[3]			
Without L-Glutamine	6 × 100mL	**MT-25-030-CI**	127.50
MEM Nonessential Amino Acid Solution (100X)	6 × 100mL	**MT-25-025-CI**	111.60
MEM Vitamin Mixture (100X)	6 × 100mL	**MT-25-020-CI**	102.40
MEM Amino Acids (50X)[3]			
Sodium Bicarbonate			
7.5% (w/v) Aqueous Solution[1]	6 × 100mL	**MT-25-035-CI**	75.50
Powder; MW 84.01	500g	**MT-61-065-RO** [7]	90.00
	1kg	**MT-61-065-RR** [7]	225.50
Sodium Chloride			
Sodium Pyruvate 100mM Solution[1]	6 × 100mL	**MT-25-000-CI**	61.40
Trace Elements, 1000x			
Trace Elements B	100mL	**MT-99-175-CI**	55.70
Trace Elements A	100mL	**MT-99-182-CI**	55.50
Tris Base Powder			
Powder MW 121.14	1kg	**MT-61-233-RR**	222.00
Trypan Blue Solution			
0.4% (w/v) in normal saline[2]	100mL	**MT-25-900-CI**	21.60
DMSO			
For cryopreservation	250mL	**MT-25-950-CQC**	102.10
EDTA			
pH 8.0	100mL	**MT-46-034-CI**	51.10

[1]Shipped at ambient temperature; store at 2° to 8°C (36° to 46°F).
[2]Shipped at ambient temperature; store at 15° to 30°C (59° to 86°F).
[3]Shipped frozen; store at -5° to -20°C (+23° to -4°F).
[4]In plastic bottle.
[5]Tested for Porcine Parvovirus.
[6]Shipped refrigerated; store at 2° to 30°C (36° to 86°F).
[7]Shipped and stored at ambient temperature.

Corning™ ITS Premix Universal Culture Supplement

Stimulates proliferation of a variety of cells under serum-reduced conditions

- Universal culture supplement containing insulin, human transferrin and selenous acid
- Tested for ability to promote growth of HeLa cells in serum-free media
- Filtered (0.2µm); tested and found negative for the presence of bacteria, fungi and mycoplasmas

Description	Quantity	Reconstituted Quantity	Mfr. No.	Cat. No.	Each
ITS Premix	5mL	5L	354351	**CB-40351**	117.40
	20mL	20L	354350	**CB-40350**	342.28
ITS+ Premix	20mL	2L	354352	**CB-40352**	89.86

Corning™ Cell Growth Supplements (ECGS)

Ideal for endothelial cell culture

Quantity	Mfr. No.	Cat. No.	Each
15mg	354006	**CB-40006**	92.60
100mg	356006	**CB-40006B**	288.00

Corning™ Collagen I, Human

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation or as a gel to promote expression of cell-specific morphology and function

- Shown to promote attachment and spreading of HT-1080 human fibrosarcoma cells
- Source: Human placenta
- Electrophoretically homogeneous (SDS-PAGE)
- Formulation: Frozen in 2mM Hcl

STORAGE: -20°C

Description	Mfr. No.	Cat. No.	Price
0.25mg	354243	**CB-40243**	258.50
10mg	354265	**08774550**	240.50

Corning™ Collagen I, Bovine

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation or as a gel to promote expression of cell-specific morphology and function

- Shown to promote attachment and spreading of HT-1080 human fibrosarcoma cells
- Source: Bovine dermis
- Purity: >95% by SDS-PAGE
- Formulation: Liquid in 0.012 N HCl

STORAGE:
2 to 8°C

Mfr. No.	Cat. No.	Price
354231	**CB-40231**	122.30

Corning™ Collagen IV, Mouse

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation or as a gel to promote expression of cell-specific morphology and function

- Source material tested for HBsAG, for anti-HIV-1 and anti-HIV-2 and anti-HCV virus-1 and virus-2
- Electrophoretically homogeneous (SDS-PAGE)
- Formulation: Frozen in 0.05 M HCl

STORAGE: -70°C

Description	Mfr. No.	Cat. No.	Price
1mg	354233	**CB-40233**	124.90
10mg	356233	**CB-40233B**	1078.00

Corning™ Collagen I, Rat

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation or as a gel to promote expression of cell-specific morphology and function

- Source: Rat tail tendon
- Purity: >90% by SDS-PAGE
- Formulation: Liquid in 0.02 N acetic acid, concentration range 3 to 4mg/mL

STORAGE: 2 to 8°C

Description	Mfr. No.	Cat. No.	Price
100mg	354236	**CB-40236**	188.20
1g	356236	**CB-40236B**	1351.00

Corning™ Collagen II, Human

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation or as a gel to promote expression of cell-specific morphology and function

- Source: Human placenta
- Source material tested for hepatitis B antigen and HIV-1 antibody
- Electrophoretically homogeneous (SDS-PAGE)
- Formulation: Frozen in 10 mM acetic acid

STORAGE: -20°C

Mfr. No.	Cat. No.	Price
354244	**CB-40244**	344.50

Corning™ Collagen IV, Human

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation or as a gel to promote expression of cell-specific morphology and function

- Source: Human placenta
- Source material tested for HBsAG, for anti-HIV-1 and anti-HIV-2, and anti-HCV virus-1 and virus-2
- Electrophoretically homogeneous (SDS-PAGE)
- Formulation: Frozen in 100mm borate buffer pH 8.0

STORAGE: -70°C

Size	Mfr. No.	Cat. No.	Price
0.25mg	354245	**CB-40245**	444.00
500µg	354261	**08774390**	579.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ Collagen II, Bovine

Used as either a thin layer on tissue-culture surfaces to enhance cell attachment and proliferation, or as a gel to promote expression of cell-specific morphology and function

Source: Bovine articular cartilage

- Purity: >95% by SDS-PAGE
- Formulation: Liquid in 15mM acetic acid

STORAGE: -70°C

Mfr. No.	Cat. No.	Price
354257	**CB-40257**	295.50

Corning™ Laminin, Mouse

Promotes cell adhesion, migration, growth and differentiation, including neurite outgrowth

- Source: Engelbreth-Holm-Swarm mouse tumor
- Purity 90% by SDS-PAGE (contains enactin)

Description	Quantity	Mfr. No.	Cat. No.	Each
Laminin	1mg	354232	**CB-40232**	102.67
Ultrapure Laminin	1mg	354239	**CB-40239**	126.00

Corning™ T-Cell Culture Supplement, Rat

Promotes polyclonal activation and IL-2 proliferation of most antigenically sensitized rat or mouse lymphoid T-cells

- Conditioned medium (RPMI 1640) from ConA-stimulated rat splenocyte cultures containing 10% fetal bovine serum and 10mM HEPES
- Medium with ConA supports high-titer HIV production by leukocytes
- Medium without ConA (from washed rat splenocyte cultures) designed for applications that support proliferation of lectin-activated T-cells and single-cell cloning of antigen-specific T-cells from polyclonally activated primary cultures
- Both undergo an appropriate bioassay, are filtered through a 0.2µm membrane and are tested for the absence of bacteria, fungi and Mycoplasma — guaranteeing a high-quality product

ORDERING INFORMATION:
Supplied in 100mL bottles; refrigerate as detailed on label

Description	Max. ConA Content	Mfr. No.	Cat. No.	Each
With ConA	10µg/mL	354115	**CB-40115**	488.50
Without ConA	≤0.5µg/mL	354116	**CB-40116**	827.00

Corning™ Fibronectin, Human

Promotes cellular attachment, spreading and proliferation on tissue-culture surfaces

- Can also be used as an additive to serum-free culture media
- Purity 90% by SDS-PAGE
- Filtered (0.2µm membrane) and tested; found negative for the presence of bacteria, fungi and mycoplasma
- Lyophilized from CAPS buffer containing NaCl and CaCl2, pH 11.0

Quantity	Mfr. No.	Cat. No.	Each
1mg	354008	**CB-40008**	97.30
5mg	356008	**CB-40008A**	346.09
5 × 5mg	356009	**CB-40008B**	1288.00

Fisher BioReagents™ Bovine Serum Albumin, Fraction V, Heat Shock Treated

- Suitable for immunological studies
- CAS: 9048-46-8

Product Specifications	
Assay	(98%
Heavy Metals (as Pb)	≤0.002%
Loss on Drying at 105°C	≤5%
pH (1% Solution in 0.9% NaCl)	7.0 ±0.3
Solubility (0.4g/10mL H_2O)	Clear and haze-free
Sulfated Ash	≤2%

Quantity	Packaging	Cat. No.	Each
100g	Poly Bottle	**BP1600-100**	232.50
1kg	Poly Bottle	**BP1600-1**	1418.00

Fisher BioReagents™ Bovine Serum Albumin, Fraction V, Cold-ethanol Precipitated

- Used as a stabilizer for enzymes or enzymatic reactions, or as a blocker of nonspecific sites
- CAS: 9048-46-8

Product Specifications	
Assay	(98%
Heavy Metals (as Pb)	≤0.002%
Moisture	≤5%
pH (1% Solution in 0.9% NaCl)	7.0 ±0.3
Solubility (0.4g/10mL H_2O)	Clear and haze-free
Sulfated Ash	≤2%

Quantity	Packaging	Cat. No.	Each
100g	Poly Bottle	**BP1605100**	328.50

Fisher BioReagents™ Bovine Serum Albumin (BSA) Microbiological Grade Powder

Purified by a modified cold ethanol procedure

- CAS: 9048-46-8

Product Specifications	
Heavy Metals (as Pb)	≤20ppm
Loss on Drying at 105°C	≤6.0%
pH (1% in 0.15M NaCl)	Inclusive between 6.8 to 7.2
Protein	95.0%
Purity (Albumin)	95.0%
Sulfated Ash	≤6.0%

Packaging	Quantity	Cat. No.	Each
Poly Bottle	100g	**BP9700-100**	357.13

Fisher BioReagents™ Bovine Serum Albumin (BSA) Protease-Free Powder

Purified by a heat shock process

- CAS: 9048-46-8

Product Specifications	
Heavy Metals (as Pb)	≤10ppm
Loss on Drying at 105°C	≤5.0%
pH (1% in 0.15M NaCl)	Inclusive between 6.8 to 7.2
Protein	96%
Purity (Albumin)	98%
Sulfated Ash	≤2.0%

Packaging	Quantity	Cat. No.	Each
Poly Bottle	100g	**BP9703-100**	266.57

Fisher BioReagents™ Bovine Serum Albumin (BSA) Low Endotoxin Powder

Purified by a heat shock process with additional treatments

- CAS: 9048-46-8

Product Specifications	
Endotoxin	≤1.0 EU/mg
Heavy Metals (as Pb)	≤20ppm
Loss on Drying at 105°C	≤5.0%
pH (1% in 0.15M NaCl)	Inclusive between 6.5 to 7.5
Protein	97%
Purity (Albumin)	98%
Sulfated Ash	≤2.0%

Packaging	Quantity	Cat. No.	Each
Poly Bottle	100g	**BP9705-100**	371.00

Fisher BioReagents™ Bovine Serum Albumin (BSA) Fatty Acid-free Powder

Purified by a heat shock process with additional treatments

- CAS: 9048-46-8

Product Specifications	
Free Fatty Acids	≤0.02%
Loss on Drying at 105°C	≤5.0%
pH (1% in 0.15M NaCl)	Inclusive between 6.5 to 7.5
Protein	96.0%
Purity (Albumin)	98%
Sulfated Ash	≤3.0%

Packaging	Quantity	Cat. No.	Each
Poly Bottle	100g	**BP9704-100**	366.92

Fisher BioReagents™ Bovine Serum Albumin (BSA) DNase- and Protease-free Powder

Purified by proprietary heat shock process

- CAS: 9048-46-8

Product Specifications	
Heavy Metals (as Pb)	≤20ppm
Loss on Drying at 105°C	≤5.0%
pH (1% in 0.15M NaCl)	Inclusive between 6.7 to 7.3
Protein	96%
Purity (Albumin)	98%
Sulfated Ash	≤2.0%

Packaging	Quantity	Cat. No.	Each
Poly Bottle	100g	**BP9706-100**	310.42

Media Additives - Water for Cell Culture

HyClone™ Water, Cell Culture Grade

Processed and tested for use in critical applications

Quality:

- Endotoxin free: contains no detectable gram-negative bacteria
- Meets P0.005 EU/mL endotoxin by turbidimetric assay

APPLICATIONS:
Media preparation; Buffer preparation; LAL reagent testing

STORAGE: Store between 2° to 30°C.

CERTIFICATIONS: Manufactured under cGMP and ISO 9001 certified facilities.

Specifications	
Appearance	Clear Liquid
pH	5.0 to 7.0
Sterility	No Growth
Endotoxin	<0.005EU/mL

Description	Quantity	Fluid Containment	Mfr. No.	Cat. No.	Each
Cell Culture Grade Water, Endotoxin Free	500mL	PETE Bottle	SH30529.02	**SH3052902**	12.84
Cell Culture Grade Water, Endotoxin Free	6 × 500mL	PETE Bottle	SH30529.FS	**SH30529FS**	74.47
Cell Culture Grade Water, Endotoxin Free	1000mL	PETE Bottle	SH30529.03	**SH3052903**	20.54
Cell Culture Grade Water, Endotoxin Free	6 × 1000mL	PETE Bottle	SH30529.LS	**SH30529LS**	119.41

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

HyClone™ Water, WFI Quality

Manufactured under ISO 9001 and cGMP guidelines

WFI quality water with the quality and reliability you have come to expect from HyClone products.

Quality:

- Meets stringent USP or EP specifications
- Certificate of Analysis included with product and available electronically for future reference

Specifications	
US Specifications - SH part numbers; tested to USP monograph for Packaged Sterile Purified Water	
Purification Method	Reverse Osmosis/Distillation
Appearance	Clear Liquid
Sterility	Meets requirements of USP <71>
Endotoxin	<0.25EU/mL
Conductivity†	<5µS/cm at 25 ± 1°C
Oxidizable Substances	Not Detected
Particulate Matter	Meets requirements of USP <788>
EU Specifications - CH part numbers; tested to EP monograph for Sterilized Water for Injections	
Purification Method	Reverse Osmosis/Distillation
Appearance	Clear Colorless Liquid
Sterility	Meets requirements of EP (2.6.1) and USP <71>
Endotoxin	<0.25EU/mL
Conductivity†	<1.1µS/cm at 25 ± 1°C
Oxidizable Substances	Not Detected
Particulate Contamination	0.1µ final filtration
Acidity or Alkalinity	Passes EP test for Sterilized Water for Injections
Chlorides	Passes EP test for Sterilized Water for Injections
Nitrates	≤0.2ppm
Sulfates	Passes EP test for Sterilized Water for Injections
Ammonium	≤0.2ppm
Calcium and Magnesium	Passes EP test for Sterilized Water for Injections
Residue on Evaporation	≤0.003%
Total Organic Carbon†	<500ppm

†Tested on water system day of fill

HyClone WFI Quality Water, Bioprocessing Scale

- Bioprocess volumes available in industry leading animal derived component free (ADCF) film

Reliability:

- Redundant manufacturing sites
- Standard stock items from 500mL to 200L

Flexibility:

- Volumes up to 1000L available as made to order
- Customized packaging available

ORDERING INFORMATION:
Volumes over 1L are packaged in bioproces container bag systems. SH30221.LS is supplied in convenient HyQPAK™ six-packs.

STORAGE:
Store between 2° to 30°C.

CERTIFICATIONS:
Manufactured under cGMP and ISO 9001 certified facilities.

Corning™ cellgro™ Water for Cell Culture

Produced under highest industry standards

WFI Quality Water

- Meets the USP testing requirements
- Has applications in cell and tissue culture, cleaning of laboratory glassware and containers, device processing, process validation and purification

Molecular Grade Water

- Ideal for the preparation of reagents, rinsing glassware and plasticware and other molecular biology applications where RNase, DNase and Protease-free water is required
- No toxic agents, including DEPC, are used, eliminating possible interferences with enzymatic reactions
- Perfect for critical molecular biology processes where low endotoxin and the absence of nuclease and protease activity is a must, including: buffer preparation, DNA/RNA purification, DNA sequencing and libraries, recombinant DNA, cloning, gene mapping, Northern blots, Southern blots and Western blots

ORDERING INFORMATION:
Supplied in a plastic bottle except MT-25-055-LB and -LH, which come in flexible media bags.

STORAGE:
Shipped at ambient temperature. Store at ambient temperature.

Description	Quantity	Mfr. No.	Cat. No.	Each
Distilled, Deionized Water				
Meets WFI Quality Standards	6 × 500mL	25055CM	**MT25055CV**	88.40
	6 × 1L	25055CV	**MT25055CM**	132.10
	20L	25055 LB	**MT25055LB**	361.50
	6 × 100mL	MT-25-055-CI	**MT25055CI**	66.50
	1 x 100mL	25-055-LG	**MT25055LG**	854.00
Molecular Biology Grade Water				
DNase, RNase, and Protease Tested; for research use only	6 × 1L	46000CM	**MT46000CM**	179.20
	6 × 100mL	MT-46-000-CI	**MT46000CI**	69.80
	6 × 500mL	46-000-CV	**MT46000CV**	123.40

Extracellular Matrices

Corning™ Matrigel™ Membrane Matrix

Solubilized basement membrane preparations polymerize at room temperature

Produces a biologically active matrix material resembling the mammalian cellular basement matrix. Provides a physiologically relevant environment for studies of cell morphology, biochemical function, migration, invasion and gene expression.

- Tested for the ability to promote neurite outgrowth of chick dorsal root ganglia cells
- Tested and found negative for bacteria, fungi and mycoplasma
- Source: Engelbreth-Holm-Swarm (EHS) mouse tumor
- Base formulation: Dulbecco's Modified Eagle's Medium with 50µg/mL gentamycin, with or without Phenol Red

Three Formulations

- Growth Factor Reduced (GFR) formulation is well suited for applications that require a more highly defined basement membrane preparation
- Phenol Red-free is available for assays that require color detection, including fluorescence assays
- High concentration (HC) formulation is ideal for applications in which a high protein concentration augments the growth of tumors; allows a Matrigel basement membrane matrix plug to maintain its integrity after subcutaneous injection into mice

STORAGE:
Stable for at least three months at -20°C or twelve days at 37°C.

ALERTS:
Note: Avoid multiple freeze-thaws; do not store in a frost-free freezer.

Quantity	Mfr. No.	Cat. No.	Each
Matrigel Basement Membrane Matrix			
5mL	356234	**CB-40234A**	177.40
10mL	354234	**CB-40234**	266.78
50mL (5 × 10mL)	356235	**CB-40234B**	1150.00
Matrigel Basement Membrane Matrix, Phenol Red-free			
10mL	356237	**CB-40234C**	324.45
Matrigel Basement Membrane Matrix GFR			
5mL	356230	**CB-40230A**	205.50
10mL	354230	**CB-40230**	320.85
Matrigel Basement Membrane Matrix GFR, Phenol Red-free			
10mL	356231	**CB-40230C**	341.28
Matrigel Basement Membrane Matrix HC, LDEV-Free			
10mL	354248	**CB-354248**	432.60

Corning™ Synthemax™ II-SC Substrate

Self-coating synthetic surface for stem cells

Easy to use, self-coatingmaterial for creating a unique synthetic surface that mimics the natural cell environment. Surface supports the adhesion and expansion of stem cells in their undifferentiated state and directed differentiation into specialized cell types. In addition, it offers a synthetic, xeno-free alternative to biological coatings and/or feeder cell layers used in hES and iPS cell culture.

07-201-611

Allows for the scalable multi-passage expansion of pluripotent stem cells in defined media with:

- Stable doubling time
- Phenotypicmarker expression (Oct 4, SSEA4)
- Retention of pluripotency
- Retention of normal karyotype

Corning Synthemax II-SC Substrate is:

- Easy to use
- Able to coat plastic and glass surfaces
- Lot-traceable
- Gamma sterilized
- Quality tested for lot-to-lot consistency

Size	Mfr. No.	Cat. No.	Price
10mg	3535XX1	**07-201-611**	408.50

Bioreactors

Corning™ Mini Bioreactor Centrifuge Tube

Ideal for high throughput process optimization for suspension cell culture

Product consists of a 50mL centrifuge tube with a vented cap.

- Polypropylene tube with large marking spot
- Polypropylene cap with 4 vents (hydrophobic membrane provides gas exchange)
- Sterile, nonpyrogenic and RNase-/DNase-free

07-202-150

Cat. No.	Case of 300
07-202-150	$417.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ FloWell™ 2W Plate

Multiple-well plate designed with continuous fluid flow technology for the directional controlled feeding of cells for up to 72 hours

Plate consists of two sets of 3-well units. Wells within each unit are connected by porous channels that provide a continuous fluid flow (controlled via hydrostatic pressure). The first well serves as the medium supply well, the third well serves as the waste well while the center well is for culturing cells.

- Simple setup allows for up to 3 days of unattended, continuous cell feeding and media exchange
- Consistent fluid flow between wells enables a variety of co-culturing applications
- Reduced handling and continuous removal of exhausted media lowers the risk of contamination and cell loss
- 6-well
- Clear polystyrene with flat bottom
- Volume: 16.8mL
- Cell growth area: 9.5cm^2 (approx.)
- TC-treated
- Nonsterile (irradiated)
- 24/case

07-202-486

Mfr. No.	Cat. No.	Pack of 24
3487XX1	**07-202-486**	172.20

Sartorius™ SENSOLUX™ EF Erlenmeyer Flasks

- Single-use flask with vented cap
- Sterile packed, ready to use
- Patched with precalibrated pH and DO sensors (approx. 10,000 reads per sensor patch)

14-559-222

Capacity	For	Mfr. No.	Cat. No.	Pack of 9
8.45 oz. (250mL)	SENSOLUX EF 250	DCS--F2	**14-559-222**	298.20

Wheaton™ CELLine™ Bioreactor Flasks

Membrane cell culture flasks ideal for antibody and protein production

High-density cell culture flasks with dual membrane system allow for less culture maintenance and a high concentration harvest.

02-912-741,-2, -4, 5

- Bulk media chamber allows for longer run times without media refreshing
- Cell compartment concentrates cells, antibodies and proteins for simplified purification
- For suspension cell culture and adherent cell culture: Hybridoma, CHO, NS0, SF, BHK, HEK, etc.

02-912-745, 02-912-742

- For adherent cell cultivation
- 1000mL media compartment
- 15mL cell compartment
- Available as package of one (02-912-745) or package of three (02-912-742)

02-912-746, 02-912-743

- For suspension cell cultivation
- 350mL media compartment
- 5mL cell compartment
- Available as package of one (02-912-746) or package of five (02-912-743)

02-912-744, 02-912-741

- For suspension cell cultivation
- 1000mL media compartment
- 15mL cell compartment
- Available as package of one (02-912-744) or package of three (02-912-741)

INCLUDES:
User manual with feeding and harvesting schedules

Cell Capacity	Media Capacity	Quantity per Pack	Mfr. No.	Cat. No.	Each
Adherent					
15mL	1000mL	1	WCL1000AD-1	**02-912-745**	234.50
15mL	1000mL	3	WCL1000AD-3	**02-912-742**	695.50
Suspension					
5mL	350mL	1	WCL0350-1	**02-912-746**	184.00
5mL	350mL	5	WCL0350-5	**02-912-743**	898.00
15mL	1000mL	1	WCL1000-1	**02-912-744**	232.50
15mL	1000mL	3	WCL1000-3	**02-912-741**	684.50

Cell Counter

EMD Millipore™ Scepter™ 2.0 Automated Handheld Cytometer

Cell counting in a portable, personalized format

Scepter Hand-Held Cytometer

PHCC20040

- Automated, impedance-based counting without the error that accompanies vision-based systems
- Accurately count cells in the 4-25µm diameter range
- In addition to cell concentration, the Scepter screen displays a histogram showing the size or volume distribution of the cell population
- On-screen instructions will walk user through assay, step by step
- In less than 20 seconds (on average), the Scepter cytometer will display all the data needed regarding the culture
- After the count is complete, use the toggle button to move from one histogram to another, manipulate or gate counts
- See into the health and quality of cell culture from one preparation to the next

Scepter Sensor

- Has a precision drilled aperture through which cells pass and are counted based on the Coulter principle of impedance changes across a current established by sensor electrodes
- Ensures reproducible counts by drawing precisely 50µL of sample into its liquid handling microchannel each time
- Eliminates pipetting errors and uneven sample loading that can occur
- Able to count cells between 4 and 25µm in diameter, as both 60µm- and 40µm-aperture sensors are available

Scepter Software Pro

- Compare several samples and data sets side by side using histogram overlay and multiparametric tables
- Save and create gating methods to be used from one experiment to the next
- Create attractive graphical presentations and reports with data

Description	Mfr. No.	Cat. No.	Pack of
Scepter			
Scepter with 40µm sensors (50 pack)	PHCC20040	**PHCC20040**	1/3520.00
Scepter with 60µM sensors (50 pack)	PHCC20060	**PHCC20060**	1/3520.00
Sensors			
40µm Sensors (50 pack)	PHCC40050	**PHCC40050**	50/174.30
40µm Sensors (500 pack)	PHCC40500	**PHCC40500**	500/1570.00
60µm Sensors (50 pack)	PHCC60050	**PHCC60050**	50/174.30
60µm Sensors (500 pack)	PHCC60500	**PHCC60500**	500/1570.00
Accessories			
USB cable	PHCCCABLE	**PHCCCABLE**	1/12.73
Test beads	PHCCBEADS	**PHCCBEADS**	1/126.20
Universal power adapter	PHCCP0WER	**PHCCP0WER**	1/36.75
O-Ring kit	PHCC0CLIP	**PHCC0CLIP**	1/11.67

Cell Line Authentication

DDC Medical's Cell Line Authentication and Mycoplasma Detection Lab Services

The DNA profile generated for Cell Line Authentication utilizes STR analysis of a number of highly polymorphic unlinked loci.

Each locus is characterized by a motif of repeat units typically 4 bases in length. The number of repeats detected in a DNA fragment identifies each allele.

INCLUDES:
Certificate of Analysis

Description	Cat. No.	Mfr. No.	Price
Cell Line Authentication with Electropherogram	**TFDDC-C1EP**	TFDDCC1EP	149.00
Cell Line Authentication with Electropherogram and Comparative AAnalysis	**TFDDC-C1EPCA**	TFDDCC1EPCA	229.50
Combined CLA and MD Test with Electropherogram	**TFDDC-CM1EP**	TFDDCCM1EP	189.50
Combined CLA and MD Test with Electropherogram and Comparative Analysis	**TFDDC-CMEPCA**	TFDDCCMEPCA	267.00
Mycoplasma Detection (MD) Service	**TFDDC-M1**	TFDDCM1	81.80

Cell Strainers, Lifters and Scrapers

Fisherbrand® Cell Spreaders

Nonbreakable and reusable polypropylene spreaders available in two sizes: 30 and 60mm bar widths

- Use 30mm wide spreaders for prepared biplates; 60mm for 100 to 150mm prepared plates
- Autoclavable

ORDERING INFORMATION:
Available sterile (individually wrapped) or nonsterile

08-100 SERIES

Size	Color	Cat. No.	Pack of 25	Case of 4 Pack
Nonsterile				
30mm	Blue	**08-100-10**	41.32	129.25
60mm	Yellow	**08-100-11**	37.40	116.80
Sterile				
30mm	Blue	**08-100-12**	168.59	569.32
60mm	Yellow	**08-100-13**	183.85	621.26

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Cell Lifters

Disposable lifters quickly remove cell layers

08-100-240

The Fisherbrand Cell Lifter is used with dishes and cell culture clusters for quick removal of cell layers. The one-piece design and chiseled blade provide improved control while minimizing damage during the cell removal process.

- Sterilized and individually wrapped in peel-open packaging
- Polyethylene copolymer blade with angled and chiseled edge
- Maintains even contact with growth area in culture dishes

Specifications	
Handle Length	7" (18cm)
Blade Length	0.75" (2cm)
Material	Polyethylene

Description	Cat. No.	Case of 100
Cell Lifter	**08-100-240**	178.75

Fisherbrand® Cell Strainers

Universal fit for compatibility with all 50mL conical tubes

22-363-547, 22-363-548, 22-363-549

- Provide a fast, simple alternative to gauze filtration when dissociating cells from clumps or primary tissues
- Produce more uniform single-cell suspensions
- Polypropylene frame with nylon mesh
- Sterile
- Individually packed

Mesh Size	Color	Cat. No.	Case of 50
40µm	Blue	**22-363-547**	105.30
70µm	White	**22-363-548**	105.30
100µm	Yellow	**22-363-549**	106.50

Fisherbrand® Cell Scrapers

Easily harvest cells from tissue culture flasks

08-100-241 and -242

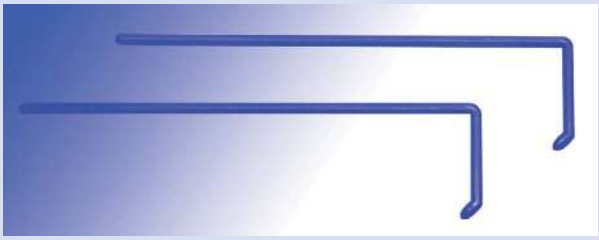
Fisherbrand Cell Scrapers are appropriate for a variety of cell culture vessels. The uniquely designed handle and blade reduce cell damage during the harvesting process.

- Presterilized and individually wrapped in peel-open packaging
- Nonpyrogenic
- Polyethylene copolymer blade pivots to permit even contact with growth surface
- Ribbed polystyrene handle provides secure grip and added control
- Flexible joint between blade and handle eases entry into vessel
- Pivoting blade improves position control to adjust for difficult angles during cell harvesting

Description	Handle Length	Blade Length	Cat. No.	Case of 100
Cell Scraper, Small	25cm	1.8cm	**08-100-241**	174.25
Cell Scraper, Large	39cm	3.0cm	**08-100-242**	199.88

Fisherbrand® L-Shaped Cell Spreaders

Ideal for even spreading of bacterial cultures



14-665-231

- Disposable
- Smooth spreading surface with slight upward angle reduces the risk of damaging agar sample
- L-shape allows application on the entire Petri dish or plate surface
- Presterilized blue polypropylene eliminates the need for flaming or autoclaving

Quantity	Cat. No.	Price
Pack of 100	**14-665-231**	42.10
Pack of 500	**14-665-230**	109.20

Falcon™ Cell Strainers

No more fabricating filters from gauze, paper, steel or nylon mesh

- Use with Falcon 50mL centrifuge tubes (available separately) to obtain more uniform cell suspensions
- Sterile; ready to use
- Nylon mesh is available in 40, 70 and 100µm sizes

ORDERING INFORMATION:
Individually wrapped in medical-grade packaging and gamma irradiated.

Mesh Size	Color	Mfr. No.	Cat. No.	Case of 50
40µm	Blue	352340	**08-771-1**	162.00
70µm	White	352350	**08-771-2**	162.00
100µm	Yellow	352360	**08-771-19**	162.00

08-771-2

Flasks - Specialty Surfaces

Thermo Scientific™ Nunc™ EasYFlasks, Cell Culture Treated

Nunclon™ Delta treated surface ensures optimal cell attachment and growth

Nunc EasYFlasks with Nunclon Delta treated surface are designed for enhanced cell attachment, growth and differentiation. Nunclon Delta Certification including testing on four different cell types is provided in each case.

- Ergonomic design with a 1/3 turn to open, close or vent
- Low profile maximizes incubator space
- Volume graduations printed and molded on both sides
- Wide, angled neck design facilitates pipette and cell scrapper access
- Slightly angled side walls allows complete viewing under a microscope
- Sterilized by gamma irradiation and certified to be nonpyrogenic

Vent/close Caps

- Vent/close caps feature a "Y" mark that allows visual verification of vent position
- Vent position easily distinguished even when flasks are stacked in incubators

Filter Caps

- Filter membrane provides effective barrier against microorganisms
- Well-defined, hydrophobic filter membrane offers continuous venting with consistent gas exchange and no lot-to-lot variation
- Chemically robust membrane meets USP class VI standards and is produced without animal-derived substances

APPLICATIONS:
Cell culture

ORDERING INFORMATION:
Extra caps in every case

INCLUDES:
Caps

12-565 and 12-562 Series Flasks

Culture Area	Working Volume	Mfr. No.	Cat. No.	Case of
With Vent/Close Caps				
25cm²	7mL	156340	**12-565-348**	200/373.50
75cm²	25mL	156472	**12-565-350**	100/359.00
175cm²	55mL	159920	**12-562-001**	30/211.50
225cm²	70mL	159933	**12-565-220**	30/248.00
With Filter Caps				
25cm²	7mL	156367	**12-565-351**	200/432.00
75cm²	25mL	156499	**12-565-349**	100/376.35
175cm²	55mL	159910	**12-562-000**	30/232.50
225cm²	70mL	159934	**12-565-221**	30/253.04

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nunc™ EasYFlasks, Poly-D-Lysine or Collagen I Coated

Ensures cell attachment and facilitates growth

01-814 Series Flasks

- Wide opening and angled neck allow easy and full access to the culture area
- Ergonomic closure, open or close in 1/3 turn
- Ideal for culturing finicky cells that do not bind to regular cell culture treated surface
- Sterile and non-pyrogenic

Filter Caps

- Vent/close and filter caps are available
- Filter caps are fitted with a hydrophobic filter to ensure consistent gas exchange
- "y"-mark allows visual verification of vent position, even when stacked in incubators

APPLICATIONS:
Cell culture

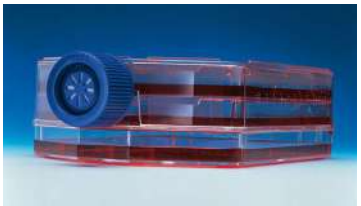
ORDERING INFORMATION:
Extra caps in every case

INCLUDES:
Filter caps

Culture Area	Working Volume	Mfr. No.	Cat. No.	Case of
Poly-D-Lysine Coated				
25cm²	7mL	132703	**01-814-54**	60/517.00
75cm²	25mL	132704	**01-814-55**	30/366.50
175cm²	55mL	132705	**01-814-56**	30/774.50
Collagen Coated				
25cm²	7mL	132706	**01-814-57**	60/517.00
75cm²	25mL	132707	**01-814-58**	30/366.50
175cm²	55mL	132708	**01-814-59**	30/774.50

Thermo Scientific™ Nunc™ TripleFlasks, Cell Culture Treated

Provide 500cm² growth surface within the same external dimensions as standard 175cm² flask



12-565-24

Three layers of growth surfaces provide a total culture area of 500cm² in the same footprint as a standard 175cm² flask.

- Recommended working volume is 200mL
- Promotes conventional, flat, monolayer culturing
- Ideal for large cell mass applications such as drug screening and scale up
- External dimensions of 175cm²
- Also offered barcoded with large Code 128

INCLUDES:
Nunclon Delta Certification including testing on 4 different cell lines is included in each case.

Cap Style	Mfr. No.	Cat. No.	Case of 32
Vent/Close	132867	**12-565-24**	485.59
Filter	132913	**12-565-25**	543.50

Corning™ 1L and 3L Disposable Plastic Spinner Flasks

Ready-to-use system comes with paddle and integrated magnet, eliminating the need for time-consuming assembly or cleaning and reassembly

09-763-00, 09-763-01

- Made of ISO 10993 polystyrene
- Comparable to conventional glass spinner flasks for growth of suspension cell lines and any attachment-dependent cultures using microcarrier beads
- Paddle size and height are optimized for each vessel size
- Magnet provides a smooth, even rotation at required speeds on any laboratory slow-speed stirrer
- Heat buildup in the vessel is reduced by means of a specially designed flange that raises the vessel off the stir-plate surface
- Flared base provides extra stability and support

Type	Capacity	Side Arm Dia.	Mfr. No.	Cat. No.	Case of
Solid, Screw	1000mL	54mm	3561	**09-763-00**	6/1139.00
Solid, Srew	3000mL	54mm	3563	**09-763-01**	4/913.99
Solid, Vent	1000mL	54mm	3580	**07-200-673**	6/1095.00
Solid, Vent	3000mL	54mm	3581	**07-200-674**	4/896.00

Corning™ Cell Culture Treated Flasks

Wide necks reduce sloshing effect

- Stackable, polystyrene
- Cell culture surface treatment promotes cell attachment and growth
- Tested for sterility, toxicity, cell attachment and growth promotion
- Optically clear surfaces provide distortion-free microscope viewing
- Printed lot number for product traceability
- Sterile and nonpyrogenic

10-126-37

Cap Types

- Phenolic-style screw caps for cultures requiring gas exchange
- Plug seal caps for airtight cultures
- Vent caps to minimize cell culture contamination with gas exchange

Canted-Neck Flasks

Feature:

- Antitip skirt
- Molded graduations
- Frosted marking areas on both sides
- Support bar across the top
- Redesigned neck on 75cm² flask features redesigned neck to aid media pouring, 1.4" (3.6cm) height for lower stacking height; vent cap has Costar™-style concentric circle

Culture Area	Cap Type	Volume	Mfr. No.	Cat. No.	Case of
Canted Necks (with antitip skirt)					
25cm²	Plug Seal	70mL	430168	**10-126-30**	500/954.88
25cm²	Phenolic	70mL	430372	**10-126-39**	500/954.88
25cm²	Vent	70mL	430639	**10-126-28**	200/438.37
75cm²	Plug Seal	275mL	430720	**10-126-31**	100/391.08
75cm²	Phenolic	275mL	430725	**10-126-41**	100/391.07
75cm²	Vent	275mL	430641	**10-126-37**	100/402.69
150cm²	Plug Seal	600mL	430823	**10-126-32**	50/329.57
150cm²	Phenolic	600mL	430824	**10-126-33**	50/341.50
150cm²	Vent	600mL	430825	**10-126-34**	50/341.02
Angled Necks					
175cm²	Plug Seal	750mL	431079	**10-126-60**	50/351.61
175cm²	Phenolic	750mL	431085	**10-126-64**	50/348.53
175cm²	Vent	750mL	431080	**10-126-61**	50/355.80
225cm²	Plug Seal	1000mL	431081	**10-126-62**	25/229.11
225cm²	Vent	1000mL	431082	**10-126-63**	5/263.00

Corning™ CellBIND™ Surface Rectangular Cell Culture Flasks

Corning CellBIND surface treatment enhances cell attachment to provide higher cell growth and yields

- Manufactured from optically clear, virgin polystyrene
- Treated surface helps cells adapt to reduced serum or serum-free media; stable at room temperature
- Ideal for short- and long-term cell culture
- Available with vented caps containing a 0.2µm nonwettable membrane sealed to the cap, providing consistent, sterile gas exchange while minimizing risk of contamination or phenolic-style caps for use in open systems requiring gas exchange

CellBIND Surface Rectangular Cell Culture Flasks

- 3290 flask features redesigned neck for easier media pouring, lower height (1.4") for reduced stacking height and vented cap with Costar™-style concentric circle support grid geometry

Choice of Canted or Angled Neck

- Canted neck flasks allow easier pouring and improved access to the flask for pipetting or scraping
- Angled neck improves pipetting access and reduces medium sloshing into the neck
- Printed lot numbers provide easy traceability
- Sterilized by gamma irradiation
- Certified nonpyrogenic

100% integrity tested

- Flask 431328 is prelabeled with bar code for use with SelecT™ Robotic System

Culture Area	Cap Type	Bar Code	Mfr. No.	Cat. No.	Case of
With Canted Neck					
25cm²	Vent	No	3289	**07-201-222**	200/589.50
75cm²	Vent	No	3290	**05-539-104**	100/551.74
150cm²	Vent	No	3291	**05-539-103**	50/445.13
With Angled Neck					
175cm²	Vent	Yes	431328†	**08-757-211**	84/915.50
175cm²	Phenolic-style	No	3298	**08-757-212**	50/455.50
175cm²	Vent	No	3292	**07-201-225**	50/463.08
225cm²	Vent	No	3293	**07-201-226**	25/302.74

† Flask has a 175cm² footprint with an expanded surface equal to 235cm²

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Costar™ Cell Culture Flasks

Culture areas cover applications ranging from research to scale-up and production

- Optically clear, medical-grade polystyrene
- Tissue culture treated to promote optimal cell attachment and growth
- Graduations
- Frosted labeling surfaces
- Sterile and nonpyrogenic
- Extra-wide neck openings for easier pipetting
- Patented canted-neck design improves accessibility for cell monolayer and overall improved handling
- Hydrophobic 0.2µm pore size membrane ensures consistent gas exchange without requiring the cap to be loosened
- Phenolic-style screw caps for cultures requiring gas exhange
- Vented filter caps maximize gas exchange while minimizing the possibilty of contamination

07-200 Series with canted neck

Culture Area	Cap Type	Volume	Mfr. No.	Cat. No.	Case of
Canted Necks					
225cm²	Phenolic	900mL	3000	**07-200-69**	24/239.00
225cm²	Vent	900mL	3001	**07-200-62**	24/231.77
Straight Necks					
162cm²	Phenolic	720mL	3150	**07-200-74**	25/191.20
162cm²	Vent	720mL	3151	**07-200-64**	25/183.40

Costar™ Cell Culture Triangular Flasks

Triangular shape provides excellent accessibility to cell surface

- Optically clear, medical-grade polystyrene is sterile and nonpyrogenic
- Tissue culture-treated to promote optimal cell attachment and growth
- Patented canted-neck design improves accessibility for cell monolayer and overall improved handling
- Graduated
- Frosted labeling surfaces
- Extra-wide neck openings for easier pipetting
- Printed lot number and catalog number on each flask
- Vented filter caps
- Maximize gas exchange while minimizing the possibility of contamination
- Hydrophobic 0.2µm pore size membrane ensures consistent gas exchange without requiring the cap to be loosened

07-200-72

Culture Area	Cap Type	Volume	Mfr. No.	Cat. No.	Case of
Angled Necks					
25cm²	Phenolic	50mL	3055	**07-200-72**	500/1052.00
25cm²	Vent	50mL	3056	**07-200-63**	200/488.84
Straight Necks					
75cm²	Phenolic	300mL	3275	**07-200-75**	100/453.00
75cm²	Vent	300mL	3276	**07-200-66**	100/460.79

Falcon™ Nontreated Tissue Culture Flasks

Similar to the surface of a bacteriological Petri dish

- Canted necks
- Growth surface is more hydrophobic than a treated surface
- Nonpyrogenic and sterile
- Constructed from optically clear virgin polystyrene
- Manufactured under a registered ISO 9002 quality system
- 100% leak testing of injection-molded flasks
- Volumetric graduation accuracy (±5% of volume)
- Stringent requirements for flatness of optical growth surface

Cap Types

- Two-position plug-seal caps for use in open or closed incubation
- Vented caps incorporate a 0.2µm membrane for consistent gas exchange and reduced contamination
- Rigid phenolic (lined) caps twist on and provide the most reliable liquid/gastight sealing

08-772 1J

Culture Area	Volume	Mfr. No.	Cat. No.	Case of
25cm²	70mL	353009	**08-772-1J**	200/347.00
75cm²	250mL	353133	**13-680-57**	60/189.50

Corning™ Primaria™ Tissue Culture Flasks

Suitable for growing a variety of primary cells and cell lines that grow poorly on conventional, negatively charged, standard tissue culture surfaces — including tumor cells, endothelial cells and hepatocytes

Permanent, stable modification of the polystyrene surface incorporates a mixture of anionic and cationic functional groups.

- Sterile, nonpyrogenic
- With plug-seal screw or vented caps
- Both styles available in two sizes
- 50mL flasks have canted neck; 250mL flasks have straight neck
- Samples of each lot are analyzed using Electron Scanning Chemical Analysis (ESCA) to ensure a consistent ratio of nitrogen-containing functional groups

08-772-4 Series Flasks

ORDERING INFORMATION:
Smaller flasks packed 20 per sleeve in cases of 200 (08-772-45 in cases of 100); larger flasks packed five per sleeve in cases of 100.

Growth Surface	Capacity	Mfr. No.	Cat. No.	Case of
Plug-seal Caps				
25cm² (canted)	50mL	353813	**08-772-4E**	200/430.00
75cm² (canted)	250mL	353824	**08-772**	100/389.61
Vented Caps				
25cm² (canted)	50mL	353808	**08-772-45**	100/241.91
75cm² (straight)	250mL	353810	**08-772-46**	100/478.73

Falcon™ Cell Culture Multi Flasks

Grow cells faster and easier, making cell culture workflow more productive

- Even distribution of media across all layers for homogeneous cell growth
- Ability to mix cells and reagents in the Falcon Multi-Flask saves time and reduces risk of contamination
- Flexible design lets you replace media or recover cells using a pipet
- Same workflow as standard T-175 Flask

14-826-95

Description	Cat. No.	Mfr. No.	Case of
Falcon Cell Culture Multi-Flask, 3-Layer, 525cm²	**14-826-95**	353143	12/204.50
Falcon Cell Culture Multi-Flask, 5-Layer, 875cm²	**14-826-96**	353144	8/227.00

Falcon™ Tissue Culture Treated Flasks

Vacuum-gas plasma tissue culture treatment ensures consistent growth surface

- Nonpyrogenic
- Sterile
- Constructed from optically clear virgin polystyrene
- Manufactured under a registered ISO 9002 quality system 100% leak testing of injection-molded flasks
- Volumetric graduation accuracy (±5% of volume)
- Stringent requirements for flatness of optical growth surface
- **Canted-neck** 150cm² flasks which are low-profile for stacking and efficient use in incubator; include locking caps and graduations
- **Straight-neck** 175cm² flasks have frosted writing area
- **225cm² flasks** with locking caps, frosted writing area, vertical graduations, 100mL maximum horizontal working volume line and a skirted, canted neck for extra stability

10-126-9

Cap Types

- Two-position plug-seal caps for use in open or closed incubation
- Vented caps incorporate a 0.2µm membrane for consistent gas exchange and reduced contamination
- Rigid phenolic (lined) caps twist on and provide the most reliable liquid/gastight sealing
- Patented locking incubation position, found on the 150cm² and 225cm² flasks, prevents caps from falling off or closing while in the open position

Culture Area	Cap Type	Volume	Mfr. No.	Cat. No.	Case of
With Canted Necks					
12.5cm²	Plug Seal	25mL	353018	**08-772-1E**	100/179.20
12.5cm²	Vent	25mL	353107	**08-772-1F**	100/213.58
25cm²	Plug Seal	50mL	353014	**10-126-1C**	200/319.50
25cm²	Vent	50mL	353108	**10-126-9**	100/187.69
25cm²	Plug Seal	70mL	353082	**08-772-19**	200/317.00
25cm²	Vent	70mL	353109	**10-126-10**	100/197.38
75cm²	Plug Seal	250mL	353135	**13-680-59**	60/189.00
75cm²	Vent	250mL	353136	**13-680-65**	60/218.17
150cm²	Plug Seal	600mL	355000	**08-772-47**	40/223.50
150cm²	Vent	600mL	355001	**08-772-48**	40/242.64
225cm²	Plug Seal	800mL	353139	**14-826-81**	30/216.00
225cm²	Vent	800mL	353138	**14-826-80**	30/239.06
With Straight Necks					
75cm²	Plug Seal	250mL	353024	**10-126-5**	100/333.00
75cm²	Vent	250mL	353110	**10-126-11**	100/353.25
175cm²	Plug Seal	750mL	353028	**10-126-8**	40/231.00
175cm²	Vent	750mL	353112	**10-126-13**	40/244.17

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ BioCoat™ Collagen IV Rectangular Canted Neck Culture Flask

Ideal for applications involving adhesion, growth and differentiation of neuronal and transfected cell lines

- Designed to closely mimic *in vivo* environments and enhance expression of cell-specific morphology
- Matrix components are applied as an even, optically clear coating
- All lots tested and found negative for bacteria and fungi; cellware is tested for the ability to promote firm attachment of rat cerebellar granule cells

STORAGE:
Stable for at least 3 months after shipment when stored at 2° to 8°C (36° to 46°F).

NOTES:
For research use only.

08-774 Series

Size	Mfr. No.	Cat. No.	Case of
T-25cm²	354534	**08-774-37**	10/228.00
T-75cm²	354523	**08-774-35**	10/322.50
T-175cm²	354528	**08-774-36**	5/341.00

Dishes - Specialty Surfaces

Thermo Scientific™ Nunc™ Dishes, Cell Culture/Petri

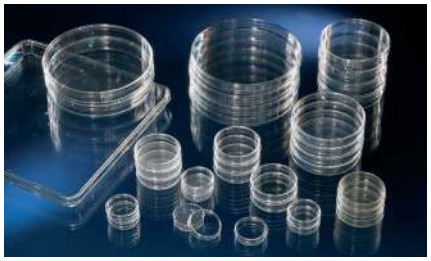
Nunclon Delta surface treatment plus a wide range of culture areas provide choice and flexibility in cell culture experiments

Polystyrene provides high optical quality — especially when microscopic examination is required.

- Top and bottom stacking rings for easier handling and more stable stacking
- Tested for cell growth and plating efficiency
- Radiation sterilized
- Air vents provide gas exchange
- For cloning experiments and plating efficiency determinations
- With lid
- 174926 and 169558 feature 2mm grids
- 171099 for suspension culture — not Nunclon

ORDERING INFORMATION:
For dish dimensions, see product specifications.

INCLUDES:
A certificate which assures user of biological performance as well as traceability.



12-565-020

Culture Area	Working Volume	O.D. × H	Grid Size	Vent	Quantity	Mfr. No.	Cat. No.	Case of
8.8cm²	3mL	40 × 12mm	NA	No	500/Cs.	150318	**12-565-90**	500/370.00
8.8cm²	3mL	35 × 12mm	NA	Yes	400/Cs.	153066	**12-565-91**	500/375.00
8.8cm²	3mL	35 × 100mm	NA	Yes	500/Cs.	153066LC	**12-565-91LC**	500/375.00
8.8cm²	3mL	40 × 12mm	2 × 2mm	Yes	500/Cs.	174926	**12-565-92**	500/455.50
8.8cm²	3mL	40 × 12mm	NA	Yes	500/Cs.	171099	**12-565-93**	500/464.50
20.8cm²	5mL	60 × 15mm	NA	Yes	500/Cs.	174888	**12-565-97**	500/977.00
21.5cm²	5mL	60 × 15mm	NA	No	400/Cs.	150326	**12-565-94**	400/336.50
21.5cm²	5mL	60 × 15mm	NA	Yes	400/Cs.	150288LC	**12-565-95LC**	400/340.50
21.5cm²	5mL	60 ×15mm	NA	Yes	500/Cs.	150288	**12-565-95**	400/340.50
21.5cm²	5mL	60 × 15mm	2 × 2mm	Yes	400/Cs.	169558	**12-565-96**	400/418.00
56.7cm²	5mL	100 × 15mm	NA	Yes	150/Cs.	150350	**12-565-020**	150/231.50
56.7cm²	12.5mL	100 × 15mm	NA	Yes	450/Cs.	150679	**12-565-98**	450/775.50
56.7cm²	12.5mL	100 × 20mm	NA	Yes	480/Cs.	172958	**12-565-99**	480/813.11
145cm²	35mL	150 × 20mm	NA	Yes	80/Cs.	168381	**12-565-100**	80/290.00
150cm²	35mL	150 × 20mm	NA	Yes	120/Cs.	157150	**12-565-352**	120/436.50

Corning™ 60mm Center Well Culture Dish

Advanced center-well design promotes isolation, easy handling and full visibility of cell

Polystyrene dish features a 1mL beveled edge mark for convenient media dispersal, a 45° slope to funnel cell into center well and a beveled lead-in for additional room to maneuver pipet.

- Certified nonpyrogenic; treated for optimal cell attachment
- Outer moat provides humidification to specimen and can be easily washed between applications
- Outer well bottom raises dish off benchtop surface to prevent scratches on optical surface
- Beads on lid provide vents for uniform gas flow
- Sterilized by gamma radiation
- Capacity: center well, 3mL; outer moat, 10mL

ORDERING INFORMATION:

- Diameter: Center well, 0.77" (19.6mm); dish, 2.33" (60mm)
- Height: 0.62" (15.7mm)

07-200-79

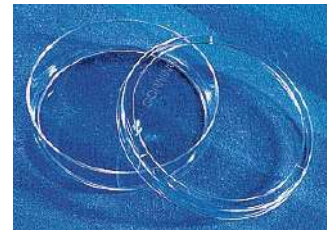
Mfr. No.	Cat. No.	Case of 500
3260	**07-200-79**	1803.00

Corning™ CellBIND™ Surface Culture Dishes

Surface treatment provides optimal cell attachment

- CellBIND-treated surface helps cell adapt to reduced serum or serum-free media
- Manufactured from optically clear virgin polystyrene
- Stacking beads aid in handling
- With vents for consistent gas exchange
- Sterilized by gamma radiation; certified nonpyrogenic
- Requires no refrigeration or special handling, unlike standard coatings used to improve cell attachment

STORAGE:
Stable at room temperature

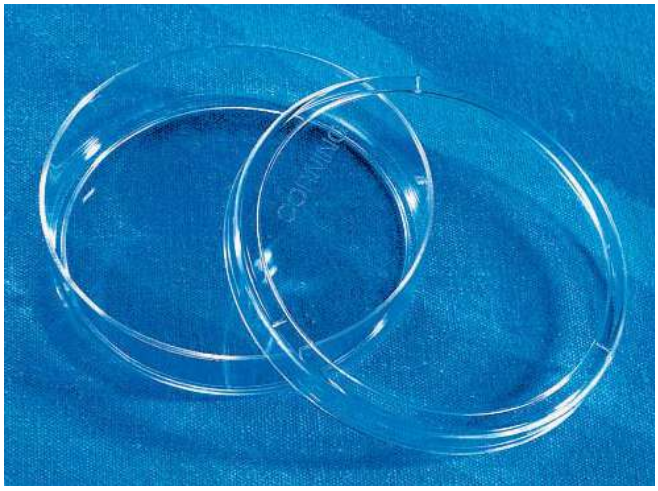


07-202 Series

Size	Approx. Growth Area	Inside Dia.	Height	Mfr. No.	Cat. No.	Case of
35mm	8cm²	33.9mm	10mm	3294	**07-202-514**	210/196.20
60mm	21cm²	51.4mm	15mm	3295	**07-202-515**	126/259.00
100mm	55cm²	80.5mm	20mm	3296	**07-202-516**	40/119.60

Corning™ Ultra-Low Attachment Dishes

Unique covalently bonded hydrogel surface is hydrophilic and neutrally charged



05-539 Series

Surface is designed to maintain cells in a suspended, unattached state. Greatly reduces binding of attachment and serum proteins, minimizing cell attachment and spreading.

- Vents provide consistent gas exchange
- Prevents stem cells from attachment-mediated differentiation
- Prevents anchorage-dependent cells from dividing
- Minimizes protein absorption, enzyme activation and cellular activation
- Biologically inert, noncytotoxic and nondegradable
- Optically clear virgin polystyrene
- Height: 15mm
- Stacking beads aid in handling

ORDERING INFORMATION:
Sterile; packed in sleeves of five.

Size	Growth Area†	Mfr. No.	Cat. No.	Case of 20
60mm	21cm²	3261	**05-539-100**	275.00
100mm	55cm²	3262	**05-539-101**	328.13

†Actual growth surface diameter of 60mm dish is 51.4mm, 100mm dish is 80.5mm.

Falcon™ In Vitro Fertilization Plasticware

FDA-cleared 510(k) medical devices

Tested for embryotoxicity by culturing mouse embryos in both the labware itself and in media that has been in contact with the labware for 24 hours at 37°C (98.6°F).

- Sterile, nonpyrogenic, tissue culture-treated polystyrene plates and dishes
- Labware is "nontoxic" if it supports growth of ≥75% of the embryos to the expanded and/or hatched blastocyst stage
- Optically clear for optimum viewing during routine observation and manipulation

08-772 Series

- Standard 60mm dishes
- Available with or without 2.45cm² center well
- Numbered wells and condensation rings on the lid help prevent any cross-contamination between wells
- Large writing area allows for easy marking and plate identification
- 4-well plate
- Unique proprietary design improves manipulation of ova or embryos
- Includes lid which provides access to two wells while the other two remain covered

ORDERING INFORMATION:
Supplied in peel-open packaging to ensure sterility. Dishes packed 20 per sleeve; plates individually wrapped.

Description	Capacity	Well Area	Mfr. No.	Cat. No.	Case of
Round Dish, 60mm	0.77 oz. (23mL)	24.07cm²	353652	**08-772-42**	500/588.00
Center-well Round Dish, 60mm	0.08 oz. (2.5mL) center well, 0.67 oz. (20mL) total	2.45cm²	353653	**08-772-43**	500/1856.00
4-well Plate	0.06 oz. (1.8mL)	1.39cm²	353654	**08-772-44**	100/772.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ BioCoat™ Gelatin Culture Dish

Pre-coating with gelatin (obtained from porcine gelatin) eliminates time-consuming preparation

08-774-301

Commonly used in the culture of normal and transfected cell types, including vascular endothelial (i.e., BME, BAEC), muscle, embryonic stem, HUVEC for E-Selectin expression and VEGF induction, and F9 teratocarcinoma cells for gene expression studies.

- Provide attachment and growth-promoting substrate for the culture of a variety of cells
- Lot-to-lot consistency results in reproducible experiments
- Matrix components are applied as an even, optically clear coating
- All lots tested and found negative for bacteria and fungi
- Cellware is tested for the ability to promote firm attachment of rat cerebellar granule cells

APPLICATIONS: For adhesion, growth and differentiation of neuronal and transfected cell lines

ORDERING INFORMATION: Bulk quantities available; please contact your Customer Service Representative.

STORAGE: Stable for ≥6 months at 4° to 30°C (39.2° to 86°F) under dry conditions.

Diameter	Mfr. No.	Cat. No.	Case of
100mm	354653	**08-774-301**	10/72.00
	356653	**08-774-304**	40/187.60

Corning™ BioCoat™ Poly-D-Lysine Culture Dish

Ideal for applications involving adhesion, growth and differentiation of neuronal and transfected cell lines

- All lots tested and found negative for bacteria and fungi
- Cellware is tested for the ability to promote firm attachment of rat cerebellar granule cells

08-774 Series PDL Dishes

ORDERING INFORMATION:
Bulk quantities available; please contact your Customer Service Representative.

STORAGE:
Stable for at least three months from date of shipment when stored at 2° to 8°C (36° to 46°F).

Cellware	Mfr. No.	Cat. No.	Case of
35mm dia.	356467	**08-774-258**	100/228.50
	354467	**08-774-257**	20/71.40
35mm dia, coverslip bottom	354077	**08-774-382**	20/183.20
60mm dia.	354468	**08-774-259**	20/72.70
	356468	**08-774-260**	100/237.50
100mm dia.	354469	**08-774-261**	10/71.40
	356469	**08-774-262**	40/213.00
150mm dia.	354550	**08-774-281**	5/105.60

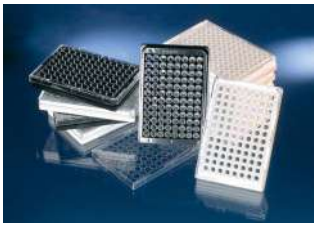
Plates - Specialty Surfaces

Thermo Scientific™ Nunc™ MicroWell™ 96-Well Optical-Bottom Plates with Polymer Base

Optimum clarity for viewing well contents

White or black polystyrene upper structure with polymer or coverglass bottom plates combine the optical clarity of virgin crystalline polystyrene with optimal surface for a wide range of HTS applications.

- Background, autofluorescence and crosstalk are improved when you use Nunc Black or White microplates
- Black microplates are recommended for fluorescence measurements; with minimum back-scattered light and background fluorescence
- White microplates are recommended for luminescence measurements; with maximum reflection and minimal autoluminescence
- Available in black for fluorescence assays or white for luminescence and fluorescence assays; both with clear bottoms
- Polymer base plate
- Working range, 50-200µL/well
- Customized bar coding is available



12-566, -565-9 Series

ORDERING INFORMATION:
Part No. 12-5659-10, 12-5659-09, 12-5659-03 and 12-5659-02 are produced in a clean environment.

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI) (ANSI/SBS 1-2004)

Surface	Color	Total Volume µL/well	Sterile/Lid	Units per Pk./Cs.	Mfr. No.	Cat. No.	Case of
Cell Culture	White	400µL	Yes/Yes	10/30	165306	**12-566-71**	270.50
Cell Culture	Black	400µL	Yes/Yes	10/30	165305	**12-566-70**	270.50
Collagen I	White	400µL	No/Yes	5/20	152040†	**12-5659-10**	416.50
Collagen I	Black	400µL	No/Yes	5/20	152036†	**12-5659-09**	416.50
Non-treated	White	400µL	No/No	10/30	265302	**12-566-73**	400.50
Non-treated	Black	400µL	No/No	10/30	265301	**12-566-72**	400.50
Poly-D-Lysine	White	400µL	No/Yes	5/20	152028†	**12-5659-03**	206.00
Poly-D-Lysine	Black	400µL	No/Yes	5/20	152037†	**12-5659-02**	206.50

†Produced in a clean environment

Thermo Scientific™ Nunc™ Nunclon™ Δ MicroWell™ Plates

Exclusive Nunc Nunclon surface for excellent cell attachment and growth

- Tight-fitting lids reduce evaporation
- Stackable
- Radiation sterilized
- Condensation rings control evaporation and retain condensate
- Keyed lids prevent accidental reversals

96-Well Microwell Plate

ORDERING INFORMATION: Dimensions: 86 × 128mm. Individually wrapped.

CERTIFICATIONS: Each case of plates contains a certificate that guarantees biological performance and traceability.

Well Shape	No. of Wells	Well Volume	Culture Area	Mfr. No.	Cat. No.	Case of
With Lids						
Round	96	300µL	0.36cm²	163320	**12-565-65**	50/313.00
Without Lids						
Round	96	300µL	0.36cm²	143761	**12-565-63**	50/217.50

EMD Millipore™ Millicell™ 24-Well Cell Culture Microplate Assembly

Provides twice the membrane area of standard 24-well plates

Patented assembly is designed to support cell attachment, growth and differentiation for a variety of applications and is compatible with manual use or with automated cell seeding, feeding and washing systems.

Filter Plate Features

- Basolateral access ports at each well allow for media addition without disassembling the cell culture plate and receiver tray
- Apical assist protects the cell monolayer during manual feeding
- Feet on the filter plate raise and protect the cell monolayer if the feeder tray is removed
- Tissue culture-treated membrane promotes cell attachment
- Raised well edges improve tape sealing
- Large-font labeling for user convenience

PSHT010R5

Feeder Tray Features

- 24-well feeder tray incorporates a tear-drop well design to reduce the incidence of air bubbles that can form under the membrane during plate assembly, ensuring that cell monolayers are getting the proper nutrients
- Single-well feeder tray utilizes baffles to reduce media leakage and contamination

INCLUDES: 24-well filter plate; single-well receiver tray; lids

Pore Size	Lid	No. of Wells	Pack Size	Cat. No.	Each
0.4µm	No	24	1	**PSHT010R1**	123.45
0.4µm	No	24	5	**PSHT010R5**	534.00
1.0µm	No	24	1	**PSRP010R1**	128.20
1.0µm	Yes	24	5	**PSRP 010 R5**	534.00
3.0µm	Yes	24	1	**PSST010R1**	130.50
5.0µm	Yes	24	5	**PSMT010R5**	505.50
8.0µm	Yes	24	1	**PSET010R1**	117.00
8.0µm	Yes	24	5	**PSET010R5**	505.50
No filter	Yes	24	5	**PSMW 010 R5**	84.30
No filter	Yes	1	5	**PSSW 010 R5**	84.90

EMD Millipore™ MultiScreen™ 96-Well Assay Systems

Perform cell growth, feeding and analysis in one plate

- Patented 96-well device supports epithelial cell growth and differentiation of the Caco-2 and other cell lines
- After the formation of a differentiated Caco-2 monolayer, the assembly can be used to measure the rate of drug transport across the Caco-2 cell barrier
- All procedures are designed to be carried out in a single device
- Apical and basolateral access ports allow contamination-free access to cells, easy feeding and media changes, and effective sample analysis
- Increased sample throughput when compared to 24-well systems
- Use manually or with automated systems
- Versatile format with 96- or single-well feeder trays

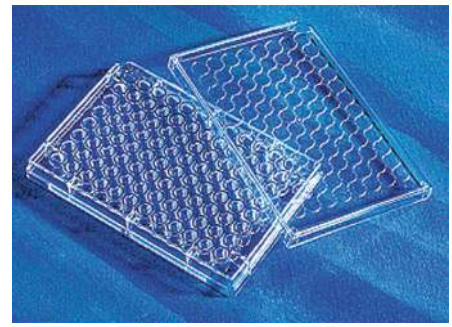
96-Well Assay System

Pore Size	Material [Membrane]	Pack Size	Cat. No.	Each
Assay Systems				
1µm	Polyester	1	**PSRP004R1**	369.50
1µm	Polyester	5	**PSRP004R5**	1569.00
Feeder/Transport Tray with Lids				
NA	NA	5	**MACAC0RS5**	132.70

Corning™ Osteo Assay Surface Microplates

Bone biomimetic synthetic surface is compatible with osteoblast and osteoclast differentiation and functional studies

- Inorganic, non-biological
- Co-culture of osteoclast and osteoblast with other cell lines
- Nonreversible lids with condensation rings to reduce contamination
- Individual alphanumeric codes for well identification
- Individually wrapped
- Sterilized by gamma irradiation



96-Well Plate

Description	Mfr. No.	Cat. No.	Case of 4
24-well	3987XX1	**07-200-882**	261.26
8-well	3989	**09-762-102**	261.26
24-well	3987	**09-762-100**	4/322.00
96-well	3988	**09-762-101**	4/954.50

*Trademark. See Trademarks at www.fishersci.com

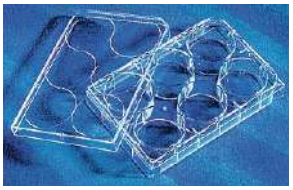
Prices subject to change.

Corning™ CellBIND™ Surface Microplates

Clear polystyrene plates available in multiple well formats

- CellBIND-treated surface helps cells adapt to reduced serum or serum-free media and improves cell attachment for increased cell growth and yield
- Require no refrigeration or special handling, unlike standard coatings used to improve cell attachment
- Nonreversible lids with condensation rings to reduce contamination
- Individual alphanumeric codes for well identification
- Uniform footprint for ease in stacking
- Flat well bottoms
- Sterilized by gamma irradiation

CERTIFICATIONS:
Certified nonpyrogenic



08-757-214

No. of Wells	Color	Growth Area	Mfr. No.	Cat. No.	Case of 50
6	Clear	9.5cm²	3335	**08-757-214**	195.77
12	Clear	3.8cm²	3336	**08-757-215**	226.63
24	Clear	1.9cm²	3337	**08-757-216**	248.24
48	Clear	.95cm²	3338	**13-700-435**	303.00
96	Clear	0.32cm²	3300	**07-201-94**	327.13
96	Black/Clear Bottom	0.32cm²	3340	**07-201-96**	575.63
384	Black/Clear Bottom	0.056cm²	3683	**05-538-90**	801.50

Corning™ Costar™ Cell Culture Plates

Tissue culture-treated plates for cell attachment

- Designed for a wide range of applications, including general cell growth experiments, cloning studies, virus isolation and susceptibility testing, and *in vitro* testing
- Plate bottoms feature uniform thickness — allowing for distortion-free observation and microscopic examination
- Alphanumeric coordinates placed on the same focal plane as cell growth — for convenient referencing of well position
- Gripping edges make handling easier
- All plates have nonreversible lids with condensation rings to minimize evaporation and risk of contamination
- Made of optically clear, medical-grade polystyrene (except 07-200-94, which is made of polypropylene with a polystyrene lid)
- Sterile; Individually wrapped

CERTIFICATIONS: Certified nonpyrogenic

No. of Wells	Well Shape	Well Diameter	Well Growth Area	Total Well Volume	Working Volume	Packaging	Mfr. No.	Cat. No.	Case of
6	Flat	35mm	9.5cm²	17mL	2–3mL	1/bag	3516	**07-200-83**	50/150.30
	Flat	35mm	9.5cm²	17mL	2–3mL	5/bag	3506	**07-200-80**	100/295.01
12	Flat	22.6mm	4cm²	7mL	1mL	1/bag	3513	**07-200-82**	50/174.37
	Flat	22.6mm	4cm²	6.9mL	1mL	5/bag	3512	**07-200-81**	100/340.88
24	Flat	16mm	1.9cm²	3.4mL	0.5mL	1/tray	3526	**09-761-146**	50/190.37
	Flat	16mm	1.9cm²	3.5mL	0.5mL	1/tray	3524	**07-200-84**	100/381.13
	Flat	16mm	1.9cm²	3.4mL	0.5mL	5/bag	3527	**07-200-740**	100/375.02
48	Flat	11.3mm	1cm²	1.6mL	0.25mL	1/tray	3548	**07-200-86**	100/448.90
96	Flat, low lid	6.4mm	0.32cm²	0.365mL	0.1–0.2mL	1/tray	3595	**07-200-89**	50/263.44
	Flat, low lid	6.4mm	0.32cm²	0.365mL	0.1–0.2mL	5/bag	3585	**07-200-87**	50/248.66
	Flat	6.4mm	0.32cm²	0.365mL	0.1–0.2mL	1/tray	3596	**07-200-90**	50/261.91
	Flat	6.4mm	0.32cm²	0.365mL	0.1–0.2mL	10/bag	3997	**09-761-145**	50/233.00
	Flat	6.4mm	0.32cm²	0.365mL	0.1–0.2mL	5/bag	3598	**07-200-91**	100/420.09
	Flat	6.4mm	0.32cm²	0.365mL	0.1–0.2mL	1/bag	3599	**07-200-92**	100/539.00
	Round	6.4mm	0.60cm²	0.33mL	0.1–0.2mL	1/tray	3799	**07-200-95**	50/276.16
	Round	6.4mm	----	0.33mL	0.1–0.2mL	1/tray	3790	**07-200-94**†	50/246.12
	V-shaped	6.4mm	0.38cm²	0.290mL	0.1–0.2mL	1/tray	3894	**07-200-96**	50/322.50

Corning™ HTS Transwell™ -24 Systems

Run 24 automated, high-throughput drug transport studies at once

- System consists of an array of 24 wells with permeable inserts connected by a rigid, robotics-friendly tray — enabling all 24 Transwell supports to be handled as a single unit
- Sterile and tissue culture-treated for anchorage-dependent cell growth, attachment and differentiation
- Cell growth area 0.33cm²/well
- Individual package includes two HTS Transwell-24 plates loaded into two 24-well plates and supplied with two open reservoirs
- Bulk package consists of 12 HTS Transwell-24 plates loaded into twelve 24-well plates
- Use open reservoir plate for cell feeding without extra pipetting (sold separately)

07-200-685 with 07-200-68 series

Pore Size	Packaging	Mfr. No.	Cat. No.	Case of
HTS Transwell-24 Plate with Polycarbonate Membrane				
0.4µm	Individual	3396	**07-200-686**	2/254.50
0.4µm	Bulk	3397	**07-200-687**	12/1384.00
3.0µm	Individual	3398	**07-200-688**	2/254.50
3.0µm	Bulk	3399	**07-200-689**	12/1384.00
Polyester Membrane Insert, 0.4µm				
0.4µm	Individual	3379	**07-200-537**	2/262.00
0.4µm	Bulk	3378	**07-200-539**	12/1424.00
HTS Transwell Open Reservoir				
----	----	3395	**07-200-685**	48/200.50

Corning™ Ultra-Low Attachment Plates

Nonreversible lids with condensation rings reduce contamination

Unique covalently bonded hydrogel surface is hydrophilic and neutrally charged. Designed to maintain cells in a suspended, unattached state. Greatly reduces binding of attachment and serum proteins, minimizing cell attachment and spreading.

- Biologically inert surface
- Prevent stem cells from attachment-mediated differentiation
- Prevent anchorage-dependent cells from dividing
- Minimize protein absorption, enzyme activation and cellular activation
- Noncytotoxic and nondegradable
- Convenient design
- Made from optically clear polystyrene
- Individual alphanumeric codes provide well identification
- Uniform footprint aids stacking
- Flat well shape

07-200-602, -603, -601

No. of Wells	Well Diameter	Well Growth Area	Mfr. No.	Cat. No.	Case of 24
6	34.8mm	9.5cm²	3471	**07-200-601**	353.26
24	15.6mm	1.9cm²	3473	**07-200-602**	374.00
96	6.4mm	0.32cm²	3474	**07-200-603**	414.06
96	6.4mm	0.32cm²	7007	**07-201-680**	468.83

Falcon™ Tissue Culture Plates

Available with tissue culture-treated and nontreated surfaces

- Choose tissue culture-treated or nontreated surfaces
- Nontreated growth surface is more hydrophobic than tissue culture surface and is similiar to the surface of a bacteriological Petri dish
- Sterilized by gamma irradiation
- Lid design permits stable stacking on benchtop or in incubator
- All plates have patented "labyrinth" lid that reduces evaporation of media from wells and minimizes the risk of contamination
- Deep skirt and serrated edge permit a firmer grip for plate manipulation
- Exceptional optical clarity allows for visualization of all cell monolayers
- Frosted writing ends provide clear writing area for quick identification
- All plates and lids are suitable for both manual and automated handling

(Left to right) 08-772-1B, 08-772-29, 08-772-1

ORDERING INFORMATION:
Peel-open, medical-style packaging. Individually packaged in recyclable PET tray in cases of 50; or bulk packaged with lids either in sleeves of six, 36 per case, or sleeves of five (96-well plates), 50 per case.

No. of Wells	Well Bottom Shape	Treated Surface	Growth Area	Well Capacity	Packaging	Mfr. No.	Cat. No.	Case of
6	Flat	Tissue-culture	9.6cm²	15.5mL	1/Tray	353046	**08-772-1B**	50/128.29
6	Flat	Tissue-culture	9.6cm²	15.5mL	6/Bag	353224	**08-772-1G**	36/102.93
6	Flat	Tissue-culture	9.6cm²	15.5mL	10/RS tray	353934	**08-772-33**	60/161.21
6	Flat	No	9.6cm²	15.5mL	1/Tray	351146	**08-772-49**	50/133.59
12	Flat	Tissue-culture	3.8cm²	6.0mL	1/Tray	353043	**08-772-29**	50/148.07
12	Flat	Tissue-culture	3.8cm²	6.0mL	6/Bag	353225	**08-772-3A**	36/116.98
12	Flat	No	3.8cm²	6.0mL	50/Cs.	351143	**08-772-50**	50/159.47
24	Flat	Tissue-culture	2.0cm²	3.5mL	1/Tray	353047	**08-772-1**	50/160.09
24	Flat	Tissue-culture	2.0cm²	3.5mL	6/Bag	353226	**08-772-1H**	36/128.50
48	Flat	Tissue-culture	0.75cm²	1.4mL	1/Tray	353078	**08-772-1C**	50/204.33
48	Flat	Tissue-culture	0.75cm²	1.4mL	6/Bag	353230	**08-772-3D**	36/156.84
48	Flat	No	0.75cm²	1.4mL	1/Tray	351178	**08-772-52**	50/208.41
96	Flat	Tissue-culture	0.32cm²	0.37mL	1/Tray	353072	**08-772-2C**	50/205.02
96	Flat	Tissue-culture	0.32cm²	0.37mL	5/Bag	353075	**08-772-3**	50/217.08
96	Flat	Tissue-culture	0.32cm²	0.37mL	Bulk	353916	**08-773-10**	100/357.00
96	Flat	No	0.32cm²	0.37mL	1/Tray	351172	**08-772-53**	50/153.90
96	U-bottom	Tissue-culture	0.36cm²	0.32mL	1/Tray	353077	**08-772-17**	50/197.68
96	U-bottom	Tissue-culture	0.36cm²	0.32mL	5/Bag	353227	**08-772-3B**	50/192.26
96	U-bottom	No	0.36cm²	0.32mL	1/Tray	351177	**08-772-54**	50/166.80

Falcon™ Tissue Culture-Treated 96-Well Microplates

Polystyrene microplates with tissue culture-treated surface

- Flat bottom; with lid
- Storage: -20° to +60°C
- Sterile; Class I Medical
- Choose black or white/clear
- Surface area: 10 sq. cm
- 8 per pack; 32 per case

Color	Mfr.No.	Cat. No.	Case of 32
Black	353376	**BD353376**	219.59
White/Clear	353377	**BD353377**	232.68

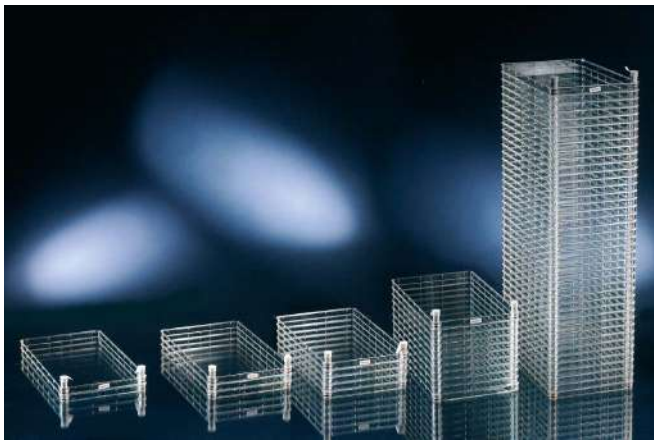
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Culture Chambers

Thermo Scientific™ Nunc™ Cell Factory™ Systems

Used for large-scale cell culture and production of biomaterials such as vaccines, monoclonal antibodies and interferon



NunclonCell Factory

- Ideal for adherent cells
- Boost production efficiency with more surface area in a small footprint
- Reduce contamination risks with a closed system
- Experience faster results and lot-to-lot consistency

No. of Chambers	Total Culture Area	Mfr. No.	Cat. No.	Case of
1	632cm²	165250	**12-565-37**	8/522.32
2	1264cm²	167695	**12-565-38**	6/407.50
4	2528cm²	140004	**12-566-90**	10/1285.00
10	6320cm²	164327	**12-565-39**	2/510.50
10	6320cm²	170009	**12-565-40**	6/1527.00
40	25,280cm²	139446	**12-565-289**	2/2070.00

Thermo Scientific™ Nunc™ EasyFill™ Cell Factory™ Systems

Bridges small-scale research and commercial production

Nunc EasyFill Cell Factory System

- Save valuable space — each EasyFill Cell Factory 10 holds the equivalent of 36 T175 flasks
- Enhance productivity with 5x faster fill and empty times vs. T175 flasks (36)
- Achieve fast start-up — no accessories required with EasyFill Cell Factory systems

No. of Trays	Culture Area	Working Volume	Mfr. No.	Cat. No.	Case of
1	632cm²	200mL	140000	**12-567-300**	6/395.50
2	1264cm²	400mL	140250	**12-567-301**	6/481.50
4	2528cm²	800mL	140360	**12-567-302**	4/519.50
10	6320cm²	2000mL	140400	**12-567-303**	2/511.00
10	6320cm²	2000mL	140410	**12-565-022**	6/1432.00

Corning™ HYPERStack™ Culture Vessels

Closed system that allows fluid manipulations to occur through preassembled tubing sets

- 2.5 times more cells per volumetric footprint
- Closed system, no open fluid manipulations
- Scalable, multiple size offerings
- Ergonomic design for easier manipulation
- Fixed media volume — 0.2 mL/cm² fills vessel for optimal handling
- Innovative assembly
- No adhesives, low particulate
- Lower disposal cost
- Less volumetric waste per growth area

Description	Growth Area	Surface	Mfr. No.	Cat. No.	Each
HYPERStack 36-Layer Vessel	18,000	Corning CellBIND Surface	10036	**07-201-844**	2450.00
HYPERStack-36 Layer Vessel, nontreated	18,000	Corning CellBIND Surface	10037	**07-201-872**	2180.00
HYPERStack 12-Layer Vessel	6000	Corning CellBIND Surface	10012	**07-201-843**	2160.00
HYPERStack-12 Layer Vessel, nontreated	6000	Corning CellBIND Surface	10013	**07-201-871**	2020.00

Corning™ HYPERFlask™ M Cell Culture Vessels

Specifically designed for manual use

The novel Corning HYPERFlask cell culture vessel offers 1720cm² growth area in the footprint of a traditional 175cm² flask. This high-yield, high-performance flask utilizes a multilayer gas face for efficient gas exchange.

- Adapter Grid: design allows for faster filling and emptying while reducing foam generation
- Serial Number: each individual flask is traceable by a serial number that can be read by the unaided eye or by a handheld barcode reader
- Innovative 10 Layer Design: 10 interconnected polystyrene growth surfaces
- Optimal Growth: Corning CELLBIND™ surface-treated gas permeable polystyrene for superior cell attachment and growth
- Increased Cell Yield: 10-fold higher cell yield increases productivity and capacity
- Time and Space Savings: Reduce processing time and incubator storage space by handling one flask compared to 10 traditional 175cm² flasks
- Made with Class VI Materials: molded and assembled in a Certified Class 100,000 cleanroom

09-761-20 Series

ORDERING INFORMATION:
Supplied double bagged.

Specifications	
Material	Polystyrene
Cell Growth Area	1720cm²
Neck Style	Straight
Cap	Ergonomic Flat Cap
Cap Material	High-density polyethylene
Working Volume	560mL
Sterile	Yes

Description	Inner Packaging	Mfr. No.	Cat. No.	Price
Corning HYPERFlask M Cell Culture Vessels, CellBIND Surface, 4/Bag, 4/Cs	4 per pack	10020	**09-761-22**	513.50
Corning HYPERFlask M Cell Culture Vessels, CellBIND Surface, 1/Bag, 4/Cs	1 per pack	10030	**13-700-420**	509.00
Corning HYPERFlask M Cell Culture Vessels, CellBIND Surface	4 per pack	10034	**09-761-23**	3050.00
Nontreated Surface	1 per pack	10031	**13-700-421**	455.50

Corning™ Universal CellSTACK™ Caps

For filling, venting and manipulation

- Choice of 33mm polyethylene, solid or vented
- Sterilized by gamma irradiation

07-201-734

Description	Vented	Cap Color	Packaging	Mfr. No.	Cat. No.	Price
With 3/8" (9.5mm) ID Tubing and a 5/16" (7.94mm) ID Barbed Fitting	No	Orange	5/cs.	3283	**07-201-734**	301.50
With 1/4" (6.4mm) ID tubing and 37mm filter (with hydrophobic class fiber filter)	Yes	Orange	4/cs.	3284	**07-201-232**	384.50
With 1/8" (3.2mm) ID Tubing and a Female Luer 1/8" (3.2mm) Hose Barb with a Male Luer Lock Plug	No	Orange	5/cs.	3282	**07-201-733**	264.92
With 1/8" (3.2mm) ID Tubing and a Female Luer 1/8" (3.2mm) Hose Barb with a Male Luer Lock Plug	No	Orange	4/cs.	3333	**07-201-230**	294.50
With a Male MPC Polycarbonate with a 3/8" (9.5mm) ID Coupling and a Female MPC Polycarbonate End Cap	No	Orange	4/cs.	3339	**07-202-522**	282.50
With a Female MPC Polycarbonate with a 3/8" (9.5mm) ID Coupling and a Male MPC Polycarbonate End Cap	No	Orange	4/cs.	3329	**07-202-520**	295.50
With a Female MPC Polycarbonate with a 1/4" (6.4mm) ID Coupling and a Male MPC Polycarbonate End Cap	No	Orange	4/cs.	3328	**07-202-519**	292.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ CellSTACK™ Culture Chambers

Culture chambers feature USP Class VI polystyrene construction for excellent optical clarity and mechanical strength.

- Two generous 26mm filling ports provide direct access to chamber bottom
- Standard 33mm threaded caps have 0.2µm pore nonwettable membranes sealed to caps
- Choice of three surface treatments
- Sterilized by gamma irradiation and leak tested
- Corning CellBIND™ surface treatment improves cell attachment leading to increased cell growth and yields and provides more consistent and even cell attachment.
- Ultra-Low attachment surface features a covalently bound hydrogel layer that effectively inhibits cellular attachment and minimizes protein absorption, enzyme activation and cellular activation

CellSTACK

COMPLIANCE: Polystyrene material meets USP Class VI requirements

CERTIFICATIONS: Certified nonpyrogenic.

No. of Chambers	Total Culture Area	Mfr. No.	Cat. No.	Case of
Standard Cell Culture Surface				
1	636cm²	3268	**05-539-094**	8/517.17
2	1272cm²	3269	**05-539-095**	5/388.76
5	3180cm²	3319	**07-201-630**	2/377.10
5	3180cm²	3313	**05-539-098**	8/1408.00
10	6360cm²	3270	**05-539-096**	2/561.32
10	6360cm²	3271	**05-539-097**	6/1614.95
40	25,440cm²	3272	**07-201-820**	2/2210.00
Corning CellBIND Surface				
1	636cm²	3330	**07-201-93**	8/680.00
2	1272cm²	3310	**07-201-90**	5/519.50
5	3180cm²	3311	**07-201-95**	2/678.00
10	6360cm²	3312	**08-757-213**	2/989.17
10	6360cm²	3320	**07-201-91**	6/2920.00
Ultra-Low Attachment Surface				
1	636cm²	3303	**08-757-226**	8/1362.00

Corning™ HYPERFlask™ Cell Culture Vessels

Bar-coded and compatible with cell culture automation platforms

The sterile vessel offers 1720cm² growth area in the footprint of a traditional 175cm² flask. This high-yield flask utilizes a multilayer gas permeable growing surface for efficient gas exchange.

- CellBIND™ surface treatment increases oxygen content of the polymer surface, resulting in improved hydrophilicity and wettability
- Rectangular polystyrene
- Max. Working Volume: 560mL
- HDPE plug seal cap on a straight neck

13-700-407

Mfr. No.	Cat. No.	Case of
10024	**13-700-407**	24/2750.00

Chamber Slides and Coverslips

Fisherbrand® Coverglass for Growth™ Cover Glasses

Made from preferred glass to promote cell growth and to provide an anchor for cells

- Cells grow directly on cover glass — eliminates trauma associated with transferring cells from flask to slide
- Thickness, 0.13 to 0.17mm (Number 1)

12-545 Series

ORDERING INFORMATION:
Supplied in pack of 1 oz. (692).

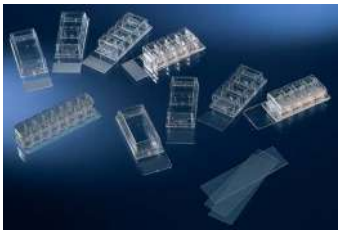
Circle Diameter	Cat. No.	Pack of 10 oz.	Case of 10 Pack
12mm	**12-545-82**	259.50	2260.00
15mm	**12-545-83**	183.20	1582.00
18mm	**12-545-84**	160.90	1396.00
22mm	**12-545-85**	132.10	1181.00
25mm	**12-545-86**	133.50	1194.00

Thermo Scientific™ Nunc™ Lab-Tek™ Chamber Slide™ System

Convenient cell culture on microscope slides

Use the same slide later for staining and microscopic examination.

- Broad range of formats and well number to meet application needs
- Writing surface provides easy identification of samples
- In 1, 2, 4, 8 and 16 well configurations; all measure 25 × 75mm
- Medical-grade silicone sealing gasket can be removed for cover slipping
- No cell transfer needed prior to visualization/staining
- Useful for viral and mycoplasma testing, chromosome studies, toxicity tests and immunocytology
- Sterile



Lab-Tek Chamber

CERTIFICATIONS: CE marked.

No. of Wells	Working Volume	Growth Area	Mfr. No.	Cat. No.	Pack of 16	Case of
Permanox Plastic Chamber Slide System						
1	2.5 to 4.5mL	9.4cm²	177410	**1256519**	186.60	6 Pk./941.50
2	1.2 to 2.0mL	4.2cm²	177429	**1256520**	187.70	6 Pk./951.00
4	0.5 to 0.9mL	1.8cm²	177437	**1256521**	194.20	6 Pk./974.00
8	0.2 to 0.4mL	0.8cm²	177445	**1256522**	200.00	6 Pk./995.50
Glass Chamber Slide System						
1	2.5 to 4.5mL	9.4cm²	177372	**12-565-15**	160.20	6 Pk./797.50
2	1.2 to 2.0mL	4.2cm²	177380	**12-565-16**	160.90	6 Pk./805.50
4	0.5 to 0.9mL	1.8cm²	177399	**12-565-17**	174.20	6 Pk./846.00
8	0.2 to 0.4mL	0.8cm²	177402	**1256518**	177.60	6 Pk./842.50
16	0.1 to 0.2mL	0.4cm²	178599	**12-565-110N**	188.30	6 Pk./958.50
Cover Glass (fits 16-well slide)						
----	----	----	171080	**12-565-105**	----	96/55.70

Thermo Scientific™ Nunc™ Lab-Tek™ Flask on Slide

Perform cell culture directly on a microscopy slide

12-565 series Lab-Tek Chamber slides

Sterile, ultrasonically welded and individually lead tested.

SlideFlask Chamber (shown with black cap in photo)

- Employs tissue culture-treated polystyrene slide attached to 18 × 50 mm flask structure via ultrasonic weld — allowing for long-term, leak-free incubation
- Upper flask structure snaps away easily after culture —freeing slide for microscopic examination
- Nunclon Delta certified
- Available Coverglass (171862)

The Flaskette Chamber
(shown with white cap)

- Glass slide with a silicone gasket and a 20 × 50mm upper flask structure
- Can be sealed to exclude air — useful when embedding cells in resin for electron microscopy
- CE marked

Description	Mfr. No.	Cat. No.	Pack of	Case of
SlideFlask Chamber	170920	**12-565-112**	—	50/541.49
Flaskette Chamber	177453	**12-565-23**	16/195.80	96/949.00

Thermo Scientific™ Nunc™ Lab-Tek™ II CC2™ Chamber Slide™ System

Designed for growing and viewing primary neurons or poorly adherent cell lines

12-565-4, -3, -2, -1

Chemically modified CC2 growth surface mimics biological coatings like polylysine.

- Remains stable and consistent for over one year without refrigeration
- Tabbed cover allows gas exchange while minimizing evaporation
- Sterile
- Removal tool separates chamber from glass
- Provides binding sites optimal for fastidious cells
- Light blue frosted writing area

INCLUDES: Removal tool

CERTIFICATIONS: UL listed.

No. of Wells	Working Volume	Growth Area	Mfr. No.	Cat. No.	Pack of 16	Case of 6 Pack
1	2.0 to 4.5mL	8.6cm²	154739	**12-565-4**	228.50	1179.00
2	1.0 to 2.0mL	4.0cm²	154852	**12-565-3**	246.00	1302.00
4	0.5 to 1.0mL	1.7cm²	154917	**12-565-2**	236.50	1218.00
8	0.2 to 0.5mL	0.7cm²	154941	**12-565-1**	248.50	1257.00

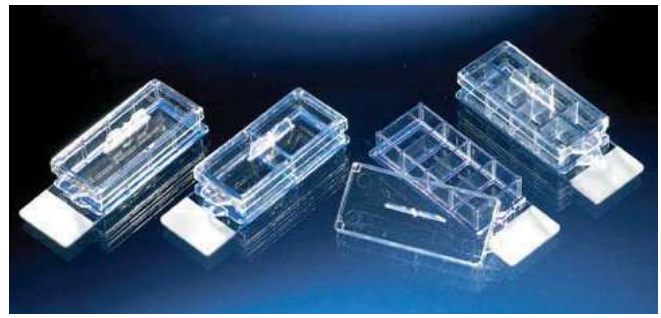
Thermo Scientific™ Nunc™ Lab-Tek™ II Chamber Slide™ System

Miniature cell culture vessels with growth-enhancing RS wash

Consist of a removable media chamber attached to a standard glass microscope slide (25 × 75mm) — grow cells directly on slides. Slides are specially treated with a unique RS wash to ensure a consistent growth surface.

- Completely sterile and available in 1-, 2-, 4- or 8-well configurations
- Tabbed cover fits on top of the chamber to allow gas exchange while minimizing evaporation
- Removal tool (included) makes it easy to separate the chamber from slide
- Superfrost™ marking area facilitates labeling
- Non-fluorescent microscope slide, glass with rounded corners
- Biocompatible adhesive
- Inert hydrophobic well border printed on slide
- Treated for excellent attachment and growth of cells
- Slide separator included in each pack
- CE marked

INCLUDES: Removal tool



12-565-5, -6, -7, -8

No. of Wells	Working Volume	Growth Area	Mfr. No.	Cat. No.	Pack of 16	Case of 6 Pack
1	2.0 to 4.5mL	8.6cm²	154453	**12-565-5**	192.60	821.00
2	1.0 to 2.0mL	4.0cm²	154461	**12-565-6**	159.10	811.00
4	0.5 to 1.0mL	1.7cm²	154526	**12-565-7**	171.20	872.00
8	0.2 to 0.5mL	0.7cm²	154534	**12-565-8**	173.00	907.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Nunc™ Lab-Tek™ II Chambered Coverglass

Enhanced for culturing and viewing living cells

- Nonremovable polystyrene chambered media chamber securely mounted to extra-thin (No. 1.5) borosilicate coverglass for optimum high-power inverted microscopic viewing
- Gas exchange achieved with minimal evaporation through tabbed polystyrene cover
- For culturing and viewing living cells
- Sterile

LT2 Chamber

ORDERING INFORMATION: Shipped sterile in convenient stackable incubation trays.

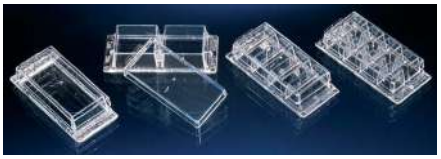
CERTIFICATIONS: CE marked.

No. of Wells	Working Volume	Growth Area	Mfr. No.	Cat. No.	Pack of 16	Case of 6 Pack
1	2.0 to 4.5mL	8.6cm²	155360	**12565335**	209.50	1106.00
2	1.0 to 2.0mL	4.0cm²	155379	**12565336**	219.50	1189.00
4	0.5 to 1.0mL	1.7cm²	155382	**12565337**	229.50	1212.00
8	0.2 to 0.5mL	0.7cm²	155409	**12565338**	241.50	1268.00

Thermo Scientific™ Nunc™ Lab-Tek™ Chambered Coverglass

Enhanced for culturing and viewing living cells

- Chambered coverglass is perfect for confocal image analysis
- Optimal for high power inverted microscope viewing
- Nonremovable polystyrene media chambers secured to a 1.0 borosilicate chambered coverglass
- Sterile



LT Chamber

CERTIFICATIONS:
CE marked.

No. of Wells	Working Volume	Growth Area	Mfr. No.	Cat. No.	Pack of 16	Case of 6 Pack
1	2.5 to 4.5mL	9.4cm²	155361	**12-565-472**	182.00	913.00
2	1.2 to 2.0mL	4.2cm²	155380	**12-565-471**	184.60	945.50
4	0.5 to 0.9mL	1.8cm²	155383	**12-565-401**	184.20	935.50
8	0.2 to 0.4mL	0.8cm²	155411	**12-565-470**	195.90	1017.00

Cellware Inserts and Specialty Surfaces

Alvetex™ 3D Cell Growth Plates and Inserts

A range of product formats for all your applications

Alvetex Scaffold enables genuine 3-dimensional cell culture to be achieved simply and routinely.

- Highly porous (more than 90%) inert polystyrene scaffold
- Provide cultured cells with an environment and physical space in which to grow in 3 dimensions (3D)
- Once seeded, cells freely invade the scaffold and start to produce genuine, homogeneous 3D cellular structures that resemble micro-slabs of tissue
- Available as hanging insert and plate formats (96-well, 24-well and 12-well)

Typical uses:

- Growth of 3D tumor cells for testing cytotoxicity of anti-cancer drugs
- Growth and differentiation of stem cells in 3D
- Improved predictive accuracy of Liver Tox testing with primary hepatocytes
- Formation of full thickness skin models for compound testing
- Growth of complex epithelial models
- Co-culture models
- 3D cell migration/invasion models

APPLICATIONS:

- Enhanced cell viability and responsiveness to growth factors/therapeutic agents
- Improve predictive accuracy of cell base assays
- More accurately mirror the natural *in vivo* cellular environment
- Better understand how cells interact within complex systems
- Reduce the dependency on animal model testing
- Build more biologically relevant *in vitro* assays

Description	Mfr. No.	Cat. No.	Per Pack
Well Inserts			
48 Alvetex 12-well inserts	AVP005-48	**AVP00548**	419.52
48 Alvetex 6-well inserts	AVP004-48	**AVP00448**	419.52
96 Alvetex 6-well inserts	AVP004-96	**AVP00496**	898.50
12 Alvetex 6-well inserts	AVP004-12	**AVP00412**	239.50
12 Alvetex 12-well inserts	AVP005-12	**AVP00512**	201.50
96 Alvetex 12-well inserts	AVP005-96	**AVP00596**	839.04
Well Plates			
2 Alvetex 12-well plates	AVP002-2	**AVP0022**	217.50
10 Alvetex 12-well plates	AVP002-10	**AVP00210**	342.56
2 Alvetex 24-well plates	AVP006-2	**AVP0062**	252.50
2 Alvetex 96-well plates	AVP009-2	**AVP0092**	316.50
10 Alvetex 24-well plates	AVP006-10	**AVP00610**	600.40
10 Alvetex 96-well plates	AVP009-10	**AVP00910**	752.40
Well Insert Holder with Petri Dish			
2-well insert holder with Petri dish	AVP015-2	**AVP0152**	78.70
10-well insert holder with Petri dish	AVP015-10	**AVP01510**	247.01

Inserts

Corning™ Transwell™ Permeable Supports

For studying anchorage-dependent and -independent cells

07-200-165

- Microporous inserts come preloaded in tissue culture plates
- Available tissue-culture-treated in 6-, 12- or 24-well formats
- Openings for pipet tips for convenient addition and removal of media and samples from both compartments
- Patented self-centering design provides independent access to both apical and basolateral membranes of the cell monolayer
- Polycarbonate membranes are compatible with most organic fixatives and stains

APPLICATIONS: Epithelial and endothelial cell culture; transport, migration/invasion, co-culture and microbial pathogenesis studies

Pore Size	Diameter	Growth Area	Mfr. No.	Cat. No.	Case of
For 6-well Plates					
0.4µm	24.5mm	4.7cm²	3412	**07-200-165**	24/144.64
3.0µm	24.5mm	4.7cm²	3414	**07-200-166**	24/147.50
8.0µm	24.5mm	4.7cm²	3428	**07-200-169**	24/147.50
PC, 12mm, 0.4Glc mum					
0.4µm	12mm	1.0cm²	3401	**07-200-156**	48/269.81
3.0µm	12mm	1.0cm²	3402	**07-200-157**	48/269.81
For 24-well Plates					
0.4µm	6.5mm	0.33cm²	3413	**07-200-147**	48/249.92
3.0µm	6.5mm	0.33cm²	3415	**07-200-148**	48/249.92
5.0µm	6.5mm	0.33cm²	3421	**07-200-149**	48/250.43
8.0µm	6.5mm	0.33cm²	3422	**07-200-150**	48/250.43

Corning™ Transwell™-COL Collagen-Treated Coated Membrane Insert

Transparent, collagen-treated microporous membranes promote cell attachment and spreading

07-200-559

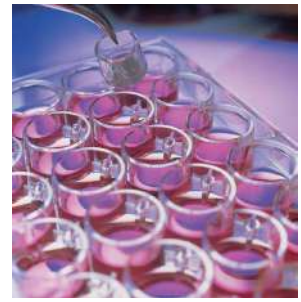
- Designed for transport studies, co-culture, and other experimental procedures; improves visibility of cells during culture
- Membrane has an equimolar mixture of Types I and III collagen derived from bovine placenta — a biologically stabilized collagen which covers every fibril of the filter membrane matrix, maintaining porosity of the membrane
- Inside wall of the insert has also been treated to allow formation of a complete and integral monolayer; can be viewed by phase-contrast microscopy
- Tissue culture treated

ORDERING INFORMATION: Individually packed and supplied in package with tissue culture plates with lids; sterile.

Pore Size	Diameter	Growth Area	Mfr. No.	Cat. No.	Case of 24
For 6-well Plates					
0.4µm	24mm	4.7cm²	3491	**07-200-558**	351.42
3.0µm	24mm	4.7cm²	3492	**07-200-559**	365.00
For 12-well Plates					
0.4µm	12mm	1.0cm²	3493	**07-200-560**	330.00
3.0µm	12mm	1.0cm²	3494	**07-200-561**	343.50
For 24-well Plates					
0.4µm	6.5mm	0.33cm²	3495	**07-200-153**	310.10
3.0µm	6.5mm	0.33cm²	3496	**07-200-563**	329.00

EMD Millipore™ Millicell™ Culture Plate Inserts

Designed for improved cell differentiation and expanded applications involving analytical cell biology



PIHA 012 50

- Microporous membranes allow access to cell monolayer from both apical and basolateral domains; promote enhanced cell attachment, growth, and differentiation of attachment-dependent and suspension cultures
- Ready-to-use Milicell inserts fit most 6- or 24-well plates and are easily prepared for SEM and TEM techniques; compatible with standard and fluorescent stains
- Effective growth area for 12mm diameter inserts, 0.6cm²; and 4.2cm² for 30mm diameter inserts

Millicell-HATF and Millicell-PCF Inserts

- Don't require an extracellular matrix for attachment-dependent cells
- Polystyrene housing; supplied sterile and individually blister packed
- **Millicell-HATF Inserts** utilize a mixed cellulose esters membrane; Triton™-free
- **Millicell-PCF Inserts** utilize tissue culture-treated polycarbonate membranes for use in co-culturing applications as well as tumor cell invasion and metastasis studies
- **Millicell-CM Inserts** incorporate transparent hydrophilic PTFE Biopore™ membranes for neural growth and embryo development work
- Inert and allow repeated viewing of living cells through the membrane

APPLICATIONS: Transport and permeability studies, co-culture for cell-cell interaction studies, *in vitro* toxicity testing, tumor cell metastasis studies and organotypic cultures

Pore Size	Diameter	Cat. No.	Pack of 50
Millicell-HATF Inserts			
0.45µm	13mm	**PIHA 012 50**	267.50
0.45µm	31.5mm	**PIHA 030 50**	335.00
Millicell-CM Inserts			
0.4µm	13mm	**PICM 012 50**	263.50
0.4µm	30mm	**PICM 0RG 50**	400.00
0.4µm	31.5mm	**PICM 030 50**	340.00
Millicell-PCF Inserts			
0.4µm	13mm	**PIHP 012 50**	252.50
0.4µm	31.5mm	**PIHP 030 50**	285.50
3.0µm	12mm	**PITP 012 50**	254.50
8.0µm	12mm	**PI8P 012 50**	258.00
12.0µm	12mm	**PIXP 012 50**	253.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ BioCoat™ Control Insert

Use alongside BD BioCoat inserts when studying effects of the ECM component present on the BD BioCoat cell culture insert

08-774-155

Each lot tested and found negative for bacteria and fungi.

- Designed to closely mimic *in vivo* environments and enhance expression of cell-specific morphology
- Supplied with preapplied extracellular matrices, facilitating cell adaption to *in vitro* cultivation
- Microporous membranes permit diffusion of ions, low-molecular-weight proteins and other substances to both apical and basolateral cell surfaces
- Low pore-density, track-etched polyethylene teraphthalate (PET) membranes for convenient viewing of living cells with a phase-contrast microscope
- Have low-binding properties that minimize small molecule loss

ORDERING INFORMATION: Supplied in ready-to-use Falcon™ Companion Tissue Culture Plates.

STORAGE: Stable for at least 18 months after shipment when stored at room temperature. Do not freeze.

NOTES: These products are for research use only and are not intended for diagnostic purposes.

Cell Culture Inserts	Inserts Per Plate	No. of Plates	Mfr. No.	Cat. No.	Case of 24
With 0.4µm Pore Size					
6-well plate	6	4	354570	**08-774-152**	176.20
24-well plate	12	2	354572	**08-774-154**	141.40
With 1.0µm Pore Size					
6-well plate	6	4	354567	**08-774-155**	173.50
24-well plate	12	2	354569	**08-774-157**	130.50
With 3.0µm Pore Size					
6-well plate	6	4	354573	**08-774-158**	203.00
24-well plate	12	2	354575	**08-774-160**	141.40
With 8.0µm Pore Size					
6-well plate	6	4	354576	**08-774-161**	199.40
24-well plate	12	2	354578	**08-774-162**	132.10

Cell and Tissue Grinders

Fisherbrand® Pellet Pestle™

Resuspend protein and DNA pellets or grind soft tissue in microcentrifuge tubes

- RNase-, DNase-, pyrogen-free material (manufactured under M5.5 [Class 10,000] cleanroom conditions)
- Available with or without 100 microtubes
- Microtubes have the same properties and come individually wrapped to ensure purity
- Length of pestle with tip, 2.75" (7cm)

12-141-367

Description	Size	Cat. No.	Case of 100
Disposable Pellet with 100 Microtubes	0.5mL	**12-141-367**	131.40
Disposable Pellet without Microtubes	0.5mL	**12-141-363**	106.62
Microtubes, 0.5mL	0.5mL	**12-141-365**	34.46
Microtubes, 1.5mL	1.5mL	**12-141-366**	33.96

Fisherbrand® RNase-Free Disposable Pellet Pestles

Individually wrapped to ensure purity

- RNase, DNase and pyrogen-free
- Volume: 1.5mL

12-141-368

Description	Mfr. No.	Cat. No.	Each
Without tube	FS749521-1590	**12-141-364**	107.24
With tube	FS749520-0090	**12-141-368**	132.20

Fisherbrand® Pellet Pestle™ Cordless Motor

Produces more complete disaggregation than manual mixing

- Use with either the disposable or reusable Pellet Pestle Mixers
- Comes with two AA batteries

Motorized Pestle, Cordless

Description	Cat. No.	Each
Cordless Motor	**12-141-361**	124.80
Motor Adapter	**12-141-362**	13.84

Kimble-Chase Kontes™ Dounce Tissue Grinders

Designed for cellular work in which the nucleus remains intact after homogenization

All-glass construction.

ORDERING INFORMATION: Supplied with two pestles: large (for initial sample reduction) and small (to form the final homogenate)

K885300-0015

Working Capacity	Large Pestle Clearance	Small Pestle Clearance	Overall Length	Cat. No.	Each
2mL	0.12mm	0.06mm	60mm	**K885300-0002**	143.70
7mL	0.11mm	0.05mm	125mm	**K885300-0007**	125.70
15mL	0.16mm	0.07mm	157mm	**K885300-0015**	141.00
40mL	0.15mm	0.07mm	215mm	**K885300-0040**	162.90
100mL	0.25mm	0.14mm	232mm	**K885300-0100**	351.00

Kimble-Chase Kontes™ Duall™ Tissue Grinders

Combined conical and cylindrical surfaces improve grinding efficiency

- Can be motor driven
- Choose from all-ground glass style or smooth glass tube with PTFE pestle threaded to stainless-steel shaft
- Interchangeable tubes and pestles have 0.004 to 0.006" (0.10 to 0.15mm) clearance

K885450 Series

Working Capacity[1]	Tube Reservoir O.D. × L	Pestle Shaft O.D. × L	Cat. No.	Each
With Ground Glass Pestle and Tube				
1mL	13 × 80mm	6 × 155mm	**K885450-0020**	135.50
3mL	16 × 120mm	6 × 207mm	**K885450-0021**	134.00
5mL	18 × 150mm	8 × 220mm	**K885450-0022**	135.20
15mL	25 × 175mm	10 × 278mm	**K885450-0023**	154.20
30mL	32 × 215mm	10 × 310mm	**K885450-0024**	163.10
50mL	38 × 225mm	16 × 345mm	**K885450-0025**	208.50

Working Capacity[1]	Tube Reservoir O.D. × L	Pestle Shaft O.D. × L	Cat. No.	Each
With PTFE Pestle and Smooth Glass Tube				
1mL	13 × 80mm	4.5 × 155mm	**K885480-0020**	109.80
3mL	16 × 120mm	6 × 210mm	**K885480-0021**	109.30
5mL	18 × 150mm	6 × 228mm	**K885480-0022**	122.80
15mL	25 × 175mm	6 × 268mm	**K885480-0023**	139.70
30mL	32 × 215mm	10 × 305mm	**K885480-0024**	157.62

[1]*Approximate volume with pestle inserted.*

Roller Bottles - Specialty Surfaces

Thermo Scientific™ Nunc™ InVitro™ Roller Bottles; PETG

Excellent substrate for adherent cells

For laboratory and industrial scale applications including vaccines, cell culture expansion and the production of other biologics.

12-565-526

- Molded of durable, virtually unbreakable PETG offering the safest roller bottle solution on the market today
- Can be frozen down to -40°C, supports freeze thaw cell release methods, reducing reliance on trypsin
- Wide range of surface areas from 1050cm² to 4200cm², providing solutions for all scales
- Quick-action ergonomic closure reduces wrist strain and increases productivity
- Lot number on every bottle for full tracebility

Surface Area	Bottle Surface	Package	Mfr. No.	Cat. No.	Case of
1050cm²	Smooth Surface	5/sleeve, 20/case	1060-05	**12-565-526**	20/231.00
1050cm²	Smooth Surface	20/case	1060-20	**12-565-527**	20/216.43
1050cm²	Smooth Surface	5/sleeve, 20/case	1060-85	**12-575-120**	20/278.00
1700cm²	Pleated Surface	20/case	1760-20	**12-565-528**	20/393.00
1800cm²	Smooth Surface	22/case	1860-22	**12-565-529**	22/563.39
2100cm²	Pleated Surface	5/sleeve, 20/case	2160-05	**12-565-530**	20/499.86
2100cm²	Pleated Surface	20/case	2160-20	**12-565-531**	20/457.45
4200cm²	Pleated Surface	22/case	4260-22	**12-565-532**	22/1067.00

Thermo Scientific™ Nunc™ TufRol™ Roller Bottles, PS

For applications such as industrial scale production of vaccines, monoclonal antibodies and biotherapeutics provide reliability and reproducabilty necessary for all your cell growth needs

- One-piece seamless design: Reduces possibility of leaking through a seam
- Shallow and deep indents: Unique ergonomic design makes the roller bottle excellent for both manual and automated handling
- Proprietary manufacturing process: Greater impact resistance
- Vertical expanded surfaces version: Vertical pleat orientation facilitates emptying and reduces retention of product

TufRol Bottle

Cell Culture Area	Closure	Surface	Mfr. No.	Cat. No.	Case of 20
850cm²	Easy on/off, vented cap	Smooth surface	181702	**12-565-685**	197.50
850cm²	Easy on/off, non-vented cap	Smooth surface	182702	**12-565-686**	164.80
850cm²	Easy on/off, non-vented cap	Smooth surface	182720	**12-565-687**	185.50
850cm²	Easy on/off, non-vented cap	Smooth surface	182744	**12-565-688**	147.74
850cm²	EZ twist vented cap	Smooth surface, shallow indent	183302	**12-565-689**	208.82
850cm²	EZ twist vented cap	Smooth surface, deep indent	183902	**12-565-690**	214.00
850cm²	EZ twist non-vented cap	Smooth surface, shallow indent	184302	**12-565-691**	181.21
850cm²	EZ twist non-vented cap	Smooth surface, shallow indent	184344	**12-565-692**	160.39
850cm²	EZ twist non-vented cap	Smooth surface, deep indent	184902	**12-565-680**	178.90
850cm²	EZ twist non-vented cap	Smooth surface, deep indent	184920	**12-565-681**	149.90
850cm²	EZ twist non-vented cap	Smooth surface, deep indent	184944	**12-565-682**	160.39
1450cm²	Easy on/off, vented cap	Pleated surface	141744	**12-565-683**	254.50
1450cm²	Easy on/off, non-vented cap	Pleated surface	142720	**12-565-684**	267.00
1450cm2	Easy on/off, non-vented cap	Pleated surface	142744	**12-565-699**	265.95

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ Expanded-Surface Roller Bottles

Reduce the space required in roller racks and incubators

- Tissue-culture-treated to optimize cell attachment
- Virgin polystyrene
- Sterile
- Windows on two sides for easy pouring and microscopic viewing
- With vented or nonvented easy-grip caps and black printed graduations

06-415-8

ORDERING INFORMATION: Packaged 2 bottles per bag, 5 bottles per bag or 20 bottles per tray

CERTIFICATIONS: Certified nonpyrogenic

Surface Area	Cap Type	Packaging	Mfr. No.	Cat. No.	Case of
1700cm²	Easy-grip	2/bag	430852	**06-415-8**	40/696.00
1700cm²	Easy-grip	6/bag	430853	**06-415-10**	40/716.06
1700cm²	Easy-grip	20/bag	431135	**09-761-114**	20/345.50

Corning™ Disposable Roller Bottles

Made from optically clear virgin polystyrene and tissue culture-treated

06-41 Series

- Seamless, one-piece construction reduces the chance of damage from accidental drops
- Extra-large neck permits easy access to interior
- Ungraduated and comes with a plug seal cap
- Sterile

ORDERING INFORMATION: 490cm² size is ungraduated and comes with a plug seal cap; larger bottle features black printed graduations and easy-grip caps.

CERTIFICATIONS: Certified nonpyrogenic for consistent performance.

Surface Area	Capacity	Packaging	Mfr. No.	Cat. No.	Case of
490cm²	43.9 oz. (1300mL)	2/bag	430195	**06-413**	40/287.93
850cm²	74.3 oz. (2200mL)	2/bag	430849	**06-415-6**	40/406.52
850cm²	74.3 oz. (2200mL)	2/bag	431198	**06-443-8** †	40/488.00
850cm²	74.3 oz. (2200mL)	5/bag	430851	**06-415-7**	40/422.60
850cm²	74.3 oz. (2200mL)	22/bag	431321	**03-374-300**	44/403.01
850cm²	74.3 oz. (2200mL)	20/tray	431133	**09-761-113**	20/199.69
1750cm²	165 oz. (4900mL)	5/bag	430699	**06-415-3**	20/461.80

†*With vented cap.*

Corning™ Polystyrene Roller Bottles

Treated with patented Corning CellBIND™ surface treatment

- Easy Grip Vent Cap is designed for applications requiring consistent gas exchange; features large knurls designed for ergonomic handling
- Manufactured from virgin polystyrene
- Supplied with HDPE caps
- One-piece seamless construction with printed graduations; Neck O.D.: 48mm
- Printed lot numbers aid in product traceability
- Sterilized by gamma irradiation
- Smooth surface

08-757-210

COMPLIANCE: Meets the USP Class VI requirements for plastic containers and closures

CERTIFICATIONS: Certified nonpyrogenic

Surface Area	Cap Type	Packaging	Mfr. No.	Cat. No.	Case of
Smooth Surface					
850cm²	Easy Grip	2/bag	3907	**05-539-105**	40/996.50
850cm²	Easy Grip Vent	2/bag	431329	**08-757-210**	40/1041.00
Expanded Surface					
1700cm²	Easy Grip	20/tray	431134	**07-201-221**	20/855.50

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location. Visit **www.fishersci.com/movingon** to learn more.

results delivering solutions

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Centrifuges

Mini

Fisher Scientific™ Mini Plate Spinner Centrifuge

Specifically designed for quick and easy centrifugation of samples in PCR plates or microplates

- Speed: 2500rpm
- Capacity: two plates
- Plate Spinner may be used in a cold room

14-100-143

Description	Cat. No.	Each
120V	**14-100-143**	650.00
230V	**14-100-1431**	650.00
Adapter for PCR Strip Tubes	**14-100-142**	65.00

Fisherbrand® High-Speed Mini-Centrifuge

Ideal for most protocols calling for fast spins and quick spindowns

This compact centrifuge is efficiently designed for minimum benchtop space.

- Variable timer and speed settings
- Selectable digital display of speed in Xg and rpm
- Low noise and vibration
- Small footprint
- Quick spin or user-set rpm to prevent over compaction
- UV-resistant plastic

12-006-900

Description	Maximum Speed	Maximum RCF	Color	Electrical Requirements	Unit Measurement	Cat. No.	Price
High-Speed Mini-Centrifuge	12500rpm	9800 Xg	Gray	100-240VAC, 50/60Hz	203 × 171 × 114mm (7.99 × 6.73 × 4.48")	**12-006-900**	978.50

ACCESSORIES

Fisherbrand® High-Speed Mini-Centrifuge Replacement Parts

For use with Fisherbrand High-Speed Mini-Centrifuge (Cat. No. 12-006-900).

- Strip Tube Rotor (12-006-908): Tool-free quick change for 8-place strip rotor for four 0.2mL tube strips or 32 single tubes
- Standard Rotor (12-006-907): Tool-free quick change standard rotor holds 12 1.5/2.0mL tubes; also includes 12 0.5mL adapters for customized use

12-006-908

Description	Cat. No.	Each
Power Adapter	**12-006-905**	123.60
Universal Cord Set	**12-006-906**	61.80
Standard Rotor	**12-006-907**	75.20
Strip Tube Rotor	**12-006-908**	68.00
Rotor Knob	**12-006-909**	26.80
Rotor Cover	**12-006-910**	34.00

Fisherbrand® Standard Mini-Centrifuge

The Fisherbrand mini-centrifuge is ideal for microfilter cell separations and HPLC samples. Operation is now faster and easier and the ergonomically designed lid will fit in the palm of the hand for easy repeat opening and use.

- Features exclusive quick-release rotor for fast and easy changes
- Internal safety switch ensures unit will not operate without lid in place
- Removable cord for compact storage
- Max RCF: 2000G
- Maximum speed: 6000rpm

INCLUDES:

- Two easy change, tool-free rotors: Six-place standard rotor for 1.5/2mL tubes, eight-place strip rotor for two 0.2mL tube strips or 16 single tubes
- Six 0.2mL and six 0.5mL adapters for customized use
- Storage Case — Keeps rotors and adapters contained and dust-free
- Tube Rack — Convenient for handling samples before and after quick spins

Description	Maximum Speed	Cat. No.	Price
Standard Mini-Centrifuge	6000rpm	**12-006-901**	437.75

ACCESSORIES

Fisherbrand® Standard Mini-Centrifuge Replacement Parts

For use with Fisherbrand Standard Mini-Centrifuge (Cat. No. 12-006-901).

Description	Cat. No.	Price
Replacement O-Ring	**12-006-902**	1.33
Standard Circular Rotor	**12-006-903**	59.70
Strip Tube Rotor	**12-006-904**	59.70

Thermo Scientific™ Sorvall™ Legend™ 14 Personal Microcentrifuge

Compact personal centrifuge, an affordable solution for pharmaceutical, biotechnology and academic research applications

The Sorvall Legend 14 microcentrifuge excels in a wide range of applications including nucleic acid purification, PCR cleanup, plasmid mini-prep, protein processing and forensics. The microcentrifuge's fast spin-up/spin-down saves time and increases process efficiency.

Easy to Use

- Single-knob control sets and adjusts parameters quickly and conveniently
- Large LED display provides easy viewing of all parameters
- Single pre-installed plastic rotor cleans easily and is autoclavable and noncorroding
- Rotors and tubes can be inserted and removed with minimal effort

Delivers Maximum Productivity

- Operates at 14,500 × g
- Holds 12 microtubes from 0.5 to 2.0mL and supports smaller volumes with adapters
- Fast spinup/spindown saves time and increases user productivity

Compact and Quiet

- 76.5 sq. in. footprint — fits tight benchtop spaces
- Brushless maintenance-free motor runs very quietly and delivers years of dependable service
- Exceptionally quiet; allows users to work without distraction

INCLUDES:
Autoclavable, corrosion-resistant plastic rotor

11-210-807

COMPLIANCE:
Manufactured and tested in accordance with EN 61 010-1, EN 61 010-2-020, EN 50 081-1, EN 50 082-1

CERTIFICATIONS:
CE marked, UL listed

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Sorvall Legend 14 Microcentrifuge	120V 60Hz	11210807	**11-210-807**	1477.00

Separation Technology, Inc. Micro 12™ High Performance Microcentrifuge

Perfect for small volume separations

Very quiet and simple to use.

- Brushless motor – maintenance free
- Exceptionally quiet
- Extremely small footprint
- High maximum speed (14,000rpm/16,000 × g)
- Unique airflow patterns keeps samples cool
- Cold room compatible
- 18 × 1.5/2.0mL rotor

INCLUDES:
18-place rotor, snap-on lid

23-550-103

Description	Max. Speed	Mfr. No.	Cat. No.	Each
Micro 12	14,000	100-152	**23-550-103**	1525.00

ACCESSORIES

Separation Technology, Inc. Micro12™ Centrifuge Tube Adapters

For use with Micro12 centrifuge

23-550 Series

Description	Mfr. No.	Cat. No.	Pack of 6
0.2mL thermal cycling tubes	230-119	**23-550-119**	63.10
0.5 and 0.6mL tubes	230-121	**23-550-121**	63.10

Before You Buy **Microcentrifuges**

eppendorf

Features To Look For

Eppendorf centrifuges are designed to go beyond speed and capacity to offer you unparalleled ergonomic operation and superior temperature management. You will experience enhanced performance in their use.

In addition, with their outstanding quality, Eppendorf microcentrifuges provide you a safe and cost efficient solution for your lab.

Safety Features

Compliance to IEC 1010-2-020 — This safety regulation provides assurance that the centrifuge has been designed and tested to protect users in the event of a rotor crash.

Certified Aerosol-tight Rotor Containments — For work with hazardous samples (e.g., blood, viruses, bacteria, radioactive samples). Ensures that particles are contained inside the rotor in case a tube breaks or leaks. Select fixed-angle rotors with metal lids to ensure the lid doesn't break from torn-off tube pieces.

Comfort and Protection

Ergonomic features that make your life easier:

- Find a centrifuge with low noise levels to benefit your work environment
- Centrifuge lids with soft-touch lid closures for stress-free lid locking
- Consider a low-profile design for easy loading and unloading of the rotor
- Large digital displays will make it easier to read the values and allow for accurate, unambiguous parameter settings.

Superior temperature management to protect your samples:

- Make sure the centrifuge has the ability to maintain constant 4°C with all rotor options at maximum speed to maintain constant 4°C with all rotor options at maximum speed
- Choose metal rotors for fast precooling and improved temperature accuracy
- A FastTemp software option allows for fast pre-cooling of the rotor down to 4°C
- Consider a centrifuge with ECO shut-off functionality that will deactivate the compressor to save energy and extend compressor life
- A built in condensation drain helps to eliminate water accumulation and prevent corrosion

	MINISPIN/ MINISPIN PLUS	5418/ 5418R	5424/ 5424R	5427R	5430/ 5430R
Max. RCF (x g)	12,100/14,100	16,873	21,130	25,000	30,130
CAPACITY					
0.5/1.5/2mL Eppendorf Tubes	12	18[2]	24	48	48
PCR Strips	2	----	4	8	8
5.0 mL	----	----	----	12	16
15/50mL Conical	----	----	----	----	6
MTP/PCR plates	----	----	----	----	2

Micro

Fisher Scientific™ accuSpin™ Micro 17/ Micro 17R Microcentrifuges

Compact, economical high-speed microcentrifuges, ideal for nucleic acid research and other microliter volume separations

- Capacity: 48mL (24 × 1.5/2.0mL tubes)
- Maximum speed/RCF: 13,300rpm/17,000 × G
- Ventilated or refrigerated models
- Easy-to-use controls with digital display
- Adjustable 99 minute timer and quick-spin feature for short runs
- Memory retains last setting for repeatable runs

13-100-676, 13-100-675

Micro 17

- Ventilated

Micro 17R

- Refrigerated
- Temperature range -9° to +40°C

INCLUDES:
Rotor and biocontainment lid

WARRANTY:
One year, parts and labor

Description	Micro 17	Micro 17R
Model	Ventilated	Refrigerated
Dimensions	9.625L × 8.875W × 13.75"H (24.3 × 22.5 × 35.2cm)	11.625L × 12.876W × 17.5"H (29.5 × 33 × 44.5cm)
120V 60Hz		
Cat. No.	**13-100-675**	**13-100-676**
Each	1961.00	5420.00

ACCESSORIES

Fisher Scientific™ accuSpin™ Micro 17/ Micro 17R Microcentrifuges Replacement Parts

Description	Cat. No.	Price
24 × 1.5/2.0ml Replacement Rotor	**05-375-109**	Ea./759.78
ClickSeal Replacement Lid	**05-375-107**	Ea./314.26
24 adapters for 0.6/0.5mL microtubes	**76-003-758**	Pk. of 24/226.67
24 adapters for 0.4/0.25mL microtubes	**76-003-759**	Pk. of 24/229.00
24 adapters for 0.2mL microtubes	**76-003-750**	Pk. of 24/234.32

Thermo Scientific™ Sorvall™ Legend™ Micro 17 and 21 Microcentrifuge Series

Powerful units deliver exceptional capacity, performance and safety in a compact, user-friendly design

75-002-436

From the intuitive controls, to the innovative Thermo Scientific ClickSeal™ biocontainment lid, the microcentrifuges deliver the perfect blend of capabilities to support your micro-volume protocols such as nucleic acid or protein lysate preparation and PCR reaction set-up — all in a remarkably small footprint.

- Exceptional acceleration up to 21,000 × g in 12 seconds
- Refrigerated versions offer cooling in just 9 minutes
- New PPSU lids have improved strength and chemical resistance
- Intuitive controls and easy to read display simplifies operation

Rotor Portfolio:

Select from one of three standard rotor configurations:

- 24 × 1.5/2.0mL rotor with ClickSeal Biocontainment Lid certified by CAMR
- Dual-Row rotor 18 × 2.0 /0.5mL with screw-on lid
- Hematocrit rotor

ORDERING INFORMATION:
Biocontainment, hematocrit, PCR and dual-row rotors, lids and tube adapters are available separately.

COMPLIANCE: IEC 61010-1, IEC 61010-2, IEC 61010-020

CERTIFICATIONS: CSA certified, CE marked, IVD compliant, Certified Biosafety

Model	Type	Includes Rotor(s)	Electrical Requirements	Mfr. No.	Cat. No.	Each
Sorvall Legend Micro 17	Nonrefrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid	120V 60Hz	75002431	**75-002-431**	2190.00
Sorvall Legend Micro 21	Nonrefrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid	120V 60Hz	75002436	**75-002-436**	2620.00
Sorvall Legend Micro 17R	Refrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid	120V 60Hz	75002441	**75-002-441**	5980.00
Sorvall Legend Micro 21R	Refrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid	120V 60Hz	75002446	**75-002-446**	6530.00
Sorvall Legend Micro 21	Nonrefrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid and 18 × 0.5mL/18 × 2.0mL Dual-row Rotor with Screw-on Lid	230V 60Hz	75002487	**75-002-487**	2940.00
Sorvall Legend Micro 21	Nonrefrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid and 18 × 0.5mL/18 × 2.0mL Dual-row Rotor with Screw-on Lid	120V 60Hz	75002488	**75-002-488**	2940.00
Sorvall Legend Micro 21R	Refrigerated	24 × 1.5/2.0mL Rotor with ClickSeal Biocontainment Lid and 18 × 0.5mL/18 × 2.0mL Dual-row Rotor with Screw-on Lid	120V 60Hz	75002490	**75-002-490**	6940.00
Sorvall Legend Micro 17	Nonrefrigerated	Hematocrit Rotor	120V 60Hz	75002494	**75-002-494**	2290.00

ACCESSORIES

Thermo Scientific™ 18 × 2.0/0.5mL Dual Row Rotor with Screw-On Lid

Accommodates two-tube volumes in a single unique configuration

Screw-on lid eliminates need for adapters, adds convenience and facilitates operation.

- Capacity: 18 × 2.0/5.0mL
- Max. Speed/RCF: 20,800rpm/14,800 × g
- Fits Models: Thermo Scientific Micro 21/21R Microcentrifuge series

05-375-154

ORDERING INFORMATION:
Replacement lids sold separately; order rotor body (05-375-154) and components to complete assembly. For replacement lids order 75003406. Contact your Sales Representative for information.

Description	Mfr. No.	Cat. No.	Each
Dual Row Rotor	75003418	**05-375-154**	824.72

Thermo Scientific™ PCR 4 × 8 Rotor with ClickSeal™ Biocontainment Lid

Holds four 8-place PCR strips or 32 PCR tubes

- Capacity: 32 × 0.2mL
- Max. Speed/RCF: 14,800rpm/16,200 × g
- Fits Models: Thermo Scientific Micro 21/21R Microcentrifuge series

05-375-157

ORDERING INFORMATION:
Replacement lids sold separately; order rotor body (05-375-157) and components to complete assembly. For replacement lids order (75003410). Contact your Sales Representative for information.

CERTIFICATIONS:
Biocontainment Certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Each
PCR 4 × 8 Rotor	75003440	**05-375-157**	880.50

Thermo Scientific™ 36 × 0.5mL Rotor with Screw-On Lid

Holds 0.5mL microtubes or PCR tubes

- Capacity: 36 × 0.5mL
- Max Speed/RCF: 14,800rpm/19,300 × g
- Maximizes processing throughput and eliminates wait time
- Fits Models: Thermo Scientific Micro 21/21R Microcentrifuge series

75-003-436

ORDERING INFORMATION:
Replacement lids sold separately; order rotor body (75-003-436) and components to complete assembly. For replacement lids order 75003406. Contact your Sales Representative for information.

Description	Mfr. No.	Cat. No.	Each
36 × 0.5mL Rotor	75003436	**75-003-436**	927.51

Thermo Scientific™ PCR 8 × 8 Rotor with Screw-On-Lid

Accommodates eight 8-place PCR strips or 64 PCR tubes

The rotor increases throughput and accelerates research.

- Capacity: 64 × 0.2mL
- Max. Speed/RCF: 14,800rpm/17,100 × g
- Fits Models: Thermo Scientific Micro 21/21R Microcentrifuge series

05-375-156

ORDERING INFORMATION:
Replacement lids sold separately; order rotor body (05-375-156) and components to complete assembly. For replacement lids order 75003406. Contact your Sales Representative for information.

Description	Mfr. No.	Cat. No.	Each
PCR 8 × 8 Rotor	75003489	**05-375-156**	954.50

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Eppendorf™ Model 5418 Microcentrifuges

Compact and economical microcentrifuges feature a certified aerosol-tight rotor (included) and a unique, contoured rotor bowl designed to reduce noise

05-403-90

- Capacity: 36mL (18 × 1.5/2.0mL)
- Maximum speed/RCF: 14,000rpm/16,813 × g
- Five-digit digital speed display
- Timer: 1 min. to 9 hr., 59 min., plus HOLD for continuous run
- Innovative lid design with automatic opening at end of run for quick sample removal
- Automatic one-button rcf/rpm converter

ORDERING INFORMATION:
Dimensions: 11.375 × 7.75 × 7.75" (29 × 20 × 20cm).
Net weight: 17 lb. (7.7kg).

INCLUDES:
Unit and rotor

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Ventilated	120V 60Hz	022620304	**05-403-90**	2341.50
Ventilated	230V 50Hz	022620321	**05-403-91**	2341.50

ACCESSORIES

Eppendorf™ 5418 Centrifuge 18-Place Fixed-Angle Rotor

As supplied with Eppendorf Model 5418 Microcentrifuge

- Capacity: 18 × 1.5/2.0mL tubes
- Max. speed/RCF: 14,000rpm/16,813 × g

INCLUDES:
Rotor and lid

05-400-400

Mfr. No.	Cat. No.	Each
022652061	**05-400-400**	836.97

Eppendorf™ 5424 Microcentrifuges

Compact microcentrifuges provide silence, speed and simplicity

05-400-005

Optional rotors accommodate microcentrifuge tubes, miniprep spin columns and PCR tubes.

- Capacity: 48mL (24 × 1.5/2.0mL)
- Max. speed/RCF: 15,000rpm/21,130 × g
- Full digital speed display
- Variable speed control from 100 to 15,000rpm in 100rpm increments
- Timer: 30 sec. to 9 hr. 59 min. with HOLD for continuous run
- Soft brake protects delicate samples
- Short-spin is programmable to desired rpm setting
- Equipped with 24 × 1.5/2.0mL certified aerosol-tight rotor and lid

ORDERING INFORMATION:
Dimensions: 12.675L × 9.25W × 8.875"H (32 × 23.6 × 22.7cm);
Net weight: 29.5 lb. (13.4kg).

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Model 5424 (Ventilated)				
With Rotor, Keypad	120V 60Hz	022620444	**05-400-005**	3087.00
With Rotor, Knob	120V 60Hz	022620401	**05-403-92**	3087.00
With Rotor, Keypad	230V 50Hz	022620461	**05-400-002**	3087.00
With Rotor, Knob	230V 50Hz	022620428	**05-403-93**	3087.00
Without Rotor, Keypad	120V 60Hz	022620498	**05-400-007**	2761.50
Without Rotor, Knob	120V 60Hz	022620487	**05-400-006**	2761.50

ACCESSORIES

Eppendorf™ Model 5424 Microcentrifuge Rotors and Lids

Coated 24-place Rotor 05-400-010

- Same as 05-400-008, but with coating that improves chemical resistance and makes rotor easier to clean
- Supplied with aerosol-tight coated lid (05-400-011)

18-place Miniprep Spin Column Rotor

- Deep lip design supports open microtube lids
- Capacity: 18 × 1.5/2.0mL tubes
- Max.RCF: 18,111 × G
- Supplied with lid 05-400-013

4-position PCR Strip Rotor (04-400-014)

- Quickly knocks down liquids and properly supports thinwall PCR tubes
- Capacity: 4 × 8-place PCR tube strips
- Max. RCF: 18,615 × G

04-400-014

INCLUDES:
Rotor and lid (all models except PCR Strip Rotor, which is rotor-only)

Description	Mfr. No.	Cat. No.	Each
Rotors			
24-place Coated Rotor w/Lid	022653041	**05-400-010**	1179.85
18-place Miniprep Spin Column Rotor w/Lid	022653083	**05-400-012**	830.48
4 × 8 PCR Strip Rotor	022653121	**05-400-014**	798.30
Replacement Lids			
For 05-400-10	022653067	**05-400-011**	298.22

Eppendorf™ Model 5430/5430R Microcentrifuges

Unique crossover model combines microcentrifuge capability with sophisticated features and controls

Spins micro, PCR and cryogenic tubes like a microcentrifuge. Handles microplates and conical tubes like a larger centrifuge. Eight rotor options make this a versatile performer in the lab or coldroom.

- Capacity: 300mL (6 × 50mL), 60mL (30 × 2.0mL), or 2 × microplates
- Max. speed/RCF: 17,500rpm/30,130 × G
- Menu-driven operation with large backlit LCD display
- Variable speed control from 100 to 17,500rpm in 100rpm increments
- Timer: 30 sec. to 99 hr. 59 min. with HOLD for continuous run
- 50-program memory with 5 keys for one-touch recall of routine programs
- Selectable menu language (English, French, Spanish or German)
- "At-Spin" functions, adjustable end-of-run alarm, adjustable SHORT-SPIN, speed parameter lock
- Compact footprint

Eppendorf 5430/5430R Microcentrifuges

Safety Features

- Automatic rotor recognition with speed limitation
- Load imbalance detection
- One-finger lid closure
- Soft brake function to protect delicate samples

ORDERING INFORMATION:
Dimensions: 16.8L × 13.2W × 10"H (42 × 33 × 25cm);
Net weight: 63.8 lb. (29kg). Most models supplied with a rotor; other rotors are available separately.

Description	Control	Electrical Requirements	Mfr. No.	Cat. No.	Each
Model 5340 (Ventilated)					
With 30 × 1.5/2.0mL Aerosol-tight Rotor	Keypad	120V 60Hz	022620509	**05-403-94**	4935.00
With 30x1.5/2.0mL Aerosol-tight QuickLock Rotor	Knob	120V 60Hz	022620511	**13-690-000**	4935.00
With 24x Spin Column Kit Aerosol-tight QuickLock Rotor	Keypad	120V 60Hz	022620541	**05-400-016**	5145.00
With 24 × Spin Column Kit Aerosol-tight Rotor	Knob	120V 60Hz	022620557	**13-690-002**	5145.00
With 2-Place Microplate Rotor	Keypad	120V 60Hz	022620568	**05-400-017**	5859.00
With 2-Place Microplate Rotor	Knob	120V 60Hz	022620572	**13-690-003**	5859.00
Without Rotor	Keypad	120V 60Hz	022620584	**05-400-018**	4011.00
Without Rotor	Knob	120V 60Hz	022620596	**13-690-004**	4011.00
Model 5340R (Refrigerated)					
With 30 × 1.5/2.0mL Fixed-angle Aero-tight Rotor	Keypad	120V 60Hz	022620601	**13-690-005**	9586.50
With 30 × 1.5/2.0mL Fixed-angle Aero-tight Rotor	Knob	120V 60Hz	022620623	**13-690-010**	9586.50
With 2-place Microplate Swinging Bucket Rotor	Keypad	120V 60Hz	022620645	**13-690-007**	10,269.00
With 2-place Microplate Swinging Bucket Rotor	Knob	120V 60Hz	022620656	**13-690-012**	10,269.00
Without Rotor	Keypad	120V 60Hz	022620667	**13-690-008**	8547.00
Without Rotor	Knob	120V 60Hz	022620689	**13-690-013**	8547.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

Rotors

For use with Eppendorf™ Model 5430 Microcentrifuges

Aerosol-tight rotors (05-401-503, 05-400-023 and 05-401-505) feature a distinct red rotor lid screw and red ring inside the rotor for easy identification.

05-401-503

Standard 30-place Rotors

- Capacity: 30 × 1.5/2.0mL
- Molecular-grade
- Max. Speed/RCF: 14,000rpm/20,8170 × G
- Available with aerosol-tight lid for use with hazardous samples (05-401-503), or with plastic lid for basic applications (05-400-019)
- PTFE-coated for high chemical resistance and easy cleaning

24-place High-speed Fixed-angle Rotor

- PTFE-coated for high chemical resistance and easy cleaning
- Capacity: 24 × 1.5/2.0mL tubes
- Max. Speed/RCF: 17,500rpm/30,1300 × G
- Includes aerosol-tight lid for hazardous sample work
- Check tube stability before use; Eppendorf 1.5mL Flex-Tube™ or Safe-Lock™ Tubes recommended

2-place Swinging Bucket Microplate Rotor

- Safely spins two standard microplates
- Max. Speed/RCF: 4680rpm/22,040 × G
- Loading height of 29mm is suitable for all types of MTP or PCR plates
- Windshielded design and drop-on lid ensure virtually silent centrifugation

15mL/50mL Conical Tube Rotor

- Capacity: 6 × 15mL or 6 × 50mL conical tubes
- Max. Speed/RCF: 7830rpm/71,970 × G
- Adapters for 15 and 50mL conical tubes included
- 50mL adapter also accommodates 50mL skirted conical tubes

24-place Spin Column Kit Rotor

- Capacity: 24 × spin columns or 24 × 1.5/2.0mL tubes
- Max. Speed/RCF: 13,200rpm/19,090 × G
- Unique high rim design supports open tube lids during centrifugation; lids will not tear off
- Aerosol-tight lid for hazardous samples

05-400-019

PCR Strip Rotor

- Capacity: 8 × 8 PCR tube strips or 64 × 0.2mL PCR tubes
- Max. Speed/RCF: 11,800rpm/13,5480 × G
- Includes removable adapters that can be used as a tube rack for pipetting

Cryotube Rotor

- Ideal for tissue culture labs that need to spin down samples before cryo conservation
- Accepts up to 18 cryo vials
- Max. Speed/RCF: 8900rpm/83,200 × G
- Includes adapters to accommodate tubes with 16.9 or 13.4mm diameter

INCLUDES:
Lid (see details for type)

CERTIFICATIONS:
Aerosol-tight rotors are tested and certified by the Health Protection Agency (Porton Down, UK).

Rotor Type	Max. Capacity	Lid Type	Max. Speed	Max. RCF	Mfr. No.	Cat. No.	Each
FA-45-30-11 (Fixed-Angle)	30 × 1.5/2.0mL Tubes	Aerosol-tight screw-on	14,000rpm	20,8170 × G	022654047	**05-401-503**	1081.42
F-45-30-11 (Fixed-Angle)	30 × 1.5/2.0mL Tubes	Screw-on	14,000rpm	20,8170 × G	022654004	**05-400-019**	770.87
FA-45-24-11-HS (Fixed-Angle, high-speed)	24 × 1.5/2.0mL Tubes	Aerosol-tight screw-on	17,500rpm	30,1300 × G	022654080	**05-400-023**	1096.46
A-2-MTP (Swinging Bucket Microplate)	2 × Microplates	Drop-on	4680rpm	22,040 × G	022654403	**05-401-517**	1943.26
F-35-6-30 (Fixed-Angle, High volume, 15/50mL)	6 × 15/50mL Conical Tubes	Screw-on	7830rpm	71,970 × G	022654306	**05-401-512**	2031.09
FA-45-24-11-Kit (Fixed-Angle)	24 × Spin Columns or 1.5/2.0mL tubes	Aerosol-tight screw-on	13,200rpm	19,0900 × G	022654128	**05-401-505**	1240.74
F-45-64-5-PCR (Fixed-Angle)	8 × 8 PCR Tube Strips or 64 × 0.2mL PCR Tubes	Screw-on	11,800rpm	13,5480 × G	022654209	**05-401-509**	1196.70
F-45-18-17-Cryo (Fixed-Angle)	18 × Cryotubes	Screw-on	8900rpm	83,200 × G	022654161	**05-401-507**	780.58

Additional adapters for rotor 05-401-512 available. Adapters for rotors 05-401-512 (For 15 and 50mL conical tubes), 05-401-509 (PCR strip), and 05-401-507 (Cryo tubes O.D. 13.4mm) are included.

Clinical

Thermo Scientific™ Sorvall™ Stratos Centrifuge Series

Deliver superspeed performance and flexibility

CFC-free refrigeration system is ideal for temperature-sensitive samples. A wide selection of accessory biocontainment rotors enhances instrument versatility.

Fast, Efficient Separations

- Spindle drive technology delivers rapid acceleration and quick braking to speed throughput and extend instrument life
- Quiet operation
- High g-forces for faster separations over a wider range of applications
- Dual lid-locking for improved safety

Continuous Imbalance Tolerance Protects Samples

- Indentifies improper rotor installation to protect drive
- Detects excessive speed and signals maximum permissible value for rotor
- Allows eye balancing of tubes to speed sample preparation
- Smart, intuitive controls
- Easy-control panel is intuitive and simple to navigate
- Stores nine programs for most-used run parameters
- Pre-temp program for rapid cooling

Sorvall Stratos Refrigerated

- Capacity: 4 × 180mL
- Max. Speed: 22,000rpm (23,300rpm for 208V/230V models)
- Max. RCF: 44,910 × G (50,377 × G for 208V/230V models)

Sorvall Stratos Continuous-Flow

- For processing large sample volumes rapidly and reliably in a single run
- Quickly separates large volumes of suspension with high yields
- Ideal for plant/animal/bacteria cell harvesting, protein precipitation, cell enrichment, vaccine production, sediment extraction from water samples
- Polypropylene insert (75015339) improves sedimentation for small- or low-density particles
- Capacity: 300mL (sediment); 50mL with insert
- Max. Speed: 17,000rpm
- Max. RCF: 25,040 × G
- Max. Flowrate: 54L/hr.

- **Note:** Peristaltic pump with flow range 100 to 900mL/min. is recommended for use; Pump Head 77200-60 and Pump Drive 7523-60 are available separately
- Accessory cart (76000083) can be used to create a portable centrifugation station

75-005-293

ORDERING INFORMATION:
Accessories, including fixed-angle, bucket and microplate rotors and adapters, are sold separately; all rotors are designed to provide biocontainment protection.

REQUIRES:
Rotor (sold separately)

CERTIFICATIONS:
CE, CSA

Max. Force Range	Max. Speed	Electrical Requirements	Cat. No.	Each
40,000 to 49,999 × G	22,000rpm	120V 50/60Hz	**75-005-293**	17,060.00
50,000 to 59,999 × G	23,300rpm	208V 50/60Hz	**75-005-294**	17,060.00
50,000 to 59,999 × G	23,300rpm	230V 50/60Hz	**75-005-289**	17,060.00
25,000 to 25,999 × G	23,300rpm	230V 50/60Hz	**75-005-297**	18,760.00

ACCESSORIES

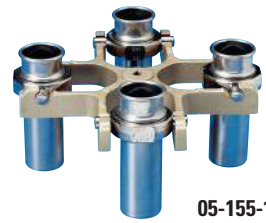
Thermo Scientific™ Four-Place Trunnion-Type Centrifuge Rotor System

4 × 50mL capacity

- For use with: Models HN-SII, CL3/-CL3R and CL2
- Accepts 4 × 50mL Falcon™/Corning™ conical tubes
- Rotor also fits older models MP4/-MPR4, CL4, -4B, -HN, Clinical, HN-S, HN, H

INCLUDES:
4-Place rotor, trunnion rings, shields and cushions

REQUIRES: 509680F Shaft Adapter needed to use with CL3/-CL3R (sold separately)



05-155-15

Description	Mfr. No.	Cat. No.	Each
Four-Place Trunnion-Type Centrifuge Rotor System	521510F	**05-155-15**	1167.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ACCESSORIES

Thermo Scientific™ TX-100 Swinging Bucket Clinical Rotor

Efficient processing of up to 16 x 5/7mL blood collection tubes

Dedicated for routine clinical processing, spin up to 16 blood collection tubes per run.

Secure, push-button Auto-Lock rotor exchange in less than three seconds delivers:

- Trouble-free rotor installation and removal:
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory

APPLICATIONS:
Clinical Chemistry, Hematology, Immunology and Clinical Studies

ORDERING INFORMATION:
Includes unsealed carriers. Adapters are sold separately. Contact your sales representative for more information.

75005705

Model	For use with	Mfr. No.	Cat. No.	Each
TX-100 Clinical Rotor	Thermo Scientific Sorvall ST 8, Heraeus Megafuge 8 and SL 8 centrifuges	75005705	**75005705**	1538.00

Thermo Scientific™ TX-100S Swinging Bucket Clinical Rotor

Efficient clinical processing of up to 8 x 5/7mL blood collection tubes

Dedicated for routine clinical processing with individual screw-on biocontainment caps.

Secure, push-button Auto-Lock rotor exchange in less than three seconds delivers:

- Trouble-free rotor installation and removal:
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory

APPLICATIONS:
Clinical Chemistry, Hematology, Immunology and Clinical Studies

ORDERING INFORMATION:
Includes sealed carriers. Adapters are sold separately. Contact your sales representative for more information.

75005704

Model	For use with	Mfr. No.	Cat. No.	Each
TX-100S Clinical Rotor	Thermo Scientific Sorvall ST 8, Heraeus Megafuge 8 and SL 8 centrifuges	75005704	**75005704**	1692.00

Thermo Scientific™ F-G1 Fixed-Angle Rotor

For use with Thermo Scientific CL10 centrifuge

- Capacity: 6 × 50mL (0.3L)
- Maximum Speed/RCF: 5000rpm/3661 × G
- Fits Model: Thermo Scientific CL10 centrifuge series

05-376-237

Description	Mfr. No.	Cat. No.	Each
F-G1 Fixed-Angle Rotor	11210018	**05-376-237**	701.00

Thermo Scientific™ F-G3 Fixed Angle Rotor

For use with Thermo Scientific CL10 centrifuge

- Capacity: 24 × 15mL (3.6L)
- Maximum Speed/RCF: 4000rpm/2380 × G
- Fits Model: Thermo Scientific CL10 centrifuge series

INCLUDES:
Includes 24 buckets

05-376-244

Description	Mfr. No.	Cat. No.	Each
F-G3 Fixed Angle Rotor	11210019	**05-376-244**	539.50

ACCESSORIES

Thermo Scientific™ Six-Place Trunnion-Type Centrifuge Rotor System, 6 × 15mL Capacity 6-Place Rotor System

6 × 15mL capacity

- For use with: Model HN-SII, CL3/-CL3R, and CL2
- Accepts 15mL Falcon™/Corning™ conical tubes or other tubes measuring up to 17 O.D. × 127mm long
- Rotor can also be used in older models MP4/-MP4R, CL4, -4B, -HN, Clinical, HN-S, HN, H

05-155-18

INCLUDES: Rotor, open shields and cushions

REQUIRES:
509680F Shaft Adapter needed to use with CL3/-CL3R (sold separately)

Description	Mfr. No.	Cat. No.	Each
Six-Place Trunnion-Type Centrifuge Rotor System	522120F	**05-155-18**	1024.00

Thermo Scientific™ Six-Place Fixed-Angle Centrifuge Rotor System

6 × 50mL capacity

- For use with: CL3/-CL3R†, HN-SII, and CL2 centrifuges
- Angle: 45° Accepts: 6 × 50mL Falcon™/Corning™ conical tubes or other tubes measuring 30 dia. × 133mm long
- Can also be used in older models MP4/-MP4R, CL4, -4B, -4, -HN, HN-S, HN, H and Clinical

05-155-19

INCLUDES: Rotor, six shields and cushions

REQUIRES: 509680F Shaft Adapter needed to use with CL3/-CL3R (sold separately)

Description	Mfr. No.	Cat. No.	Each
Six-Place Fixed-Angle Centrifuge Rotor System	58012F	**05-155-19**	1087.00

Thermo Scientific™ 12-Place Fixed-Angle Centrifuge Rotor System, 12 × 15mL

12 × 15mL capacity

- For use with: CL3/-CL3R, HN-SII and CL2 centrifuges
- Angle: 45°
- Accepts: 15mL Falcon™/Corning™ conical tubes or Millipore™ Centricon™ filtration devices
- Also fits older models MP4/-MP4R, CL4, -4B, -4, -HN, HN-S, HN, H and Clinical

Description	Mfr. No.	Cat. No.	Each
12-Place Fixed-Angle Centrifuge Rotor System	003356	**05-155-20**	1309.00

INCLUDES: Rotor, 12 shields and cushions

REQUIRES: 509680F Shaft Adapter needed to use with CL3/-CL3R (sold separately)

05-155-20

Separation Technology HemataSTAT II™ Microhematocrit Centrifuge

Quantitative hematocrit results in 60 seconds

- CLIA Complexity: Waived
- Small, lightweight
- Whisper-quiet operation
- Built-in digital tube reader with LCD display in English, French, German, Italian or Spanish
- Just pennies per test to operate
- Uses standard capillary tubes — glass and plastic 0.5 and 1.1mm I.D.
- Accuracy comparable to NCCLS reference method
- Lid-locking mechanism
- Aerosol protection
- Built-in tachometer
- Optional rechargeable battery
- Clear, disposable tube holders for safe and easy cleanup in case of sealant blowout

INCLUDES:
Six-place rotor

Display	With Rotor	Mfr. No.	Cat. No.	Each
English, French, German, Italian or Spanish	6-place rotor	100-100	**23-550-100**	2220.00

23-550-100

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Separation Technology, Inc.™ HemataCHEK™ Hematocrit Control

Ideal for use with HemataSTAT™ and other microhematocrit centrifuges

- Assayed for HemataSTAT II and other microhematocrit centrifuges
- Comes in low, normal and high levels

ORDERING INFORMATION:
Box of 6 vials; 2.5mL per vial.

STORAGE:
No refrigeration required, 2-year shelf life, 31-day open vial stability

23-550-106

Level(s)	Mfr. No.	Cat. No.	Each
Low	300-105	**23-550-109**	105.30
Low/Normal	300-103	**23-550-107**	105.30
Normal	300-101	**23-550-105**	104.20
Normal/High	300-104	**23-550-108**	104.47
High	300-107	**23-550-110**	105.30
Tri-level	300-102	**23-550-106**	105.30

ACCESSORIES

Separation Technology, Inc. Rechargeable Battery

Optional battery pack provides convenience for field use, blood bank mobiles and point of care

- Battery pack is charged overnight or an equivalent period of time to obtain maximum capacity
- LCD shows percentage of remaining battery pack capacity and warns of low battery

Mfr. No.	Cat. No.	Each
280-104	**23-550-104**	167.89

Separation Technology, Inc. Disposable Tube Holders

For use with HemataSTAT™ or Creamatocrit Plus™ centrifuges

23-550-111

- Clear, disposable tube holders

Clinical Application[s]	Mfr. No.	Cat. No.	Pack of 50
Phlebotomy	230-100	**23-550-111**	43.50

Separation Technology, Inc. HemataSEAL™ Tube Sealant

Clay-based sealant maintains excellent retention during centrifugation

- Nontoxic, nonhardening, nondrying
- Light color provides a sharp contrast line with blood for easy reading
- Each plastic tray has 24 numbered positions for sample identification
- One tray seals approximately one vial of tubes
- Seals glass and plastic tubes

ORDERING INFORMATION:
Box of 10 trays.

23-550-112

Mfr. No.	Cat. No.	Pack of 10
260-100	**23-550-112**	62.60

Separation Technology, Inc. ClearCRIT™ Plastic Capillary Tubes

For use with standard microhematocrit centrifuges, including HemataSTAT

- 100% plastic heparinized tubes eliminate risk of infectious disease transmitted by blood via broken glass

ORDERING INFORMATION:
5 vials per package (200 tubes per vial).

23-550-114

Size	Mfr. No.	Cat. No.	Pack of 5 Vials
0.5 I.D. × 75mm L	270-107	**23-550-115**	144.50
1.1 I.D. × 75mm L	270-106	**23-550-114**	144.50

Separation Technology, Inc. ClearCRIT™ Capillary Tubes

Mylar™ wrapped glass tubes offer an added layer of safety without compromising accuracy

23-550-117

Size	Mfr. No.	Cat. No.	Pack of 5 Vials
1.1 I.D. × 75mm L	270-108	**23-550-116**	172.30
1.1 I.D. × 75mm L, self-sealing	270-109	**23-550-117**	18.99

Separation Technology, Inc. PlasmaPrep™ Centrifuge Tube Holders

For use with PlasmaPrep centrifuge

- For 2, 3, 5, 7 and 10mL tubes

For Tube Size(s)	Mfr. No.	Cat. No.	Pack of 25
10.25 × 64mm (3mL) w/ rubber stopper top	230-111	**23-550-123**	160.50
13 × 75mm (5mL) w/ plastic top	230-113	**23-550-125**	160.50
13 × 100mm (7mL) w/ plastic top	230-115	**23-550-127**	160.50

Separation Technology, Inc. SlidePrep Plus™ Cytology Centrifuge

For thin-layer cell preparation

- Removable sealed rotor (included)
- Processes up to six specimens at one time
- Digital controls with LCD display
- Programmable preset buttons

10-040-0

Audible alarms:

- Signals the SlidePrep Plus is out of balance
- Alarm reminds users at one-minute intervals to remove specimens to protect them from air-drying and ensure consistent results

Safety:

- Load and unload the sealed head in a biological safety cabinet
- Operates only when the lid is locked into position
- Auto-locking, plastic outer lid
- Lid remains locked at all times during rotation
- Sealed head is autoclavable

INCLUDES: Six-slide rotor

Description	Mfr. No.	Cat. No.	Each
Cytology Centrifuge	100-400	**10-040-0**	4692.00

Eppendorf™ 5702 Series Centrifuges

Provide exceptional value for low-speed centrifugation of tubes to 85mL

Quickly and economically spin popular cell culture and blood tubes in a choice of optional rotors. Choose from ventilated and refrigerated models, or unique Model 5702RH which combines heating and refrigerating capabilities.

05-400-300

Operating Features:

- Capacity: 340mL (4 × 85mL)
- Max. speed/force: 4400rpm (3000 × g)
- Handles 30 × 10mL blood tubes or 20 × 15mL conical tubes
- Compact, space-saving design
- Convenient control knobs set desired time and speed (rpm or rcf); settings can be changed during run or locked
- Digital display

Refrigerated Model 5702R adds:

- Variable temperature control from -9°C to +40°C (16° to 104°F)
- Fast-Cool function eliminates waiting times for unit to reach set temperatures
- Standby cooling maintains chamber temperature when not in use

Heating/Refrigerated Model 5702RH (Includes all features of Model 5702R, plus):

- Accurately maintains temperatures higher than room temperature
- Centrifuges temperature-sensitive cells under defined temperature conditions
- Active heating to 40°C
- Standby heating temperature deviation in stationary state at 4°C and at 37°C of ≤1°C

ORDERING INFORMATION:
Rotor options: Choose from 4 × 85mL Swinging Bucket Rotor (05-400-328) with round or square aerosol-tight buckets (sold separately); 8 × 15mL Swinging Bucket Rotor (05-400-301); 10 × 15mL Fixed-Angle Rotor (05-400-305); 24 × 1.5/2.0mL Fixed-Angle Rotor (05-400-370); 18 × 1.0/2.0mL Cryogenic Tube Rotor (05-400-371); or 30 × 15mL Fixed-Angle Rotor (05-400-304). Rotors are designed for quick acceleration and minimal heating of samples, are autoclavable, and can be used with all three models. All rotors and accessories sold separately.

REQUIRES: Rotor (sold separately)

Model	Type	Mfr. No.	Cat. No.	Each
120V				
5702	Ventilated	022 62 600-1	**05-400-300**	2362.50
5702R	Refrigerated	022 62 620-5	**05-400-240**	5962.43
5702RH	Heating/Refrigerated	022 62 621-3	**04-987-370**	6970.96
230V				
5702RH	Heating/Refrigerated	022626230	**04-987-371**	6970.96

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ACCESSORIES

Eppendorf™ 5702 Series 24-Place Fixed-Angle Rotor

24 × 1.5/2.0mL capacity

- For use with 5702 centrifuges
- Max. speed/force: 4400rpm/1770 × g
- Angle: 45°
- Without lid

05-400-370

Capacity	Mfr. No.	Cat. No.	Each
24 × 1.5/2.0mL	022639471	**05-400-370**	628.44

Eppendorf™ 5702 Series Eight-Place Swinging Bucket Rotor

For use in 5702 centrifuge

- 8 × 15mL capacity
- Max. speed/force: 4400rpm/2800 × g
- Accepts conical or round-bottom tubes with appropriate adapters

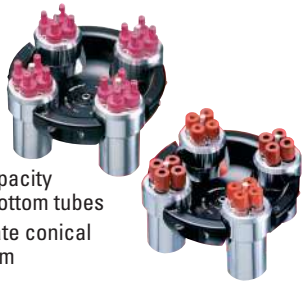
05-400-301

Description	Mfr. No.	Cat. No.	Each
Eight-place Swinging Bucket Rotor	022 63 950-1	**05-400-301**	359.38

Eppendorf™ 5702 Series Four-Place Swinging Bucket Rotor

For use with 5702 centrifuge

- 4 × 85mL capacity
- Max. speed/force: 4400rpm/3000 × g (with round bucket 05-400-320)
- Can be used with round buckets with optional aerosol-tight lids or high-capacity square buckets for round-bottom tubes
- Round buckets accommodate conical and round-bottom tubes from 1.1 to 85mL
- Square buckets (05-400-309) accommodate round-bottom tubes from 5 to 25mL and can reach speeds up to 4400rpm/2750 × g



05-400-318

INCLUDES: Available with or without buckets

REQUIRES: Buckets; purchase with rotor or separately

Model	Mfr. No.	Cat. No.	Each
With 4 × 85mL round buckets	022 63 904-8	**05-400-318**	827.19
Without buckets	022 63 906-4	**05-400-328**	584.98

Eppendorf™ Model 5702 18-Place Fixed-Angle Cryogenic Tube Rotor

18 × 1.0/2.0mL capacity

- Max. speed/force: 4400rpm/1840 × g
- Directly accepts 17mm dia. screw-cap vials or cryogenic vials (13mm dia.) with optional adapters
- Angle: 45°
- Without lid

05-400-372

Description	Mfr. No.	Cat. No.	Each
18 × 1.0/2.0mL rotor	022639480	**05-400-371**	713.26

Eppendorf™ 5702 Series 30-Place Fixed-Angle Rotors

For use with 5702 centrifuge

- 30 or 10 × 15mL capacity
- Max. speed/force: 4400rpm/2750 × g

05-400-304

INCLUDES:
05-400-304 includes 30 steel adapter sleeves, 20 cushions for conical tubes and 30 cushions for round-bottom tubes. 05-400-305 includes 10 steel adapter sleeves, 10 cushions for conical tubes and 10 cushions for 15mL round-bottom tubes.

Capacity	Mfr. No.	Cat. No.	Each
30 × 15mL	022 63 940-4	**05-400-304**	786.44
10 × 15mL	022 63 942-1	**05-400-305**	569.45

Aerosol-Tight Covers for Eppendorf™ Round Buckets

For use with 05-400-320 round buckets. Covers fit over buckets individually to provide an aerosol-tight seal.

Mfr. No.	Cat. No.	Pack of 2
022 63 929 3	**05-400-319**	134.30

ACCESSORIES

Round Buckets for Eppendorf™ Four-Place Swinging Bucket Rotors

Accommodate conical and round-bottom tubes from 1.1 to 85mL with appropriate adapters.

Capacity	Mfr. No.	Cat. No.	Pack of 4
4 × 85mL	022 63 908-1	**05-400-320**	826.16

Square Buckets for Eppendorf™ Four-Place Rotor

For use with 05-400-328 to accept round-bottom tubes from 5 to 25mL with appropriate adapters

Capacity	Mfr. No.	Cat. No.	Each
4 × 90mL	022 63 930-7	**05-400-309**	633.76

Tube Adapters for Eppendorf™ Eight-Place Swinging Bucket Rotor

For Eppendorf 5702 centrifuges

Fit in bucket supplied with 05-400-301 swinging bucket rotor to accept 15mL glass or conical tubes.

For Tubes	Mfr. No.	Cat. No.	Pack of 8
Glass	022 63 951-0	**05-400-302**	41.77
Conical	022 63 952-8	**05-400-303**	158.45

Eppendorf™ Tube Adapters for Fixed-Angle Rotors

For Eppendorf 5702 Fixed-Angle Rotors

- For use with fixed-angle rotors 05-400-304 and 05-400-305
- Steel adapter sleeves without cushions accept 15mL conical or round-bottom tubes
- Sleeves and adapters are sold in packs of 10

Description	For Tubes	Mfr. No.	Cat. No.	Pack of 10
Steel Sleeves	15mL	022 63 943 9	**05-400-307**	313.72
Cushions	15mL conical	022 63 944 7	**05-400-306**	198.35
Cushions	15mL round-bottom	022 63 945 5	**05-400-308**	50.23

Tube Adapters for Eppendorf™ Model 5702 Round Buckets

Fit in round bucket 05-400-320 to accept tubes from 1.1 to 85mL

NOTES:
Adapters are sold in packs of two. Be sure to order proper number to fully equip your rotor.

For Tubes	For Tube Outside Dia.	No. of Slots	Mfr. No.	Cat. No.	Pack of 2
1.1 to 1.4mL	8.5mm	5	022 63 928-5	**05-400-326**	359.27
2 to 7mL	12.5mm	4	022 63 924-2	**05-400-317**	363.06
4 to 10mL	16mm	4	022 63 926-9	**05-400-325**	363.06
9 to 15mL	17.5mm	4	022 63 912-9	**05-400-322**	363.06
15mL conical	17.5mm	1	022 63 918-8	**05-400-323**	200.42
15mL conical	17.5mm	2	022 63 920-0	**05-400-321**	363.06
50mL conical	30mm	1	022 63 922-6	**05-400-324**	200.42
85mL	38mm	1	022 63 916-1	**05-400-316**	198.33

Tube Adapters for Eppendorf™ Square Buckets

Fit in square bucket 05-400-309 to accept round-bottom tubes from 5 to 25mL

ORDERING INFORMATION:
Adapters are sold in packs of two. Be sure to order the proper number to fully equip your rotor.

For Tube	No. of Slots	Mfr. No.	Cat. No.	Pack of 2
25mL	2	022 63 939-1	**05-400-314**	162.00

SETTING UP A NEW LAB CAN BE OVERWHELMING. LET US HELP.

The Fisher Scientific New Lab Start-Up Program is an effective, economical way to obtain exclusive money-saving offers on the supplies you need. We've teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products for your new lab. Visit **www.fishersci.com/newlab** to apply today!

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Before You Buy Sorvall Benchtop Centrifuges

Thermo SCIENTIFIC

Important Terms to Know

- **Thermo Scientific™ Auto-Lock™ rotor exchange:** Secure push-button application versatility and cleaning convenience.
- **Thermo Scientific™ ClickSeal™ biocontainment lids:** One-handed, certified sample protection.

More Samples

- 4L capacity in a traditional 3L footprint with the new! Thermo Scientific TX-1000 swinging bucket rotor.
- Maximized capacity for your sample type – from 4 to 40 × 50 mL conical tubes or from 32 to 196 × 5/7 mL blood tubes, all with certified ClickSeal biocontainment sealing options.

More Speed

- Extensive rotor selection, including Thermo Scientific™ Fiberlite™ rotors for higher G-force (up to 25,000) and faster speed.
- Easy and secure Auto-Lock rotor exchange allows the flexibility to change applications in as little as 3 seconds.

Features To Look For

- **Safety** — Understand your facility's regulations with respect to biocontainment and ensure that all relevant accessories are tested and certified by internationally recognized safety organizations such as Public Health England, Porton Down, UK.
- **Footprint** — Conserve precious bench space with a compact or floor-standing unit.
- **Throughput** — Evaluate rotors and adapters that accommodate the maximum number of samples per run to ensure optimum efficiency. Additionally, innovative materials, such as carbon fiber, increase productivity and flexibility with maximized throughput.
- **Versatility** — Perform multiple tasks with a single unit by choosing a centrifuge with a broad rotor portfolio. Look for features that allow you to change these rotors quickly and easily, and without the use of tools, such as Thermo Scientific Auto-Lock rotor exchange.
- **Operation** — Optimize usage with intuitive, user-friendly controls to set parameters and bright displays to monitor run conditions from across the lab.

General Purpose

Benchtop

Thermo Scientific™ Sorvall™ Legend™ X1 Centrifuge Series

The X1 Series can handle a range of general-purpose processing including cell culture, microplate, bioproduction, blood separation, microbiology and many others.

It features a convenient 1L capacity and is available in both ventilated and refrigerated units. Refrigerated models are ideal for processing temperature-sensitive samples.

75-004-220

Simple Operation

- Intuitive control panel and digital display
- Detailed operation information, including display of set and actual parameters, maximize run performance and temperature accuracy for improved sample protection
- Easily adjust speed, time and temperature, even during the run with our convenient keyboard for direct input
- Double temperature management system displays the air temperature in the chamber as well as the sample temperature, ensuring accurate control of the sample temperature during the run

Auto-Lock™ III Rotor System

- Secure locking system allows easy push-button installation and exchange of rotors

ClickSeal™ Bucket Sealing System

- Biocontainment system seals with a snap; eliminates screw caps and complicated clips

Energy Efficient

- Design saves up to 40% of energy on industry standard protocols such as blood separations or conical-tube processing

Refrigerated Sorvall Legend X1R

- CFC-free refrigeration system
- Temperature Range: -10° to +40°C
- Pre-cooling function with direct button

APPLICATIONS:
Cell culture, microplate, bioproduction, food safety, blood separation, bodily fluids processing, pharmaceutical, biotechnology, stem cell, microbiology, molecular biology, proteomics, genomics

ORDERING INFORMATION:
For exceptional versatility, the Sorvall X1 series supports a wide range of rotors and adapters, including Thermo Scientific Fiberlite™ rotors, for a minimum of 10 rotor configurations. All rotors and adapters are sold separately.

REQUIRES: Rotor (sold separately)

COMPLIANCE: IVD compliant; IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101; 230V models meet EN 292, EN 61326, EN 55011B

CERTIFICATIONS: UL, CE, CSA, Certified Biosafety

Description	Electrical Requirements	Cat. No.	Each
Ventilated			
X1	120V 60Hz	**75-004-221**	5930.00
X1	230V 50/60Hz	**75-004-220**	5930.00
Refrigerated			
X1R	120V 60Hz	**75-004-261**	8310.00
X1R	230V 50/60Hz	**75-004-260**	8310.00

Thermo Scientific™ Fiberlite™ F15-8x50cy Fixed-Angle Rotor

Pellets fractional samples with high RCF

- Capacity: 8 × 50mL
- Max. Speed/RCF: 14,500rpm/24,446 × G

Fiberlite Rotors

- These lightweight, carbon fiber rotors maximize performance with versatility, speed and a robust, corrosion-free design
- Enhanced productivity: Reduce run-times with higher G-forces with our lightweight carbon fiber rotors
- Unequalled durability: Corrosion-and fatigue-resistant design ensures structural integrity
- Secure investment: Backed by a 15-year warranty
- Compatible with Thermo Scientific Nalgene™ bottles and tubes for complete centrifuge solutions

APPLICATIONS:
Pelleting cells, bacteria, subcellular fractions and small amounts of nucleic acids and viruses.

ORDERING INFORMATION:
Adapters are sold separately. O-ring Refresher Kit (021-085-077) is also available. Contact your Sales Representative for more information.

WARRANTY: 15 years parts and labor

75-003-663

Fits Models	Max. Speed	Max. RCF	Mfr. No.	Cat. No.	Each
Thermo Scientific Sorvall™ Legend™ X1, Sorvall Legend XT, Heraeus™ Multifuge X1, Heraeus Multifuge X3 Series	14,500rpm	24,446 × G	75003663	**75-003-663**	2223.44

Thermo Scientific™ Fiberlite™ F21-48x2 Fixed-Angle Rotor

Supports micro-volume protocols

- Capacity: 48 × 2mL
- Max. Speed/RCF: 15,200rpm/25,055 × G

Fiberlite Rotors

- These lightweight, carbon fiber rotors maximize performance with versatility, speed and a robust, corrosion-free design
- Enhanced productivity: Reduce run-times with higher G-forces with our lightweight carbon fiber rotors
- Unequalled durability: Corrosion-and fatigue-resistant design ensures structural integrity
- Secure investment: Backed by a 15-year warranty
- Compatible with Thermo Scientific Nalgene™ bottles and tubes for complete centrifuge solutions

ORDERING INFORMATION:
Tube Adapters are sold separately in sets of 24; O-ring Refresher Kit (021-489-021) is also available. Contact your Sales Representative for information.

WARRANTY:
15 years parts and labor

75-003-664

Max. Speed	Max. RCF	Fits Models	Mfr. No.	Cat. No.	Each
15,200rpm	25,055xG	Thermo Scientific Sorvall™ Legend™ X1, X3, Sorvall ST 40, Heraeus™ Multifuge X1, X3, Heraeus Megafuge 40, SL40	75003664	**75-003-664**	1869.78

Thermo Scientific™ Sorvall™ Legend™ XT/XF Centrifuge Series

The XT/XF Series can handle a range of general-purpose processing including cell culture, microplate, bioproduction, blood separation, microbiology and many others. It features a convenient 4L capacity and is available in both ventilated and refrigerated units. Refrigerated models are ideal for processing temperature-sensitive samples.

Simple Operation

- Intuitive control panel and digital display
- Detailed operation information, including display of set and actual parameters, maximizes run performance and temperature accuracy for improved sample protection
- Easily adjust speed, time and temperature, even during the run, with the convenient keyboard for direct input
- Double temperature management system displays the air temperature in the chamber as well as the sample temperature, ensuring accurate control of the sample temperature during the run

Auto-Lock™ III Rotor System

- Secure locking system allows easy push-button installation and exchange of rotors

ClickSeal™ Bucket Sealing System

- Biocontainment system seals with a snap; eliminates screw caps and complicated clips
- Ensure comfortable sample handling and cleaning of unit

Energy Efficient

- Design saves up to 40% of energy on industry standard protocols such as blood separations or conical-tube processing

Refrigerated Models Legend XTR/XTF

- For high-performance applications with temperature-sensitive samples
- CFC-free refrigeration system
- Temperature range: -10° to +40°C
- Pre-cooling function with direct button

75-004-506, 75-045-05, 75-045-08

ORDERING INFORMATION:
For exceptional versatility, the Sorvall XT series supports a wide range of rotors and adapters, including Thermo Scientific Fiberlite™ rotors, for a minimum of 16 rotor configurations. All rotors and adapters are sold separately.

REQUIRES: Rotor (sold separately)

COMPLIANCE:
IVD compliant; IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101; 230V models meet EN 292, EN 61326, EN 55011B.

CERTIFICATIONS:
UL, CE, CSA, Certified Biosafety

Description	Electrical Requirements	Cat. No.	Each
XT (Ventilated)	120V 60Hz, 1400w	**75-004-506**	8100.00
XT (Ventilated)	230V 50Hz, 1700w	**75-004-505**	8100.00
XT (Ventilated)	230V 50/60Hz (US and Canada), 1700w	**75-004-508**	8100.00
XTR (Refrigerated)	120V 60Hz, 1400w	**75-004-521**	11,650.00
XF (Nonrefrigerated)	120V 60Hz, 1400w	**75-004-533**	10,100.00
XF (Nonrefrigerated)	230V 50Hz, 1700w	**75-004-532**	10,100.00
XFR (Refrigerated)	120V 60Hz, 1400w	**75-004-539**	12,710.00
XFR (Refrigerated)	230V 50Hz, 1950w	**75-004-538**	12,710.00
XFR (Refrigerated)	230V 50/60Hz, 1950w (US and Canada)	**75-004-541**	12,580.00
XTR (Refrigerated)	230V 50/60Hz, 1950w (US and Canada)	**75-004-523**	11,540.00
XTR (Refrigerated)	230V 50Hz, 1950w	**75-004-520**	11,540.00

Thermo Scientific™ Fiberlite™ F13-14x50c Fixed Angle Rotor

Offers 14-place capacity and high maximum RCF

- Capacity: 14 × 50mL
- Maximum Speed/RCF: 10,000rpm/17,105 × G

Fiberlite Rotors

- These lightweight, carbon fiber rotors maximize performance with versatility, speed and a robust, corrosion-free design
- Enhanced productivity: Reduce run-times with higher G-forces with our lightweight carbon fiber rotors
- Unequalled durability: Corrosion- and fatigue-resistant design ensures structural integrity
- Secure investment: Backed by a 15-year warranty
- Compatible with Thermo Scientific Nalgene™ bottles and tubes for complete centrifuge solutions

APPLICATIONS:
Pelleting prokaryotic and eukaryotic cells from cell cultures.

ORDERING INFORMATION:
Tube adapters are sold separately. For O-ring refresher kit, order 021-149-027 or contact your Sales Representative for more information.

WARRANTY:
15 years parts and labor

75-003-661

Fits Models	Max. Force	Max. Speed	Mfr. No.	Cat. No.	Each
Sorvall™ Legend™ X1/XT/XF and Heraeus™ Multifuge X1/X3 Series	14,636 × G (17,105 × G with 230V)	9250rpm (10,000rpm with 230V model)	75003661	**75-003-661**	4125.00

Thermo Scientific™ Fiberlite™ F14-6x250LE Fixed-Angle Rotor

Supports a range of capacities and applications

- Capacity: 6 × 250mL
- Max. Speed/RCF: 10,000rpm (11,000rpm with 230V model)/15,316 × G (18,533 × G with 230V model)

Fiberlite Rotors

- These lightweight, carbon fiber rotors maximize performance with versatility, speed and a robust, corrosion-free design
- Enhanced productivity: Reduce run-times with higher G-forces with our lightweight carbon fiber rotors
- Unequalled durability: Corrosion-and fatigue-resistant design ensures structural integrity
- Secure investment: Backed by a 15-year warranty
- Compatible with Thermo Scientific Nalgene™ bottles and tubes for complete centrifuge solutions

APPLICATIONS:
Pelleting bacteria or yeast cells and for purifying nucleic acids and cells.

ORDERING INFORMATION:
Tube adapters are sold separately. Order O-ring Refresher Kit (021-062-153) for replacements. Contact your Sales Representative for information.

WARRANTY:
15 years parts and labor

75-003-662

Fits Models	Max. Speed	Max. RCF	Mfr. No.	Cat. No.	Each
Thermo Scientific Heraeus™ Multifuge X3/X3R/X3F, Sorvall™ Legend™ XT/XF/XTR/XFR Centrifuge Series	10,000rpm (11,000rpm with 230V model)	15,316 × G (18,533 × G with 230V model)	75003662	**75-003-662**	4133.20

Thermo Scientific™ Fiberlite™ F15-6x100y Fixed-Angle Rotor

Six-place capacity

- Capacity: 6 × 100mL
- Max. Speed/RCF: 15,000rpm/24,652 × G

Fiberlite Rotors

- These lightweight, carbon fiber rotors maximize performance with versatility, speed and a robust, corrosion-free design
- Enhanced productivity: Reduce run-times with higher G-forces with our lightweight carbon fiber rotors
- Unequalled durability: Corrosion-and fatigue-resistant design ensures structural integrity
- Secure investment: Backed by a 15-year warranty
- Compatible with Thermo Scientific Nalgene™ bottles and tubes for complete centrifuge solutions

APPLICATIONS: Pelleting bacteria or yeast cells and for purifying nucleic acids and cells.

ORDERING INFORMATION: Tube Adapters for F15-6 × 100 Rotor sold separately. O-ring Refresher Kit (021-069-031) is also available; contact your Sales Representative for information.

WARRANTY: 15 Years parts and labor

75-003-698

Fits Models	Max. Speed	Max. RCF	Mfr. No.	Cat. No.	Each
Thermo Scientific Sorvall™ Legend™ X1, XT, Sorvall ST 16, ST 40, Heraeus™ Multifuge X1, X3, Heraeus Megafuge 16, 40, SL 16, SL 40 Series	15,000rpm	24,652 × G	75003698	**75-003-698**	2790.32

Thermo Scientific™ Fiberlite™ H3-LV Large Volume Swinging Bucket Rotor

High-volume microplate processing

- Capacity: 28 standard or 8 deepwell plates
- Max. Speed/RCF: 3600rpm/1840 × G

Fiberlite Rotors

- These lightweight, carbon fiber rotors maximize performance with versatility, speed and a robust, corrosion-free design
- Enhanced productivity: Reduce run-times with higher G-forces with our lightweight carbon fiber rotors
- Unequalled durability: Corrosion-and fatigue-resistant design ensures structural integrity
- Secure investment: Backed by a 15-year warranty
- Compatible with Thermo Scientific Nalgene™ bottles and tubes for complete centrifuge solutions

APPLICATIONS:
Pelleting cells and cellular debris, protein precipitation, plasmid purification and collecting physiological fluids for diagnostic tests.

75-003-665

WARRANTY:
15 years parts and labor

Fits Models	Mfr. No.	Cat. No.	Each
Thermo Scientific Sorvall™ Legend™ XT, Heraeus™ Multifuge X3 Series	75003665	**75-003-665**	3279.59

Thermo Scientific™ Sorvall™ ST 8 Small Benchtop Centrifuge

The Sorvall ST 8 centrifuge provides exceptional capacity in a compact design with a smart, simple interface and the flexibility to support both clinical and research applications.

- Runs up to 24 × 5/7mL blood tubes at a time in swinging bucket configuration
- 8 × 50mL swinging bucket rotor capacity, 4 microplates, or 30 filtration columns for research needs
- Expanded programming options including password protection
- Auto-Lock rotor exchange for application flexibility — go from 50mL tube to a microplate to microtubes effortlessly
- Simplified exchange simplifies cleaning
- Quiet performance (<61 dBA) provides a safe, stress-free environment
- One-touch operation with pre-saved protocols and password protection available

Features that stand out:

- Secure, push-button Auto-Lock rotor exchange in less than three seconds delivers trouble-free rotor installation and removal and clear chamber access for cleaning convenience
- Biocontainment sealing options, including certified ClickSeal™ lids for glove-friendly, one-handed operation
- Manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability
- Multilingual instructions — English, Dutch, French, German, Italian, Russian and Spanish — on programming, run conditions, alerts and service messages
- Conforms to the latest clinical and safety standards, such as UL, CE and IVD

75007200

ORDERING INFORMATION:
Rotors must be purchased separately.

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Sorvall ST 8 centrifuge, ventilated	230V 50/60 Hz	75007201	**75007201**	2370.00
Sorvall ST 8 centrifuge, ventilated	120V 60Hz	75007200	**75007200**	2370.00
Sorvall ST 8 centrifuge, ventilated	100V 50/60Hz	75007202	**75007202**	2370.00

Thermo Scientific™ Sorvall™ ST 16 Centrifuge Series

Ideal for routine processing

The Thermo Scientific Sorvall ST 16 general purpose centrifuge series is perfect for everyday sample processing, including clinical protocols, cell culture applications and microplate processing. The refrigerated version is ideal for handling temperature-sensitive sample processing between -10° and +40°C.

Easy To Use

- Intuitive controls simplify operation and provide detailed information on a wide range of operating parameters and processing status for optimal performance
- Motorized lid latch enables one finger downward motion for easiest closing and locking of centrifuge lid, even on tall benches

Auto-Lock™ III Rotor System

- Secure locking system allows easy push-button installation and exchange of rotors

ClickSeal™ Bucket Sealing System

- Biocontainment solution seals with a snap; eliminates screw caps and complicated clips

Outstanding Energy Efficiency

- Up to 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tubes processing

Refrigerated Model ST 16R

- CFC-free refrigeration system
- Temperature range: -10° to +40°C
- Pre-cooling function with direct button

75-004-241

APPLICATIONS: Cell Culture, Blood Processing

ORDERING INFORMATION: A wide range of rotors are available for your daily routine processing requirements. Maximize performance with lighter-weight Thermo Scientific Fiberlite™ carbon fiber rotors that offer versatility, speed and robust, corrosion-free design. All rotors and adapters are sold separately.

REQUIRES: Rotor (sold separately)

COMPLIANCE: IVD Compliant, IEC 61010-1, IEC 61010-2-202, IEC 61010-2-101

CERTIFICATIONS: UL listed, CSA certified, CE marked, Certified Biosafety

Description	Electrical Requirements	Cat. No.	Each
Ventilated Models			
ST 16, Ventilated	120V 60Hz	**75-004-241**	4550.00
ST 16, Ventilated	230V 50/60Hz	**75-004-240**	4550.00
Refrigerated Models			
ST 16R, Refrigerated	120V 60Hz	**75-004-381**	6710.00
ST 16R, Refrigerated	230V 50/60Hz	**75-004-380**	6710.00

Thermo Scientific™ Sorvall™ ST 40 Centrifuge Series

General-purpose 4L centrifuges for everyday sample preparations

The Thermo Scientific Sorvall ST 40 general-purpose centrifuge series is perfect for everyday sample processing, including clinical protocols, cell culture applications and microplate processing. The refrigerated version is ideal for handling temperature-sensitive sample processing between -10° and +40°C.

Easy To Use

- Intuitive controls simplify operation and provide detailed information on a wide range of operating parameters and processing status for optimal performance
- Motorized lid latch enables one finger downward motion for easiest closing and locking of centrifuge lid, even on tall benches

Auto-Lock™ III Rotor System

- Secure locking system allows easy push-button installation and exchange of rotors

ClickSeal™ Bucket Sealing System

- Biocontainment solution seals with a snap; eliminates screw caps and complicated clips

Outstanding Energy Efficiency

- Up to 40% energy consumption savings on industry standard protocols, such as standard blood separation or conical tubes processing

Refrigerated Model ST 40R

- CFC-free refrigeration system
- Temperature range: -10° to +40°C
- Pre-cooling function with direct button
- 26.4L × 29.3W × 14.2"H [35.4"H open] (67 × 74.5 × 36cm [90cm open])
- Net weight: 255.7 lb. (116kg)

75-004-510

APPLICATIONS: Cell Culture, Blood Processing

ORDERING INFORMATION: A wide range of rotors are available for your daily routine processing requirements. Maximize performance with lighter-weight Thermo Scientific Fiberlite™ carbon fiber rotors that offer versatility, speed and robust, corrosion-free design. All rotors and adapters are sold separately.

REQUIRES: Rotor (sold separately)

COMPLIANCE: IVD Compliant, IEC 61010-1, IEC 61010-2-202, IEC 61010-2-101

CERTIFICATIONS: CSA, Certified Biosafety, CE marked, UL listed

Description	Electrical Requirements	Cat. No.	Each
ST 40 Centrifuge, Ventilated	120V 60Hz, 1400w	**75-004-510**	6930.00
ST 40 Centrifuge, Ventilated	230V 50/60Hz, 1700w	**75-004-509**	6930.00
ST 40R Centrifuge, Refrigerated	120V 60Hz, 1400w	**75-004-525**	9630.00
ST 40R Centrifuge, Refrigerated	230V 50/60Hz, 1950w	**75-004-524**	9630.00

ACCESSORIES

Thermo Scientific™ TX-1000 4 × 100mL Swinging Bucket Rotor

4L capacity in a traditional 3L general purpose centrifuge footprint

75-003-017

With diamond-cut technology, each bucket has 45 facets on the outside to reduce the weight, improving the aerodynamics compared to previous generations. Spinning this high capacity rotor can help to reduce energy used per tube by up to 19%†. Capacity is flexible with a broad range of adapters. Optional microplate carriers accommodate standard and deepwell microplates for greater versatility.

Key features include:

- Spin up to 40 × 50 mL conical tubes, 196 blood tubes or 24 microplates
- High capacities process more tubes in less runs, saving time while reducing energy and wear
- Rotor's Slide Coat finish offers an advanced lubricant and corrosion resistant coating
- Dual-purpose large bucket design accepts adapters for tubes or microplates

APPLICATIONS:
Cell culture, blood separation, body fluids processing, microbiology, proteomics, genomics and molecular biology

ORDERING INFORMATION:
Buckets, lids and microplate carriers are sold separately; order Rotor Body (75-003-607) and components to complete assembly. For Replacement O-Rings for lids (Set of 4) order 75-003-610. Tube Adapters are also available separately. Contact your Sales Representative for information.

INCLUDES: Rotor Manual

WARRANTY: Five years parts and labor

CERTIFICATIONS: Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Price
TX-1000 Swinging Bucket Rotor Body	75003017	**75-003-017**	2215.00
Buckets for TX-1000 Rotor (set of 4)	75003001	**75-003-001**	2215.00

† based on internal data

Thermo Scientific™ TX-750 Swinging Bucket Rotor

Delivers maximum flexibility at 4700rpm

75-003-607

Capacity is flexible with adapters ranging from 750 to 1.5mL. Choose from round or rectangular buckets and a wide array of available adapters. Optional microplate carriers accommodate standard and deepwell microplates for greater versatility.

- Capacity: 4 × 750mL (3L)
- Maximum Speed/RCF: 4700rpm/4816 × G

Slide coat anti-friction finish

- Eliminates need for lubrication at contact point between rotor cross and bucket
- Ensures smooth runs with minimal vibration
- Reduces regular maintenance steps
- Promotes longer rotor life and enhanced safety due to corrosion-resistant properties

APPLICATIONS: Cell culture, blood separation, body fluids processing, microbiology, proteomics, genomics and molecular biology

ORDERING INFORMATION:
Buckets, lids and microplate carriers are sold separately; order Rotor Body (75-003-607) and components to complete assembly. For Replacement O-Rings for lids (Set of 4) order 75-003-610. Tube Adapters are also available separately. Contact your Sales Representative for information.

INCLUDES: Rotor Manual

WARRANTY: Five years parts and labor

CERTIFICATIONS: Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Price
TX-750 Swinging Bucket Rotor Body w/Slide Coat anti-friction finish	75003180	**75-003-180**	2242.00
TX-750 Swinging Bucket Rotor Body	75003607	**75-003-607**	2315.70
Round 750mL Buckets, Pack of 4	75003608	**75-003-608**	1873.88
Rectangular 250mL Buckets, Set of 4	75003614	**75-003-614**	2540.00
ClickSeal™ Lids for Round Buckets, Set of 4	75003609	**75-003-609**	502.61
ClickSeal Lids for Rectangular Buckets, Set of 4	75003615	**75-003-615**	516.75
Microplate/Flask Carriers, Set of 4	75003617	**75-003-617**	2114.78
Replacement O-rings for Lids (Round Buckets)	75003610	**75-003-610**	126.48
Replacement O-rings for Lids (Rectangular Buckets)	75003616	**75-003-616**	117.00

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

ACCESSORIES

Thermo Scientific™ TX-400 Swinging Bucket Rotor

Supports a range of sample sizes and applications

The rotor accepts 32 to 76 blood tubes and up to 16 conical tubes in a single run. Flexible capacity with adapters ranging from 400 to 1.5mL.

- Capacity: 4 × 400mL (1.6L)
- Maximum Speed/RCF: 5000rpm/4696 × G
- Proprietary ClickSeal™ bucket sealing system

Slide Coat anti-friction finish

- Eliminates need for lubrication at contact point between rotor cross and bucket
- Ensures smooth runs with minimal vibration
- Reduces regular maintenance steps
- Promotes longer rotor life and enhanced safety due to corrosion-resistant properties
- Fits Models: Thermo Scientific Sorvall™ ST16, SL16, Sorvall Legend™ X1, Heraeus™ Multifuge X1, Heraeus Megafuge 16 Centrifuge Series

75-003-181

APPLICATIONS: Cell culture, blood separation, body fluids processing, microbiology, proteomics, genomics and molecular biology

ORDERING INFORMATION: Buckets and lids are sold separately; order rotor body and components to complete assembly. For replacement O-rings for lids (Set of 4), order 75-003-657. Tube adapters are also available separately. Contact your Sales Representative for information.

CERTIFICATIONS: Biocontainment certified by CAMR™, HPA, Porton Down, UK.

Description	Fits Models	Mfr. No.	Cat. No.	Each
TX-400 Swinging Bucket Rotor w/Slide Coat anti-friction finish	Thermo Scientific Sorvall ST16, SL16, Sorvall Legend X1, Heraeus Multifuge X1, Heraeus Megafuge 16 Centrifuge Series	75003181	**75-003-181**	1473.00

Thermo Scientific™ BIOShield™ 1000A Swinging Bucket Rotor

Safely spins frequently used tubes

Flexible capacity with adapters ranging from 250mL to 1.5mL and Porton Down certified sealing lid.

- Capacity: 4 × 250mL (1L)
- Max. speed/RCF: 6000rpm/7164 × G

Slide Coat anti-friction finish

- Eliminates need for lubrication at contact point between rotor cross and bucket
- Ensures smooth runs with minimal vibration
- Reduces regular maintenance steps
- Promotes longer rotor life and enhanced safety due to corrosion-resistant properties
- Fits Models: Thermo Scientific Sorvall™ ST40/40R, Legend™ XT/XTR/XF/XFR, Heraeus™ Megafuge 40/40R, Heraeus Multifuge X3/X3R/X3F/X3FR and Thermo Scientific SL40/SL40R Centrifuge Series

75-003-182

APPLICATIONS: Blood tube separations, cell culture and microbiological applications

ORDERING INFORMATION: Tube Adapters, sold in sets of four, are sold separately. Contact your Sales Representative for more information.

INCLUDES: Rotor body, windshield, buckets, sealing lid and rotor manual

WARRANTY: 5 years parts and labor.

CERTIFICATIONS: Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Each
BIOShield 1000A Swinging Bucket Rotor w/ Slide Coat anti-friction finish	75003182	**75-003-182**	4610.00

Thermo Scientific™ BIOShield™ 720 High Speed Swinging Bucket Rotor

Safely spins frequently used tubes

- Capacity flexibility with adapters ranging from 180 to 1.5mL
- Maximum capacity: 4 × 180mL (0.72L)
- Max. speed/RCF: 6300 rpm/7188 × G

Slide Coat anti-friction finish

- Eliminates need for lubrication at contact point between rotor cross and bucket
- Ensures smooth runs with minimal vibration
- Reduces regular maintenance steps
- Promotes longer rotor life and enhanced safety due to corrosion-resistant properties
- Fits Models: Thermo Scientific Sorvall™ ST16, SL16, Sorvall Legend™ X1, Heraeus™ Multifuge X1, Heraeus Megafuge 16 Centrifuge Series

75-003-183

ORDERING INFORMATION:
Tube Adapters, sold in sets of four, are sold separately. Contact your Sales Representative for more information.

CERTIFICATIONS:
Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Each
BIOShield 720 High Speed Swinging Bucket Rotor w/Slide Coat anti-friction finish	75003183	**75-003-183**	4081.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ACCESSORIES

Thermo Scientific™ 6 x 50mL Fixed-Angle Highconic Rotor with Cover

Six-place flexible capacity

- Max. Capacity: 6 × 50mL
- Max. Speed/RCF: 8500rpm/10,015 × G
- Fits Models: Primo™/Primo R

ORDERING INFORMATION:
When equipped with accessory adapters (sold separately), rotor accepts tubes from 1.5 to 50mL, including 15 to 50mL Falcon™ tubes.

INCLUDES:
Rotor and lid

CERTIFICATIONS:
Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

75-007-588

Description	Capacity	Cat. No.	Each
Thermo Scientific 6 x 50mL Fixed-Angle Highconic Rotor with Cover	6 × 50mL	**75-007-588**	3460.00

BIOLiner™ Swinging Bucket Rotor

Delivers maximum flexibility at 3500rpm

Capacity flexibility with a variety of adapters: 750 to 5mL. Optional microplate carriers accommodate standard and deepwell microplates for greater versatility.

- Maximum capacity: 4 × 750mL (3L)
- Max. speed/RCF: 3500rpm/2739 × G
- Fits Models: Thermo Scientific Sorvall™ ST40/40R, SL40/40R, Sorvall Legend™ XT/XTR, Heraeus™ Megafuge 40, Heraeus Multifuge X3/X3R, Heraeus Megafuge 40/40R Centrifuge Series

ORDERING INFORMATION:
Order BIOLiner Buckets (75-003-668, set of 4) and ClickSeal Biocontainment Lids (75-003-669, set of 4) to complete assembly. Replacement O-rings for lids (75-003-688) and adapters are sold separately. Microplate carriers (50-036-70) and lids (75-003-689) are also available. Contact your Sales Representative for information.

75-003-668

CERTIFICATIONS:
Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Fits Models	Cat. No.	Each
BIOLiner Buckets (Set of 4)	BIOLiner Rotor	**75-003-668**	1397.00
Microplate Carriers, Set of 2	BIOLiner Rotor	**75-003-796**	1161.00
Microplate Carriers, Set of 4	BIOLiner Rotor	**75-003-670**	2330.00
Sealing Lids for Microplate Carriers (Set of 4)	BIOLiner Microplate Carrier	**75-003-689**	509.60
Replacement O-rings for Lids	BIOLiner ClickSeal Biocontainment Lids	**75-003-688**	122.17
Replacement O-rings for Sealing Lids	BIOLiner Microplate Carrier Lids	**75-003-626**	121.13

Thermo Scientific™ 8 x 8 PCR Strip Fixed Angle Rotor

Capable of spinning up to 14,800rpm/ 16,800 x G

Supports micro-volume protocols, such as PCR reation set-up.

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory
- Certified biocontainment rotor lid for glove-friendly, one-handed operation

APPLICATIONS:
Microbiology, Genomics/Molecular Biology, Biochemistry and Pharmaceutical Studies

75005720

ORDERING INFORMATION:
Replacement biocontainment lid (75005730) and replacement O-rings are sold separately. Adapters are sold separately. Contact your sales representative for more information.

CERTIFICATIONS:
Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK.

Model	For use with	Mfr. No.	Cat. No.	Each
8 x 8 PCR Strip Rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005720	**75005720**	1145.00

ACCESSORIES

Thermo Scientific™ MT-12 Microtube Swinging Bucket Rotor

Spin up to 12 microtubes and filtration columns up to 13,000rpm/16,438 x G

Individual swinging bucket rotor for small-volume research applications.

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory

75005600

Description	For use with	Mfr. No.	Cat. No.	Each
MT-12 Rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005600	**75005600**	1948.00

Thermo Scientific™ Hematocrit Fixed Angle Rotor

Dedicated blood processing to achieve 24 capillary separations per run

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory

APPLICATIONS:
Hematology

ORDERING INFORMATION:
Includes linear scale. Replacement capillaries (75000923), sealing kit (75000964) and replacement linear scale (75000938) are sold separately. Contact your sales representative for more information.

75005733

Description	For use with	Mfr. No.	Cat. No.	Each
Hematocrit Rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005733	**75005733**	922.59

Thermo Scientific™ HIGHConic III Fixed Angle Rotor

Accommodates 6 x 50mL conical tubes at up to 8700rpm/ 10,155 x G in a fixed angle configuration

With a transparent lid, enable viewing of samples for added safety and convenience in case of a spill.

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory

7500709

APPLICATIONS:
Cellular Biology, Microbiology, Genomics/Molecular Biology, Proteomics, Biochemistry and Pharmaceutical Studies

ORDERING INFORMATION:
Replacement biocontainment lid (75005731) and replacement O-rings (75003058) are sold separately. Adapters are sold separately. Contact your sales representative for more information.

Description	For use with	Mfr. No.	Cat. No.	Each
HIGHConic III Rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005709	**75005709**	2180.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ACCESSORIES

Thermo Scientific™ TX-150 Swinging Bucket Rotor

Accomodates up to 24 x 5/7mL blood collection tubes or 8 x 50mL conical tubes at 4500rpm/ 3260 x G

Rotor innovations — from Thermo Scientific Auto-Lock™ rotor exchange to certified Thermo Scientific ClickSeal™ biocontainment lids — shorten run set-up time while providing peace-of-mind that your samples are secure.

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory
- Biocontainment sealing, including certified ClickSeal lids for glove-friendly, one-handed operation
- Eight adapters available to meet your evolving clinical and research needs

ORDERING INFORMATION: **75005701**
Round buckets (75005702), 50mL Conical buckets (75005703) ClickSeal biocontainment lids (75005707) and replacement O-rings (75005724) are sold separately. A variety of adapters are also available. Contact your sales representative for more information.

Description	For use with	Mfr. No.	Cat. No.	Each
TX-150 Rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005701	**75005701**	1156.00

Thermo Scientific™ MicroClick 24 x 2 Fixed Angle Microtube Rotor

Performance up to 16,000rpm/ 24,372 x G

Achieve micro-volume protocols, such as nucleic acid preparation.

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory
- Certified biocontainment rotor lid for glove-friendly, one-handed operation

APPLICATIONS:
Microbiology, Genomics/Molecular Biology, Biochemistry and Pharmaceutical Studies

ORDERING INFORMATION: **75005715**
Replacement biocontainment lid (75005725) and replacement O-rings (75003405) are sold separately. Adapters are sold separately. Contact your sales representative for more information.

CERTIFICATIONS:
Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK.

Description	For use with	Mfr. No.	Cat. No.	Each
MicroClick 24 x 2 fixed angle microtube rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005715	**75005715**	1282.00

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ACCESSORIES

Thermo Scientific MicroClick 30 x 2 Fixed Angle Microtube Rotor

Maximized capacity up to 30 x 2mL microtubes or filtration columns at up to 14,000rpm/21,693 x G

75005719

Achieve micro-volume protocols, such as nucleic acid preparation and filtration columns.

Secure, push-button Auto-Lock rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory
- Biocontainment sealing options, including certified ClickSeal lids for glove-friendly, one-handed operation

APPLICATIONS: Microbiology, Genomics/Molecular Biology, Biochemistry and Pharmaceutical Studies

ORDERING INFORMATION: Replacement biocontainment lid (75005730) and replacement O-rings (75005726) are sold separately. Adapters are sold separately. Contact your sales representative for more information.

Description	For use with	Mfr. No.	Cat. No.	Each
MicroClick 30 x 2 Rotor	Thermo Scientific Sorvall™ Legend™ XT/XF and X1, Sorvall ST 40, ST 16 and ST 8, Heraeus™ Multifuge X3/X3F and X1, Heraeus Megafuge 40, Megafuge 16 and Megafuge 8, and SL 40F, SL 40, SL 16 and SL 8 centrifuges	75005719	**75005719**	1231.00

Thermo Scientific™ M10 Microplate Swinging Bucket Rotor

Accommodates up to four microplates at 4500rpm/2576 x G

75005706

Spin up to four microplates or two deepwell plates with the convenience of transportable microplate carriers.

Secure, push-button Auto-Lock rotor exchange in less than three seconds delivers:

- Trouble-free rotor installation and removal
- No tools are required
- No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications, from conical tubes to blood tubes, from microtubes to microplates, and the flexibility to evolve with the changing needs of your laboratory

APPLICATIONS:
Cell Biology, Microbiology, Genomics/Molecular Biology, Clinical Chemistry, Clinical Microbiology, Hematology and Immunology

ORDERING INFORMATION:
Unsealed buckets (75005723) are sold separately. Contact your sales representative for more information.

Description	For use with	Mfr. No.	Cat. No.	Each
M10 Rotor	Thermo Scientific Sorvall™ ST 8, Heraeus™ Megafuge 8 and SL 8 centrifuges	75005706	**75005706**	1282.00

Microtube Adapters

Accommodate tubes from 0.2 to 0.6mL

76-003 Series

For use with Sorvall™ Micro 17/Micro 21, Heraeus™ Pico/Fresco, Legend™ T/RT Plus, Stratos™ and Primo™/Primo R Centrifuges in the rotors listed below.

- Micro 17/17R and Micro 21/21R: All rotors
- Pico 17/21 and Fresco 17/21: All rotors
- Legend T/RT Plus and Stratos: 75003332
- Primo/Primo R: 75007592, 75007593, and 75007599

ORDERING INFORMATION:
Sold in packs of 24.

Size	Color	Cat. No.	Pack of 24
0.2mL	Gray	**76-003-750**	234.32
0.25/0.4mL	Red	**76-003-759**	229.00
0.5/0.6mL	Turquoise	**76-003-758**	226.67

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

Rotor Stand for Thermo Scientific™ Sorvall™ Auto-Lock III Centrifuges

For 1L and 3L Auto-Lock III Sorvall centrifuges

For use with Sorvall ST16/ST16R, ST40/ST40R, X1/X1R, XT/XTR and XF/XFR.

Description	Mfr. No.	Cat. No.	Each
Rotor Stand	75003711	**75-003-711**	227.49

4-Place Swinging Bucket Rotor

For use with Thermo Scientific™ Sorvall™ Stratos™ Centrifuges

Swinging bucket rotor body for use with Thermo Scientific Sorvall Stratos Centrifuges

- 4 × 180mL capacity (round buckets)
- Max speed/RCF: 5000rpm/4863 × G
- Accessory adapters allow rotor to accept volumes from 1.5 to 100mL

75-003-047

Description	Capacity	Cat. No.	Each
Rotor	4 × 180mL	**75-003-047**	1898.00

Round Bucket Rotor

For use with Four-Place Swinging Bucket Rotor 75-003-047

ORDERING INFORMATION:
Order correct quantity to equip rotor. Aerosol-tight lids (75008173) sold separately. Optional adapters accept assorted tube styles and volumes from 1.5mL to 100mL.

75-003-047 with 75-008-172 buckets

Capacity	Cat. No.	Each
180mL	**75-008-172**	760.81

Buckets and Lids for Thermo Scientific™ TX-150 Swinging Bucket Rotor

Round and conical buckets

- Max. Force: 3260 × g
- Max. Speed: 4500

75005703

Description	Capacity	Tube O.D. × L	Mfr. No.	Cat. No.	Each
50mL Conical Buckets (set of 4)	8 × 50mL	29.5 × 120mm	75005703	**75005703**	935.50
Round Buckets (set of 4)	4 × 145mL	50 × 100mm	75005702	**75005702**	621.00
ClickSeal Biocontainment Lids for Round Buckets (set of 4)	----	----	75005707	**75005707**	217.00

Buckets for Thermo Scientific™ M10 Microplate Swinging Bucket Rotor

Unsealed buckets

75005723

Description	Mfr. No.	Cat. No.	Set of 2
Unsealed Buckets	75005723	**75005723**	725.00

Adapters for Thermo Scientific™ TX-150 Swinging Bucket Rotors

Assorted tube adapters

Description	Rotor Capacity	Max Tube O.D. × L	Mfr. No.	Cat. No.	Price
Adapters for Round Buckets (sets of 4)					
100 mL Round Bottom Open-Top Tube	4 × 100mL	45 × 117mm	75005735	**75005735**	312.56
50mL Conical or Skirted Tube	4 × 50mL	29.5 × 120mm	75005736	**75005736**	312.56
25mL Universal Flat/Skirted Tube	4 × 25mL	25 × 199mm	75005744	**75005744**	311.00
11/15mL IVF/Conical Tube	8 × 11/15mL	17 × 122mm	75005737	**75005737**	312.56
10mL Blood Collection or 15mL Corex/Kimble Tube; 12mL Blood Collection Tube (Greiner); 14mL Urine Tube	16 × 10/15/12/14mL	17 × 177mm; 16 × 100mm; 18 × 124mm	75005738	**75005738**	311.00
5/7mL Blood Collection Tube	24 × 5/7mL	13 × 116mm	75005739	**75005739**	312.56
3/5mL Blood Collection Tube	28 × 3/5mL	12 × 124mm	75005740	**75005740**	312.56

ACCESSORIES

Replacement Lids and Seals for Thermo Scientific™ MicroClick and 8 × 8 PCR Strip Rotors

ClickSeal™ Biocontainment Lids and O-rings

Description	Mfr. No.	Cat. No.	Each
For use with MicroClick 30 × 2 and 8 × 8 PCR Strip Rotor			
Replacement ClickSeal Biocontainment Lid	75005730	**75005730**	204.00
For use with MicroClick 24 × 2 Rotor			
Replacement ClickSeal Biocontainment Lid	75005725	**75005725**	219.00

Replacement Lids and Seals for Thermo Scientific™ HIGHConic™ III Rotor

Description	Mfr. No.	Cat. No.	Each
Replacement Lid	75005731	**75-005-731**	204.00
Replacement Sealing O-Rings (Set of 2)	75003058	**75-003-058**	117.01

Thermo Scientific™ 24 × 1.5mL Fixed Angle Rotor

75-003-331

Description	Cat. No.	Each
24 × 1.5mL Fixed Angle Rotor	**75-003-331**	2011.48

8 × 50mL Fixed-Angle Rotor

Ideal for high-risk applications

75-003-335

Capacity flexibility with adapters ranging from 38 to 1.5mL. Choose from a wide array of available adapters.

- Capacity: 8 × 50mL (0.4L)
- Max. speed/RCF: 13,000rpm/20,220 × G (for 120V unit), 15,000rpm/26,920 × G (for 208V unit)
- The rotor spins eight conical tubes in sealed vessels which can be prepared remotely
- Biocontainment ensures safe processing of TB sputum and clinical samples
- Fits Models: Thermo Scientific™ Heraeus™ Stratos™ Biofuge, Sorvall™ Stratos centrifuge series

ORDERING INFORMATION: Order rotor body (75-003-335) and components to complete assembly. Order 75-003-404 for O-ring/gasket replacement. Tube adapters are also available separately. Contact your Sales Representative for information.

CERTIFICATIONS: Biocontainment Certified by CAMR™, HPA, Porton Down, U.K.

Capacity	Cat. No.	Each
8 × 50mL	**75-003-335**	3548.56

BIOShield™ 1000A Rotor Adapters

For use with the BIOShield 1000A Rotor

- Adapters are for 15/50mL conical tubes.
- Maximum rotor capacity for 50mL bottle adapters: 800mL
- Capacity for 15mL adapters: 480mL

ORDERING INFORMATION:
A variety of other adapters (sold in sets of four unless otherwise noted) are available for use with both the BIOShield 1000A Rotor (75-003-603) and the TX-750 Swinging Bucket Rotor w/Rectangular Buckets (75-003-614). Contact your Sales Representative for more information.

75-003-643

Accepts	Capacity (Places × Vol.)	Max. Tube O.D. × L	Cat. No.	Pack of 4
15mL Conical Tube	36 × 15mL	17 × 121mm	**75-003-642**	619.41
50mL Conical Tube	16 × 50mL	29.5 × 117mm	**75-003-643**	619.41

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

BIOLiner™ Rotor Bucket Adapters

For varied sample configurations with the BIOLiner Rotor Bucket

Individual adapters as well as bottle/adapter packages are offered.

- Capacity range: 3L to 980mL
- Maximum tube dimensions (O.D. × L): 98 × 124mm

75-003-692

INCLUDES:
75-003-692 includes 750mL flat-bottom bottle with all round adapters for the TX-750 round bucket and four 500mL Corning™ conical bottle adapters.

Accepts	Capacity (Places × Vol.)	Max. Tube O.D. × L	Cat. No.	Pack of 4
750mL Flat-bottom Bottle w/Round Adapters for TX-750 Round Buckets	4 × 750mL	98 × 124mm	**75-003-692**	558.61
250mL Corning Conical Bottles	4 × 250mL	62 × 145mm	**75-003-691**	537.25
250mL Nalgene™ Oak Ridge Bottles	8 × 250mL	62 × 130mm	**75-003-675**	536.77
50mL Conical Tubes	40 × 50mL	30 × 120mm	**75-003-674**	563.75
15mL Conical Tubes	88 × 15mL	17.5 × 121mm	**75-003-673**	551.17
10mL Blood Collection Tubes	148 × 10mL	17 × 110mm	**75-003-672**	560.17
5/7mL Blood Collection Tubes	196 × 5/7mL	14 × 110mm	**75-003-671**	548.79

HIGHConic™ II Aluminum Fixed-Angle Rotor

Biocontainment at 10,350rpm

Capacity flexibility with adapters ranging from 564 to 48mL. Choose from round or conical tubes with a wide array of available adapters.

75-003-620

- Ensures sample material does not run out and the pellet forms at the bottom of the tube
- Capacity: 6 × 94mL
- Maximum Speed/RCF: 10,350rpm/15,090 × G
- Fits Models: Thermo Scientific™ Sorvall™ ST 40/40R, Sorvall Legend™ XT/XTR, Heraeus™ Megafuge 40/40R, Heraeus Multifuge X3/X3R Centrifuge series

ORDERING INFORMATION:
Adapters are sold separately. Replacement sealing O-rings are also available (in sets of two with grease). Contact your Sales Representative for more information.

CERTIFICATIONS:
Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Each
Highconic II Fixed-Angle Rotor	75003620	**75-003-620**	2630.00

HIGHPlate™ 6000 Microplate Rotor

Spins filter plates

The rotor accommodates a variety of filtration plates up to 80mm high.

75-003-606

- Capacity: 2 × 5 Standard plates
- Max. Speed/RCF: 6300rpm/6168 × G
- Fits Models: Thermo Scientific™ Sorvall™ Legend™ XT/XTR, Heraeus™ Multifuge X3/X3R

APPLICATIONS: DNA purification protocols

CERTIFICATIONS: Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Each
HIGHPlate 6000 Microplate Rotor	75003606	**75-003-606**	4460.00

Microliter 48 × 2mL Sealed Aluminum Fixed-Angle Rotor

Supports micro-volume protocols

Capacity flexibility with adapters ranging from 12 to 24mL. Choose from PCR and Microtubes.

75-003-602

- Capacity: 48 × 2mL
- Max. Speed/RCF: 15,200rpm/25,314 × G
- Fits Models: Thermo Scientific™ Sorvall™ ST 40/40R, Sorvall Legend™ XT/XTR, Heraeus™ Megafuge 40/40R, Heraeus Multifuge X3, X3R, Centrifuge series

APPLICATIONS: DNA, RNA, plasmid and small volume protein isolation

ORDERING INFORMATION: Tube adapters sold separately in sets of 24. Contact your Sales Representative for details.

CERTIFICATIONS: Biocontainment certified by CAMR™, HPA, Porton Down, U.K.

Description	Mfr. No.	Cat. No.	Each
48 × 2mL Sealed Aluminum Fixed-Angle Rotor	75003602	**75-003-602**	1838.00

4-Place Swinging Bucket Rotor

Optional aerosol-tight cap available

- Capacity is flexible with adapters: 1.5 to 100mL
- Capacity: 4 × 100mL
- Maximum speed/RCF: 4000rpm/2590 × g
- Fits Models: Heraeus™ Primo™/Primo R

75-003-591

ORDERING INFORMATION: Order (4 each) round buckets (75007555), tube adapters and aerosol-tight cap separately. Using tube size smaller than 100mL requires special adapters. Contact your Service Representative for information.

CERTIFICATIONS: Biocontainment certified by CAMR, HPA, Porton Down, U.K.

Capacity	Cat. No.	Each
4 × 100mL	**75-007-591**	1164.00

ACCESSORIES

TX-750 Swinging Bucket/BIOShield™ 1000A Adapters

For use with the TX-750 and BIOShield 1000A Swinging Bucket Rotors

- Adapters accept round/flat-bottom and blood collection bottles/tubes for TX-750 Rectangular Buckets or BIOShield 1000A Rotor
- Maximum tube size: 63 × 130mm

75-003-770

Accepts	Mfr. No.	Cat. No.	Set of 4
1.5/2.0mL Conical Microtube	75003770	**75-003-770**	627.44
5/7mL Blood Collection Tube	75003768	**75-003-768**	619.41
5/7mL Round-bottom Tube	75003769	**75-003-769**	626.67
10mL Blood Collection/15mL DIN Tube	75003767	**75-003-767**	618.65
15mL Conical Urine Tube	75003759	**75-003-759**	581.00
45mL Flat/round Tube	75003750	**75-003-750**	356.51
50mL Round-bottom Tube	75003749	**75-003-749**	601.54
250mL Flat-bottom Bottles	75003737	**75-003-737**	618.65
100mL Round-bottom Open-top Tubes	75003742	**75-003-742**	581.00

TX-750 Rectangular Bucket Adapters

For use with the TX-750 Rectangular Buckets

- Adapters accept 50 × 15mL conical tubes
- Maximum Capacity: 1L (20 × 50mL)
- Max. Tube Size: 30 × 121mm

ORDERING INFORMATION:
Order rectangular buckets (75003614), ClickSeal™ Biocontainment Lids (75003615) and TX-750 Rotor (75003607) separately. Contact your Sales Representative for more information.

75-003-684

Accepts	Capacity (Places × Vol.)	Max. Tube O.D. × L	Mfr. No.	Cat. No.	Set of 4
50mL Conical Tubes	20 × 50mL	30 × 121mm	75003685	**75-003-685**	627.44
15mL Conical Tubes	48 × 15mL	17 × 120mm	75003684	**75-003-684**	609.34

TX-750 Round Bucket Adapters

For enhanced functionality of TX-750 Rotor

Adapters will hold round-bottom and conical tubes and bottles, microtubes and blood collection tubes.

75-003-638

Accepts	Capacity (Place × Vol.)	Max. Tube O.D. × L	Mfr. No.	Cat. No.	Price
175mL Nalgene™ Bottle	4 × 175mL	62 × 139mm	75003710	**75-003-710**	Pk. of 4/663.35
100mL Round-bottom Open-top Tube	8 × 100mL	45 × 123mm	75003713	**75-003-713**	Pk. of 4/1025.33
50mL Conical Tube (w/sealing vessel)	12 × 50mL	29.5 × 120mm	75003714	**75-003-714**	Pk. of 4/668.44
50mL Conical Tube	28 × 50mL	29.5 × 120mm	75003638	**75-003-638**	Pk. of 4/662.21
50mL Round-bottom Tube	28 × 50mL	29.5 × 120mm	75003715	**75-003-715**	Pk. of 4/668.44
25mL Universal Conical/Skirted Tube	28 × 25mL	25.5 × 120mm	75003716	**75-003-716**	Pk. of 4/649.16
15mL Conical Tube	56 × 15mL	17 × 122mm	75003639	**75-003-639**	Pk. of 4/660.87
15mL Blood Collection Tube (17 × 125mm)	32 × 15mL	17 × 134mm (inner circle only)	75003719	**75-003-719**	Pk. of 4/666.03
14mL Conical Urine Tube	48 × 14mL	18 × 124mm	75003718	**75-003-718**	Pk. of 4/680.61
5/7mL Blood Collection Tube	108 × 5/7mL	13 × 116mm	75003723	**75-003-723**	Pk. of 4/667.64
5mL RIA/Round-bottom Tube (w/o cap)	148 × 5mL	13 × 111mm	75003724	**75-003-724**	Pk. of 4/644.96
5/7mL Round-bottom Tube (w/o cap) w/Decanting Aid	148 × 5/7mL	13 × 111mm	75003732	**75-003-732**	Pk. of 4/668.44
1.5/2mL Conical Microtube	192 × 2mL	11 × 50mm	75003733	**75-003-733**	Pk. of 4/668.44
250mL Corning™ Conical Bottle	4 × 250mL	62.5 × 139mm	75003792	**75-003-792**	Ea./629.00
750mL Polypropylene Bio-Bottle (No Adapter Needed)	N/A	N/A	75003699	**75-003-699**	Ea./28.71

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Eppendorf™ 5804/5810 Series Multipurpose Centrifuges

Benchtop centrifuges accommodate a variety of rotors for impressive application versatility

Virtually three centrifuges in one, with high-capacity volume for cell harvesting, high-speed centrifugation for separating cell lysates and microvolume capability for DNA precipitations. Featuring powerful, maintenance-free motors, compact Model 5804 and large-capacity Model 5810 are available with or without refrigeration.

Operating Features

- Capacity: 1.6L (4 × 500mL) for Models 5810/5810R
- Maximum speed/RCF: 14,000rpm/20,800 × G
- Spin up to 48 × 15mL conical tubes (Model 5810 only) or up to 30 microtubes per run
- Touch-keypad control and digital display for speed/RCF, run time, program number and temperature (refrigerated Models 5804R/5810R only)
- With 34-program memory
- Run modes: timed (up to 99 minutes in 1-minute increments) or continuous run
- Choice of 10 acceleration/braking profiles

Safety Features

- Low-profile design for convenient access to rotor chamber
- Motorized lid lock
- Automatic rotor recognition and unbalanced load sensor with alert
- Low-noise (P60dB), maintenance-free motor

Refrigerated Models 5804R and 5810R

- CFC-free refrigeration system
- Variable temperature control from -9° to +40°C (16° to 104°F)
- Fast cool function cools the rotor chamber from ambient down to 4°C within 15 minutes
- Standby refrigeration keeps the rotor chamber at set temperature
- Maintain temperatures as low as +4°C (39°F) at max. speed under heavy load
- Choose 15A or faster-cooling 20A versions

Compact Models 5804/5804R

- Accept tubes from 0.2 to 100mL
- Dimensions: 22L × 19W × 13"H (56 × 48 × 33cm); Model 5804R measures 25"W (63.5cm)

Large Capacity Models 5810/5810R

- Accept tubes and bottles from 0.2 to 500mL (with accessory adapters, sold separately)
- Can handle loads of up to 48 × 15mL conical tubes
- Dimensions: 24L × 21W × 13"H (61 × 53 × 33cm); Model 5810R refrigerated model measures 28"W (71cm)

INCLUDES:
Centrifuge only

REQUIRES:
Rotor (sold separately)

05-400-61

Electrical Requirements	Net Weight	Mfr. No.	Cat. No.	Each
Model 5804 (Nonrefrigerated)				
115V 60Hz, 15A	121 lb. (56kg)	022 62 250 1	**05-400-90**	5355.00
220V 50Hz, 15A (Intl.)	121 lb. (56kg)	022 62 255 2	**05-400-91**	5355.00
Model 5804R (Refrigerated)				
115V 60Hz, 15A	176 lb. (82kg)	022 62 350 8	**05-400-93**	9124.50
115V 60Hz, 20A	176 lb. (82kg)	022 62 508 0	**04-987-372**	9124.50
220V 50Hz, 15A (Intl.)	176 lb. (82kg)	022 62 355 9	**05-400-92**	9124.50
Model 5810 (Nonrefrigerated)				
115V 60Hz, 15A	150 lb. (68kg)	022 62 500 4	**05-400-60**	6898.50
Model 5810R (Refrigerated)				
115V 60Hz, 15A	218 lb. (99kg)	022 62 550 1	**05-400-61**	10,673.25
115V 60Hz, 20A	218 lb. (99kg)	022 62 510 1	**04-987-373**	10,673.25
220V 50Hz, 15A (Intl.)	218 lb. (99kg)	022 62 555 1	**05-400-63**	10,673.25

ACCESSORIES

30-Place Fixed-Angle Rotor

- For use with 5804 and 5810 Series centrifuges
- 30 × 1.5 to 2.0mL capacity
- Maximum speed/RCF: 14,000rpm/20,800 × G
- Directly accept 1.5 to 2.0mL microcentrifuge tubes measuring 11.5 dia. × 50mm long
- Choose from rotors supplied with a quick-release lid or an aerosol-tight cover

ORDERING INFORMATION:
Can also accept 0.5 and 0.4/0.25mL tubes when equipped with accessory adapters (05-406-10 and 05-406-25, respectively; order separately).

Lid Type	Capacity	Mfr. No.	Cat. No.	Each
Quick-release	30 × 1.5–2.0mL	022 63 700 2	**05-400-88**	1251.58
Aerosol-tight	30 × 1.5–2.0mL	022 63 710 0	**05-400-89**	1701.72

ACCESSORIES

Deep-Well Swinging Bucket Rotor

05-401-04

- For use with 5804 and 5810 Series centrifuges
- Capacity: two deep-well assemblies or 10 microplates (filter and catch-plate stacks)
- Maximum speed/RCF: 3600rpm/1900 × g
- Supplied with two buckets that hold up to 85mm high plates —perfect for tall deep-well blocks or multiwell assemblies such as 96-well nucleic acid isolation kits and filtration
- Can be used with Eppendorf™ Perfectprep™ Plasmid 96 Spin Kits (E003200 5900 and E003200 5950), "sandwiching" the membrane plate and deep-well block for a perfect fit in the rotor

INCLUDES:
Rotor and buckets

Description	Mfr. No.	Cat. No.	Each
5804/5810 Series Deep-Well Swinging Bucket Rotor	022-63-856-4	**05-401-04**	2217.73

4-Place Swinging Bucket Rotor

For use with both 5804 and 5810 Series centrifuges

- 4 × 100mL capacity
- Maximum speed/RCF: 5000rpm/4500 × g

ORDERING INFORMATION:
Tube adapters and bucket covers (05-400-109) available separately.

05-400-94

INCLUDES:
Four tube buckets to accommodate tubes from 1.5 to 100mL when equipped with accessory adapters

Description	Mfr. No.	Cat. No.	Each
5804/5810 Series Four-Place Swinging Bucket Rotor	022 63 740 1	**05-400-94**	1789.56

6-Place Fixed-Angle Rotor

- For use with 5804 and 5810 Series centrifuges
- 6 × 85mL capacity
- Maximum speed/RCF: 11,000rpm/15,500 × g (12,000rpm/18,500 × g in Model 5810R)
- Directly accepts 85mL Oak Ridge tubes measuring 38 dia. × 120mm long

ORDERING INFORMATION:
Adapters are also available to accept tubes from 1.5 to 50mL (order online)

Description	Mfr. No.	Cat. No.	Each
5804/5810 Series Six-Place Fixed-Angle Rotor	022 63 720 7	**05-400-81**	2591.01

Tube Adapters

Fit 400mL buckets supplied with 04-987-252 rotor.

NOTES:
Adapters are supplied in packs of two. Order correct quantity to equip rotor.

For Tubes	Max. O.D. × L	No. of Slots	Mfr. No.	Cat. No.	Pack of 2
7 to 17mL tubes	17.5 × 118mm	16	022638726	**04-987-254**	339.02
15mL conical tubes	17.5 × 121mm	16	022638742	**04-987-255**	339.02
50mL conical tubes	31 × 122mm	5	022638769	**04-987-256**	339.02
400mL bottles	81 × 133mm	1	022638785	**04-987-257**	339.02

4-Place Swinging Bucket Microplate Rotor

- For use in Model 5810 Series centrifuges only
- Capacity: 16 microplates
- Maximum speed/RCF: 4000rpm/2750 × g
- Maximum total plate height: 45mm

INCLUDES:
Four microtiter plate buckets. Each bucket can accommodate up to four standard microplates for a maximum of 16 microplates per run.

Description	Mfr. No.	Cat. No.	Each
5810 Series Four-Place Microplate Rotor	022 63 804 1	**05-400-80**	2942.32

Tube Adapters

Fit in buckets supplied with 05-400-94 swinging bucket rotor to accept tubes from 1.5 to 100mL

NOTES:
Adapters are sold in packs of two. Order the proper number of adapters to fully equip your rotor.

For Tubes	Max. O.D. × L	No. of Slots	Mfr. No.	Cat. No.	Pack of 2
1.5 to 2mL	11 × 111mm†	12	022 63 752 5	**05-400-96**	281.56
7mL	13 × 108mm†	9	022 63 754 1	**05-400-97**	281.56
15mL	16 × 108mm†	7	022 63 756 8	**05-400-98**	281.56
15mL (conical)	17.5 × 121mm†	4	022 63 760 6	**05-400-100**	281.56
50mL (conical)	31 × 122mm†	1	022 63 766 5	**05-400-103**	281.56
80 to 100mL	45 × 114mm†	1	022 63 772 0	**05-400-106**	281.56

†Adapters are sold in packs of two. Order the proper number of adapters to fully equip your rotor.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

Aerosol-Tight Bucket Covers

For use with buckets supplied with 05-400-64 swinging bucket rotor. Covers fit over buckets individually to provide an aerosol-tight seal.

Description	Mfr. No.	Cat. No.	Pack of 2
5810 Series Four-Place Swinging Bucket Aerosol-Tight Bucket Covers	022 63 803 3	**05-400-65**	187.60

4-Place Swinging Bucket Rotor

- For use with 5810 Series centrifuges only
- 4 × 250mL capacity
- Maximum speed/RCF: 4000rpm/3200 × g

ORDERING INFORMATION:
Aerosol-tight covers (05-400-65) are available separately to provide individual containment of each bucket. Microplate buckets (05-400-79) also available to spin microplates.

INCLUDES:
Four buckets which directly accept accessory adapters for 1.5 to 250mL tubes

Description	Mfr. No.	Cat. No.	Each
5810 Series Four-Place Swinging Bucket Rotor	02263800-9	**05-400-64**	2448.28

Super High-Capacity 4-Place Swinging Bucket Rotor

- For use in 5810 Series centrifuges only
- Accepts up to 48 × 15mL conical tubes or 100 × 7mL tubes
- Maximum speed/RCF: 4000rpm/3250 × g
- Supplied with four buckets that accept accessory adapters for tube sizes from 2.6 to 400mL

04-987-252

ORDERING INFORMATION:
Tube adapters and aerosol-tight covers are available separately.

INCLUDES:
Four buckets

Description	Mfr. No.	Cat. No.	Each
Super High-Capacity Four-Place Swinging Bucket Rotor	022 63 860-2	**04-987-252**	3458.32

Oil

Koehler™ Automatic Heated Oil Test Centrifuge

Fully automatic benchtop centrifuge designed specifically for petroleum testing applications

Centrifugation provides a convenient means of determining sediment and water content in crude oil, fuel oils, middle distillate fuels and biodiesel. Also used in determining the precipitation number, demulsibility characteristics, trace sediments and insolubles in used lubricating oils.

- Use integrated LCD touch screen control panel to turn heat on and off, set test duration, set RCF/RPM values and choose type of rotor assembly and corresponding glassware to be used during test
- Servoed motor speed mechanism allows the user to simply set the desired speed and calculates RPM based on given RCF and type of rotor selected
- Rotor assembly is easily accessible for cleaning and maintenence and lid window allows operator to view inside the chamber
- Different rotor/tube configurations for different methods
- Equipped with safety lockout mechanism and nitrogen purge

13-626-113

Specifications:

- Maximum Speed: 2200 rpm
- Maximum RCF: 1327 (long); 1170 (short); 865 (pear-shaped)
- Temperature: ambient to 93°C (200°F)
- Electrical Reqts: 230V 50/60 Hz, 3.5A
- Dimensions: 31 × 25.8 × 14.3" (78.74 × 65.53 × 36.32cm)
- Net Weight: 98 lb. (44.5kg)
- Shipping Weight: 122 lb. (55.4kg)
- Shipping Dimensions: 36 × 30 × 19" (91.4 × 76.2 × 48.3cm)

COMPLIANCE:
Meets ASTM D91, D96, D893, D1796 and D4007 specifications.

Automatic Heated Oil Test Centrifuge	Mfr. No.	Cat. No.	Each
Long Tube, 115V, 60Hz	K60002	**13-626-113**	15,943.39
Long Tube, 230V, 50/60Hz	K60092	**13-626-114**	16,236.29
Short Tube, 115V, 60Hz	K60002-ST	**13-626-115**	15,785.54
Short Tube, 230V, 50/60Hz	K60092-ST	**13-626-116**	16,236.28
Pear Tube, 115V, 60Hz	K60002-PT	**13-626-117**	15,817.53
Pear Tube, 230V, 50/60Hz	K60092-PT	**13-626-118**	16,236.28
Finger Tube, 115V, 60Hz	K60002-FT	**13-626-119**	15,785.04
Finger Tube, 230V, 50/60Hz	K60092-FT	**13-626-120**	16,236.28

Cell Washers

Thermo Scientific™ Sorvall™ CW2 Plus Cell Washer

Precise, automated performance for blood cell washing

Desktop size, it offers a time-saving wash cycle, easy-to-read digital displays, easy-to-use touchpad controls and standardized, reproducible procedures. Simply insert the sample tubes, select the test parameters and benefit from reliable results in minutes, time after time.

Fully automated for reproducible results

- Automated Blood Cell Washing: Standardized, consistent procedures eliminate the variations that result from manual protocols
- Automatic Alerts: Indicate if the saline level is low, and when a run is complete

Easy, reliable operation

- Fast, Accurate Results: A time-saving wash cycle, easy-to-read digital displays and easy-to-use touchpad controls ensure standardized, reproducible procedures
- Simple to Use: Simply insert the sample tubes, select the test parameters and achieve reliable results in minutes

Compact and Durable

- Small Footprint: fits neatly on lab bench or desktop
- Solid Construction: Low-maintenance design provides years of trouble-free use
- Brushless motor with sealed-in lubricated bearings
- Pump tubing is easily changed
- High-impact, corrosion-free plastic housing

13-100-670

APPLICATIONS:
Washing and high-speed spin for pelleting red blood cells

ORDERING INFORMATION:
Replacement Tubing Kit (50019), Replacement Rotor (004770F), and Spare Parts Kit (with tubing, 50008) are available separately.

INCLUDES:
Rotor (Cat. No. 004770F)

COMPLIANCE:
510(k) number BK820020

CERTIFICATIONS:
CSA NRTL, CSA, CE

Description	Mfr. No.	Cat. No.	Each
Sorvall CW2 Plus, 120/240V 50Hz	80300566	**13-100-670**	10,090.00

Charcoal

Charcoal

Choice of 6 to 14 mesh (3.35 to 1.40mm particle size) or 50 to 200 mesh (300 to 75µm particle size). For more choices, visit **www.fishersci.com** and search on keyword **Charcoal**.

Quantity	Cat. No.	Each	Case of
6 to 14 Mesh			
1 lb. (454g)	**05-685A**	50.98	12/522.91
4 lb. (1.8kg)	**05-685B**	151.38	4/538.59
50 to 200 Mesh			
1 lb. (454g)	**05-690A**	55.83	12/572.66
4 lb. (1.8kg)	**05-690B**	154.24	4/549.37

05-685B and 05-685A

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Chromatography

HPLC Columns

Thermo Scientific™ Acclaim™ 120 C18 Reversed-Phase Analytical HPLC Columns

Among the many C18 columns on the market, retention behavior of analytes differs significantly due to variation in both the raw silica and the ligand bonding chemistry and density.

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	059128	**DX059128**	401.00
2.1mm	100mm	059129	**DX059129**	523.56
4.6mm	50mm	059131	**DX059131**	401.00
4.6mm	100mm	059132	**DX059132**	535.00

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	059142	**DX059142**	365.18
2.1mm	100mm	059143	**DX059143**	479.50
4.6mm	50mm	059146	**DX059146**	362.03
4.6mm	100mm	059147	**DX059147**	476.00

Thermo Scientific™ Acclaim™ 120 C8 Reversed-Phase Analytical HPLC Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	059134	**DX059134**	372.50
2.1mm	100mm	059135	**DX059135**	467.86
4.6mm	50mm	059138	**DX059138**	362.03
4.6mm	100mm	059139	**DX059139**	467.86

Thermo Scientific™ Acclaim™ PolarAdvantage (PA) Reversed-Phase Analytical HPLC Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	063174	**DX063174**	389.89
2.1mm	100mm	061316	**DX061316**	523.56
2.1mm	150mm	061317	**DX061317**	605.50
3.0mm	250mm	070079	**DX070079**	794.00
4.6mm	150mm	061318	**DX061318**	605.50

Thermo Scientific™ Acclaim™ Organic Acid Reversed-Phase Analytical HPLC Columns

Uses a patented polar-embedded stationary phase allowing a broad range of operating conditions, including 100% aqueous mobile phases

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	070087	**DX070087**	674.00
3.0mm	150mm	070086	**DX070086**	674.00

5µm Particle Size

I. D.	Length	Mfr. No.	Cat. No.	Each
4.0mm	150mm	062903	**DX062903**	635.50
4.0mm	250mm	062902	**DX062902**	738.00

Thermo Scientific™ DNAPac™ PA200 HPLC Columns

Strong anion exchange for high-resolution analysis and purification of synthetic oligonucleotides

I.D.	Length	Mfr. No.	Cat. No.	Each
2mm	250mm	063425	**DX063425**	1036.00
4mm	250mm	063000	**DX063000**	1036.00
9mm	250mm	063421	**DX063421**	2220.00
22mm	250mm	SP6734	**DXSP6734**	5569.73

Thermo Scientific™ Acclaim™ PolarAdvantage II (PA2) Reversed-Phase Analytical HPLC Columns

Silica-based polar-embedded columns for pharmaceutical, environmental, chemical, food, and life science applications

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	063187	**DX063187**	606.50
4.6mm	50mm	063189	**DX063189**	389.89
4.6mm	150mm	063191	**DX063191**	606.50

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
4.6mm	150mm	063197	**DX063197**	605.50
4.6mm	250mm	063199	**DX063199**	674.00

Thermo Scientific™ Dionex™ OnGuard™ II Cartridges

Have wide pH stability and allow low level ion analysis

Material	Capacity	Cat. No.	Each
A	1mL	**DX057091**	209.50
A	2.5mL	**DX057092**	458.50
Ag	1mL	**DX057089**	232.00
Ag/H	2.5mL	**DX057410**	518.50
Ag	2.5mL	**DX057090**	518.50
Ba	1mL	**DX057093**	213.24
Ba	2.5mL	**DX057094**	485.50
Ba/Ag/H	2.5mL	**DX063955**	524.50

Thermo Scientific™ ProSwift™ IEX Monolith HPLC Columns

- Higher resolution than porous bead-based columns while providing high capacity

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	068459	**DX068459**	880.02
4.6mm	50mm	064293	**DX064293**	902.00
1mm	50mm	066642	**DX066642**	880.02
4.6mm	50mm	064294	**DX064294**	902.00

Thermo Scientific™ Acclaim™ Mixed-Mode WAX-1 Analytical HPLC Columns

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	070089	**DX070089**	674.00
3.0mm	50mm	071908	**DX071908**	542.00
3.0mm	150mm	070088	**DX070088**	674.00

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	067084	**DX067084**	635.00
4.6mm	150mm	064984	**DX064984**	635.00
4.6mm	250mm	064985	**DX064985**	743.00

Thermo Scientific™ Acclaim™ Mixed-Mode WCX-1 Analytical HPLC Columns

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	070093	**DX070093**	669.50
3.0mm	50mm	071910	**DX071910**	535.50
3.0mm	150mm	070092	**DX070092**	669.50

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	068371	**DX068371**	630.00
4.6mm	150mm	068353	**DX068353**	640.00
4.6mm	250mm	068352	**DX068352**	742.50

Thermo Scientific™ Acclaim™ 120 C8 Reversed-Phase Analytical Guard Cartridges, 5µm Particle Size

Stable between pH 2 and 8

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	069688	**DX069688**	167.10
3.0mm	10mm	071979	**DX071979**	167.10
4.6mm	10mm	069696	**DX069696**	139.25

Thermo Scientific™ Acclaim™ E2 Explosives Analytical Columns

For EPA Method 8330

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	070083	**DX070083**	657.24
3.0mm	150mm	070082	**DX070082**	657.23
3.0mm	250mm	070081	**DX070081**	774.19

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
4.6mm	250mm	064305	**DX064305**	694.50
4.6mm	250mm	064309	**DX064309**	699.50

Thermo Scientific™ Acclaim™ Mixed-Mode HILIC-1 Analytical HPLC Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	070091	**DX070091**	674.00
3.0mm	50mm	071912	**DX071912**	542.00
3.0mm	150mm	070090	**DX070090**	657.24

Thermo Scientific™ Acclaim™ RSLC 120 C18 Rapid Separation LC Columns

- Accelerate throughput up to 30-fold compared to conventional LC, using the columns in combination with UltiMate™ Intelligent LC systems

2.2µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	30mm	071400	**DX071400**	479.00
2.1mm	50mm	068981	**DX068981**	555.50
2.1mm	100mm	068982	**DX068982**	670.00
3.0mm	30mm	071606	**DX071606**	545.84
3.0mm	50mm	071605	**DX071605**	618.24

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
3.0mm	33mm	066272	**DX066272**	403.95
3.0mm	50mm	068971	**DX068971**	459.50
3.0mm	75mm	066273	**DX066273**	467.86
3.0mm	150mm	063691	**DX063691**	611.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Acclaim™ RSLC PA2 Rapid Separation LC Columns

2.2µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	30mm	071402	**DX071402**	479.00
2.1mm	50mm	068989	**DX068989**	559.50
2.1mm	100mm	068990	**DX068990**	674.50
2.1mm	150mm	071401	**DX071401**	696.50
2.1mm	250mm	074814	**DX074814**	822.00
3.0mm	30mm	071609	**DX071609**	545.84
3.0mm	50mm	071608	**DX071608**	618.24
3.0mm	100mm	071607	**DX071607**	681.74
3.0mm	75mm	075699	**075699**	620.63

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
3.0mm	33mm	066276	**DX066276**	401.02
3.0mm	50mm	068973	**DX068973**	458.50
3.0mm	75mm	066277	**DX066277**	507.50
3.0mm	150mm	063705	**DX063705**	610.50

Thermo Scientific™ Acclaim™ Phenyl-1 Reversed-Phase Analytical HPLC Columns, 3µm Particle Size

- Based on covalent modification of high-purity, spherical, porous silica particles, with a specially designed silane ligand bearing proprietary alkyl aromatic functionality

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	071971	**DX071971**	623.81
3.0mm	50mm	071972	**DX071972**	551.40
3.0mm	100mm	074693	**DX074693**	623.81
3.0mm	150mm	071970	**DX071970**	623.81
3.0mm	250mm	074694	**DX074694**	724.07
4.6mm	150mm	071969	**DX071969**	634.50

Thermo Scientific™ Acclaim™ RSLC PA Rapid Separation LC Columns, 2.2µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	30mm	072621	**DX072621**	493.00
2.1mm	50mm	072622	**DX072622**	565.00
2.1mm	100mm	072623	**DX072623**	657.23
3.0mm	30mm	072625	**DX072625**	545.84
3.0mm	50mm	072626	**DX072626**	618.24
3.0mm	100mm	072627	**DX072627**	681.74

Thermo Scientific™ Dionex™ InGuard™ Cartridges

- Designed to remove matrix interferences such as cations (including transition metals), anions, or hydrophobic substances that are encountered in many ion chromatography (IC) applications

Description	Cat. No.	Pack of 4
Ag	**DX074038**	364.00
H	**DX074037**	364.00
HRP	**DX074034**	350.10
Na	**DX074036**	351.85
Na/HRP	**DX074035**	350.10

Thermo Scientific™ ProSwift™ ConA-1S Affinity Column

I.D.	Length	Mfr. No.	Cat. No.	Each
5mm	50mm	074148	**DX074148**	601.00

Thermo Scientific™ ProPac™ HIC-10 Protein and Peptide Columns

- Based on 5µm ultrahigh purity spherical silica gel particles, with 300Å pores

I.D.	Length	Mfr. No.	Cat No.	Each
2.1mm	100mm	063653	**DX063653**	604.50
4.6mm	100mm	063655	**DX063655**	604.50
4.6mm	250mm	074197	**DX074197**	969.00
7.8mm	75mm	063665	**DX063665**	1077.00

Thermo Scientific™ Acclaim™ HILIC-10 Analytical Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	074259	**DX074259**	635.00
3.0mm	150mm	074258	**DX074258**	639.50
4.6mm	150mm	074257	**DX074257**	639.50

Thermo Scientific™ ProPac™ WCX-10HT Column, 10µm Particle Size

ID	Length	Cat. No.	Each
4mm	50mm	**DX074600**	804.50

Thermo Scientific™ Dionex™ MAbPac™ SCX-10 Ion Exchange Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
2mm	250mm	075604	**DX075604**	1017.00
4mm	50mm	075603	**DX075603**	768.63
4mm	150mm	075602	**DX075602**	880.02
4mm	250mm	074625	**DX074625**	1017.00

Thermo Scientific™ MAbPac™ SCX-10G Ion Exchange Guard Columns

High resolution of monoclonal antibody variants

I.D.	Length	Mfr. No.	Cat No.	Each
4mm	50mm	074631	**DX074631**	336.00

Thermo Scientific™ MAbPac™ SEC-1 Size Exclusion Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
4mm	50mm	074697	**DX074697**	452.50
4mm	150mm	075592	**DX075592**	1030.00
4mm	300mm	074696	**DX074696**	1356.00

Thermo Scientific™ Acclaim™ C30 Analytical Columns, 5µm Particle Size

The combination of advanced surface modification technology and careful matching of the C30 alkyl chain with the pore size of the silica substrate.

I.D.	Length	Mfr. No.	Cat. No.	Each
4.6mm	250mm	075718	**DX075718**	629.06
4.6mm	150mm	075719	**DX075719**	641.28

Thermo Scientific™ Acclaim™ C30 Reversed-Phase LC Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	075725	**DX075725**	674.00
3.0mm	150mm	075724	**DX075724**	674.00
3.0mm	250mm	075726	**DX075726**	742.50
4.6mm	150mm	075723	**DX075723**	674.00

Thermo Scientific™ Acclaim™ PepMap™100 Fusica™ Microbore Columns

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
1.0mm	50mm	160277	**DX160277**	425.71
1.0mm	150mm	160282	**DX160282**	601.02
1.0mm	150mm	161179	**DX161179**	615.32

5µm Particle Size

I.D.	Length	Mfr. No.	Cat No.	Each
PepMap100 C8 or C18				
1.0mm	50mm	160279	**DX160279**	375.95
1.0mm	150mm	160284	**DX160284**	571.65
1.0mm	250mm	160287	**DX160287**	652.45

Thermo Scientific™ Acclaim™ PepMap™100 Fusica™ Capillary Columns, 5µm Particle Size

Inside Dia.	Length	Mfr. No.	Cat No.	Each
PepMap100 C8 or C18				
300µm	50mm	160292	**DX160292**	441.29
300µm	150mm	160297	**DX160297**	580.29
300µm	250mm	160300	**DX160300**	657.76

Thermo Scientific™ Acclaim™ PepMap™100 C18 Fusica™ Capillary Columns, 3um Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
300µm	150mm	160295	**DX160295**	642.47

Thermo Scientific™ Acclaim™ PepMap™100 Nano Series™ Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
50µm	5cm	161563	**DX161563**	705.55
50µm	15cm	161574	**DX161574**	777.65
75µm	5cm	160316	**DX160316**	570.28
75µm	15cm	160321	**DX160321**	669.00
75µm	25cm	164261	**DX164261**	723.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Acclaim™ PepMap™ µ-Guard Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
PepMap300 C4				
300µm	1mm	163937	**DX163937**	118.45
PepMap100 C18				
300µm	1mm	160428	**DX160428**	128.40
800µm	2mm	160424	**DX160424**	118.45
PepMap300 C18				
300µm	1mm	163938	**DX163938**	120.51

Thermo Scientific™ Acclaim™ PepMap™ µ-Precolumns™ Cartridge Columns, 5µm Particle Size

- Used for sample pre-concentration, sample cleanup, or in various column-switching techniques

I.D.	Length	Mfr. No.	Cat. No.	Each
PepMap100 C18				
300µm	5mm	160454	**DX160454**	386.50
500µm	5mm	160446	**DX160446**	386.50
500µm	15mm	160450	**DX160450**	386.50
1.0mm	5mm	160434	**DX160434**	386.50
1.0mm	15mm	160438	**DX160438**	386.50
PepMap100 C8				
300µm	5mm	161194	**DX161194**	386.50
500µm	5mm	161192	**DX161192**	360.50
500µm	15mm	161193	**DX161193**	360.50
1.0mm	5mm	161189	**DX161189**	371.32

Thermo Scientific™ Acclaim™ PepMap™100 C8 Fusica™ Capillary Columns, 3µm Particle Size

- High resolution in protein identification, biomarker discovery and systems biology

I.D.	Length	Mfr. No.	Cat. No.	Each
300µm	50mm	161181	**DX161181**	473.80
300µm	150mm	161182	**DX161182**	642.47

Thermo Scientific™ PepSwift™ Monolithic Capillary Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
100µm	50mm	162348	**DX162348**	865.01
200µm	50mm	161409	**DX161409**	865.01
200µm	50mm	164557	**DX164557**	1000.00
200µm	250mm	164542	**DX164542**	1270.00
500µm	50mm	164087	**DX164087**	865.01

Thermo Scientific™ Acclaim™ PepMap™300 C18 HPLC Columns, 5µm Particle Size

- Virtually zero silanophilic interactions for minimal peak tailing

I.D.	Length	Mfr. No.	Cat. No.	Each
75µm	50mm	163577	**DX163577**	499.55
75µm	150mm	163574	**DX163574**	631.50
300µm	50mm	163580	**DX163580**	454.50
300µm	150mm	163581	**DX163581**	580.29
1.0mm	50mm	163584	**DX163584**	422.30
1.0mm	150mm	163585	**DX163585**	571.65

Thermo Scientific™ Acclaim™ PepMap™300 Fusica™ C4 HPLC Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
75µm	50mm	163578	**DX163578**	499.55
300µm	50mm	163582	**DX163582**	503.59
300µm	150mm	163583	**DX163583**	469.68
1.0mm	50mm	163586	**DX163586**	452.50
1.0mm	150mm	163587	**DX163587**	472.52

Thermo Scientific™ Acclaim™ PepMap™300 C4 HPLC Nanobore Columns

Description	Mfr. No.	Cat. No.	Each
75µm I.D. x 15cm L; Acclaim PepMap300 C4, 5µm	163579	**DX163579**	631.00

Thermo Scientific™ Acclaim™ PepMap™300 µ-Precolumns™ Cartridge Columns, 5µm Particle Size

- For sample pre-concentration, sample cleanup, or in various column-switching techniques

I.D.	Length	Mfr. No.	Cat. No.	Each
PepMap300 C4 or C18				
300µm, 500µm, 800µm or 1mm	5mm	163591	**DX163591**	386.50
800µm	2mm	163941	**DX163941**	118.45
1.0mm	5mm	163594	**DX163594**	371.32
1.0mm	15mm	163595	**DX163595**	406.00
PepMap300 C18				
300µm	5mm	163589	**DX163589**	386.50
500µm	5mm	163945	**DX163945**	386.50
500µm	15mm	163946	**DX163946**	392.53
800µm	2mm	163942	**DX163942**	120.51
1.0mm	5mm	163592	**DX163592**	371.32
1.0mm	15mm	163593	**DX163593**	392.53

Thermo Scientific™ PepSwift™ Monolithic Trap Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
200µm	5mm	163972	**DX163972**	701.83
200µm	5mm	164558	**DX164558**	796.50

Thermo Scientific™ Acclaim™ PepMap™100 Nano-Trap Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat No.	Each
100 or 200µm	1 or 20mm	164197	**DX164197**	260.50
100µm	20mm	164199	**DX164199**	279.00
200µm	10mm	164212	**DX164212**	205.50
200µm	20mm	164213	**DX164213**	224.00

Thermo Scientific™ Acclaim™ PepMap™100 and TiO_2 Nano Trap Columns, 5µm Particle Size

Combine the TiO2 solid phase for enrichment of phosphopeptides with the PepMap100 C18 phase

I.D.	Length	Mfr. No.	Cat No.	Each
100 or 200µm	20mm	164216	**DX164216**	261.90
200µm	20mm	164217	**DX164217**	208.06

Thermo Scientific™ Acclaim™ SCX Columns, Polysulfoethyl Aspartamide (ASP), 5µm Particle Size

Strong cation-exchange separations for peptides

ID	Length	Cat. No.	Each
300µm	100mm	**DX164264**	860.05
300µm	150mm	**DX164263**	695.25
1.0mm	150mm	**DX164262**	900.58

Thermo Scientific™ ProSwift™ RP Protein Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	164397	**DX164397**	864.35
1mm	50mm	069477	**DX069477**	628.00
1mm	250mm	066640	**DX066640**	674.00
4.6mm	50mm	064297	**DX064297**	628.00
4.6mm	50mm	064296	**DX064296**	628.00
4.6mm	50mm	064298	**DX064298**	616.12

Thermo Scientific™ Acclaim™ PepMap™ RSLC Columns

Have 2µm particle sizes, 100Å pore sizes

I.D.	Length	Mfr. No.	Cat No.	Price
50 and 75µm	50, 150, 250 and 500mm	164561	**DX164561**	754.30
50µm	150mm	164562	**DX164562**	772.50
75µm	50mm	164563	**DX164563**	772.50
75µm	150mm	164534	**DX164534**	772.50

Thermo Scientific™ Acclaim™ PepMap™ RSLC Nano-Trap Column with nanoViper™ Fittings

Fused silica columns with fingertight fittings

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
75µm	20mm	164535	**DX164535**	429.00

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
100µm	20mm	164564CMD	**DX164564**	429.00

Thermo Scientific™ PepSwift™ Monolithic Nano Column

I.D.	Length	Mfr. No.	Cat No.	Each
100µm	250mm	164543	**DX164543**	1256.00

Thermo Scientific™ Acclaim™ PepMap™100 Nano LC Columns with nanoViper™ Fittings, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
75µm	50mm	164567	**DX164567**	808.50
75µm	150mm	164568	**DX164568**	809.50
75µm	250mm	164569	**DX164569**	877.00
75µm	500mm	164570	**DX164570**	1002.00
300µm	150mm	164571CMD	**DX164571**	600.50
1mm	150mm	164572	**DX164572**	604.50

Thermo Scientific™ PepSwift™ and ProSwift™ Capillary Monolithic Reversed-Phase Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
100µm	50mm	164584	**DX164584**	994.50
500µm	50mm	164585	**DX164585**	1001.00
1mm	50mm	164586	**DX164586**	1001.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Dionex™ DNAPac™ PA100 HPLC Columns

Inside Dia.	Length	Mfr. No.	Cat. No.	Each
4mm	250mm	043010	**DX043010**	1031.00
9mm	250mm	043011	**DX043011**	2100.00
22mm	250mm	SP2091	**DXSP2091**	5690.00

Thermo Scientific™ DNAPac™ PA100 Guard Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
2.0mm	50mm	SP4016	**DXSP4016**	630.50
4.0mm	50mm	043018	**DX043018**	505.00

WCX-10G Guard Columns

ID	Length	Cat. No.	Each
2mm	50mm	**DX063480**	336.00
4mm	50mm	**DX054994**	336.00

Thermo Scientific™ ProPac™ SCX-10 Columns

SCX-10 Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
2mm	250mm	063456	**DX063456**	1028.00
4mm	250mm	054995	**DX054995**	1028.00
9mm	250mm	063700	**DX063700**	2506.38
22mm	250mm	SP5522	**DXSP5522**	6238.09

SCX-10G Guard Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
2mm	50mm	063462	**DX063462**	336.00

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Thermo Scientific™ ProPac™ SAX-10 Columns

SAX-10 Columns

I.D.	Length	Mfr. No.	Cat No.	Each
2mm	250mm	063448	**DX063448**	1012.00
4mm	250mm	054997	**DX054997**	1017.00
9mm	250mm	063703	**DX063703**	2506.38
22mm	250mm	SP5594	**DXSP5594**	6400.00

SAX-10G Guard Columns

I.D.	Length	Mfr. No.	Cat No.	Each
2mm	50mm	063454	**DX063454**	336.00
4mm	50mm	054998	**DX054998**	336.00

Thermo Scientific™ ProPac™ WAX-10 Columns

Weak anion exchanger (tertiary amine functional group)

WAX-10 Columns

ID	Length	Cat. No.	Each
2mm	250mm	**DX063464**	1028.00
4mm	250mm	**DX054999**	1028.00
9mm	250mm	**DX063707**	2506.38
22mm	250mm	**DXSP5598**	6238.09

WAX-10G Guard Columns

ID	Length	Cat. No.	Each
2mm	50mm	**DX063470**	323.05
4mm	50mm	**DX055150**	336.00

Thermo Scientific™ DNAPac™ PA200 Guard Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
2.0mm	50mm	063423	**DX063423**	507.00
4.0mm	50mm	062998	**DX062998**	507.00
9.0mm	50mm	063419	**DX063419**	735.20
22mm	50mm	SP6731	**DXSP6731**	1949.41

Thermo Scientific™ DNAPac™ PA200 HPLC Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
2mm	250mm	063425	**DX063425**	1036.00
4mm	250mm	063000	**DX063000**	1036.00
9mm	250mm	063421	**DX063421**	2220.00
22mm	250mm	SP6734	**DXSP6734**	5569.73

Thermo Scientific™ Hypersil™ ODS (C18) Columns, 5µm Particle Size

- High efficiency and proven reproducibility
- Exceptionally reliable
- Separation of a wide range of compounds including nonpolar, moderately polar and lipophilic compounds like triglycerides

ORDERING INFORMATION:
Other column dimensions including preparative columns are available. Also available in 10µm. Please call Customer Service for more information.

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	100mm	30105-102130	**30105-102130**	547.50
2.1mm	150mm	30105-152130	**30105-15213T**	596.00
2.1mm	200mm	30105-202130	**30105-202130**	606.50
4mm	150mm	30105-154030	**30105-154030**	547.50
4mm	250mm	30105-254030	**30105-254030**	603.50
4.6mm	50mm	30105-054630	**30105-054630**	480.50
4.6mm	100mm	30105-104630	**03-050-196**	519.50
4.6mm	120mm	30105-124630	**03-050-113**	551.00
10mm	150mm	30105-159070	**30105-159070**	1174.00

Thermo Scientific™ Hypersil™ BDS C18 Columns

- Base-deactivated with minimal residual silanol activity
- Exceptional reproducibility
- Economical, general purpose columns

ORDERING INFORMATION:
Other column dimensions are available. Please call Customer Service for more information.

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	28103-051030	**28103-051030**	666.50
1mm	100mm	28103-101030	**28103-101030**	736.64
2.1mm	30mm	28103-032130	**28103-032130**	597.64
2.1mm	50mm	28103-052130	**28103-052130**	608.50
3mm	50mm	28103-053030	**28103-053030**	609.00
3mm	100mm	28103-103030	**28103-103030**	665.00
4mm	100mm	28103-104030	**28103-104030**	662.00
4mm	150mm	28103-154030	**28103-154030**	704.50
4.6mm	50mm	28103-054630	**28103-054630**	586.50
4.6mm	70mm	28103-074630	**28103-074630**	695.00

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	28105-052130	**28105-052130**	572.00
2.1mm	100mm	28105-102130	**28105-102130**	615.00
3mm	250mm	28105-253030	**28105-253030**	691.00
4mm	125mm	28105-124030	**28105-124030**	648.19
4mm	250mm	28105-254030	**28105-254030**	693.50
4.6mm	250mm	28105-254630	**03-050-117**	687.10
4.6mm	30mm	28105-034630	**28105-034630**	546.56
10mm	250mm	28105-259070	**28105-259070**	1625.00
20mm	250mm	28105-259270	**28105-259270**	3310.00

Thermo Scientific™ Hypercarb™ Drop-in Guard Cartridges

- The 10mm design offers maximum protection with minimal increase in retention
- Compatible with Thermo Scientific Uniguard™ direct connection and stand-alone holders
- Suited to solve problem separations

I.D.	Length	Mfr. No.	Cat. No.	Each
3µm Particle Size				
1mm	10mm	35003-011001	**03170313**	371.00
2.1mm	10mm	35003-012101	**35003-012101**	567.00
3mm	10mm	35003-013001	**35003-013001**	431.00
4mm	10mm	35003-014001	**35003-014001**	431.00
5µm Particle Size				
2.1mm	10mm	35005-012101	**35005-012101**	514.00
3mm	10mm	35005-013001	**35005-013001**	507.00
4mm	10mm	35005-014001	**35005-014001**	514.00
7µm Particle Size				
2.1mm	10mm	35007-012101	**03-170-489**	326.52
4.6mm	10mm	35007-014001	**03-170-491**	338.00

Thermo Scientific™ Hypersil™ GOLD HPLC Columns

Endcapped, ultrapure, silica-based columns with exceptional peak shape and resolution for HPLC and LC/MS

ORDERING INFORMATION:
Other custom column dimensions are available. Please call your local Customer Service for more information.

1.9µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	20mm	25002-021030	**25002-021030**	784.00
1mm	50mm	25002-051030	**25002-051030**	816.50
2.1mm	20mm	25002-022130	**25002-022130**	785.50
2.1mm	50mm	25002-052130	**25002-052130**	824.50
3mm	50mm	25002-053030	**25002-053030**	811.50

3µm Particle Size

ID x L	Mfr. No.	Cat. No.	Each
1 × 50mm	25003-051030	**14-754--500**	692.50
1 × 100mm	25003-101030	**25003-101030**	784.00
2.1 × 20mm	25003-022130	**25003-022130**	664.00
2.1 × 30mm	25003-032130	**25003-032130**	672.00
3 × 20mm	25003-023030	**25003-023030**	635.50
3 × 100mm	25003-103030	**25003-103030**	715.00
4 × 150mm	25003-154030	**25003-154030**	747.50
4.6 × 50mm	25003-054630	**25003-054630**	628.50
4.6 × 100mm	25003-104630	**25003-104630**	712.50

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	30mm	25005-032130	**25005-032130**	568.50

Restek™ UltraShield™ UHPLC PreColumn Filter

- In-line design installs easily with standard fittings

Mfr. No.	Cat. No.	Pack of
24995	**06-715-981**	1/60.38
24996	**06-715-982**	5/235.00
24997	**06-715-983**	10/490.00

Restek™ Pinnacle™ DB Biphenyl HPLC Columns, 1.9µm Particle Size

Highly base-deactivated spherical silica

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	9409252	**06-722-054**	542.50
2.1mm	100mm	9409212	**06-722-055**	634.50

Restek™ Pinnacle™ DB Aqueous C18 HPLC Columns, 1.9µm Particle Size

Highly selective for polar analytes

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	100mm	9418212	**06-722-058**	642.00

Restek™ Ultra II™ Biphenyl HPLC Columns, 3µm Particle Size

Specifically designed for outstanding, scalable chromatography on any HPLC or UHPLC system

I.D.	Length	Mfr. No.	Cat. No.	Each
3.2mm	50mm	9609353	**06-738-399**	435.50
4.6mm	150mm	9609365	**06-738-405**	549.00
With Trident Inlet Fitting				
2.1mm	30mm	9609332-700	**06-738-406**	439.05
2.1mm	50mm	9609352-700	**06-738-407**	439.05
2.1mm	100mm	9609312-700	**06-738-408**	471.92
2.1mm	150mm	9609362-700	**06-738-409**	549.34
3.2mm	30mm	9609333-700	**06-738-410**	439.05
3.2mm	50mm	9609353-700	**06-738-411**	439.05
3.2mm	100mm	9609313-700	**06-738-412**	471.92
3.2mm	150mm	9609363-700	**06-738-413**	549.34

Grace™ Vydac™ 208 MS C8 HPLC Columns

Columns with excellent resolution, sensitivity and recovery

I.D.	Length	Mfr. No.	Cat. No.	Each
500µm	100mm	208MS5.510	**07-650-015**	979.07

Grace™ Vydac™ 208 MS C8 Analytical HPLC Columns

Analytical columns with excellent resolution, sensitivity and recovery

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	208MS5105	**07-650-019**	917.11
2.1mm	100mm	208MS5210	**07-650-024**	667.20
2.1mm	150mm	208MS5215	**07-650-025**	791.50
2.1mm	250mm	208MS52	**07-650-022**	775.56
4.6mm	150mm	208MS5415	**07-650-027**	798.88
4.6mm	250mm	208MS54	**07-650-026**	835.08
1mm	150mm	208MS5115	**AT208MS5115**	918.50

Grace™ Vydac™ 214 MS C4 HPLC Columns

Suitable for small peptides to large intact, undenatured proteins

I.D.	Length	Mfr. No.	Cat. No.	Each
300µm	100mm	214MS5.310	**07-650-037**	1070.43
300µm	250mm	214MS5.325	**07-650-039**	1065.00

Grace™ Vydac™ 214 MS C4 Analytical HPLC Columns, 5µm Particle Size

Suitable for small peptides to large intact, undenatured proteins

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	214MS5105	**07-650-045**	985.00
1mm	150mm	214MS5115	**07-650-047**	1030.00
2.1mm	50mm	214MS5205	**07-650-049**	653.00
2.1mm	150mm	214MS5215	**07-650-051**	806.00
4.6mm	50mm	214MS5405	**07-650-054**	588.07
4.6mm	150mm	214MS5415	**07-650-056**	769.00

Grace™ Vydac™ C4 (214TP) HPLC Columns, 5µm Particle Size

For the separation of polypeptides larger than 4000 to 5000 MW and very hydrophobic polypeptides

I.D.	Length	Mfr. No.	Cat. No.	Each
10mm	250mm	214TP510	**07-650-060**	3180.00

Grace™ Vydac™ 218 MS Polymeric C18 Analytical HPLC Columns, 5µm Particle Size

Suitable for small peptides to large intact, undenatured proteins

Description	I.D.	Length	Mfr.No.	Cat. No.	Each
HPLC Column	1mm	250mm	218MS51	**07-650-097**	989.50
HPLC Column	1mm	50mm	218MS5105	**07-650-098**	1012.00
HPLC Column	2.1mm	250mm	218MS52	**07-650-102**	828.41
HPLC Column	2.1mm	150mm	218MS5215	**07-650-105**	792.00
Guard Cartridge	1mm	10mm	218GD51MS	**AT218GD51MS**	365.50
Guard Kit	1mm	250mm	218GK51MS	**AT218GK51MS**	446.24

Grace™ Vydac™ C18 (218TP) HPLC Columns, 5µm Particle Size

Designed for the separation of peptides less than 4000 to 5000 MW and enzymatic digest fragments

I.D. × L	Mfr. No.	Cat. No.	Each
10 × 250mm	218TP510	**07-650-116**	2190.00

Grace™ Vydac™ 238 MS Monomeric C18 Analytical HPLC Columns, 5µm Particle Size

Analytical columns with excellent resolution, sensitivity and recovery

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	100mm	238MS5210	**07-650-161**	682.00

Hamilton™ Company PRP™-X100 Anion Exchange HPLC Columns

Inside Dia. x Length	Mfr. No.	Cat. No.	Each
4.6 × 250mm	79455	**14-816-109**	776.00
4.1 × 100mm	79439	**14-816-13**	552.00
2.1 × 150mm	79421	**14-816-135**	592.00
4.6 × 150mm	79354	**14-816-71**	649.00
4.1 × 250mm	79433	**14-816-8**	693.09
4.1 × 150mm	79434	**14-816-9**	593.00

Thermo Scientific™ Accucore™ C18 Defender™ Guard Cartridges

I.D. x L	Mfr. No.	Cat. No.	Pack of 4
2.1 × 10mm	17126-012105	**17-126-012105**	493.00
3.0 × 10mm	17126-013005	**17-126-013005**	493.00
4.6 × 10mm	17126-014005	**17-126-014005**	493.00

Thermo Scientific™ Accucore™ C18 HPLC Columns, 2.6µm particle size

Fast separations with excellent resolution and sensitivity.

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	17126-032130	**17-126-032130**	562.50
3.0 × 30mm	17126-033030	**17-126-033030**	560.00
4.6 × 30mm	17126-034630	**17-126-034630**	562.50
2.1 × 50mm	17126-052130	**17-126-052130**	683.50
3.0 × 50mm	17126-053030	**17-126-053030**	690.50
4.6 × 50mm	17126-054630	**17-126-054630**	683.50

Thermo Scientific™ Accucore™ aQ Defender™ Guard Cartridges

Offer easy, economical protection of the main column with minimized impact on retention or efficiency.

I.D. x L	Mfr. No.	Cat. No.	Pack of 4
2.1 × 10mm	17326-012105	**17-326-012105**	491.50
3.0 × 10mm	17326-013005	**17-326-013005**	491.50
4.6 × 10mm	17326-014005	**17-326-014005**	491.50

Thermo Scientific™ Accucore™ aQ HPLC Columns, 2.6µm particle size

Compatible with with 100% aqueous mobile phases and offer special selectivity for polar analytes

I.D. x L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	17326-032130	**17-326-032130**	554.00
3.0 × 30mm	17326-033030	**17-326-033030**	554.00
4.6 × 30mm	17326-034630	**17-326-034630**	561.50
2.1 × 50mm	17326-052130	**17-326-052130**	685.50
3.0 × 50mm	17326-053030	**17-326-053030**	702.50
4.6 × 50mm	17326-054630	**17-326-054630**	682.50

Thermo Scientific™ Accucore™ PFP Defender™ Guard Cartridges

Offer easy, economical protection of the main column with minimized impact on retention or efficiency.

I.D. x L	Mfr. No.	Cat. No.	Each
2.1 × 10mm	17426-012105	**17-426-012105**	496.50
3.0 × 10mm	17426-013005	**17-426-013005**	473.50
4.6 × 10mm	17426-014005	**17-426-014005**	473.50

Thermo Scientific™ Accucore™ PFP HPLC Columns, 2.6µm particle size

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	17426-032130	17-426-032130	564.50
3.0 × 30mm	17426-033030	17-426-033030	551.50
4.6 × 30mm	17426-034630	17-426-034630	551.50
2.1 × 50mm	17426-052130	17-426-052130	689.50
3.0 × 50mm	17426-053030	17-426-053030	686.50
4.6 × 50mm	17426-054630	17-426-054630	670.50

Thermo Scientific™ Accucore™ HILIC Defender™ Guard Cartridges

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 10mm	17526-012105	**17-526-012105**	486.00
3.0 × 10mm	17526-013005	**17-526-013005**	468.00
4.6 × 10mm	17526-014005	**17-526-014005**	470.34

Thermo Scientific™ Accucore™ HILIC HPLC Columns, 2.6µm particle size

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	17526-032130	**17-526-032130**	551.00
3.0 × 30mm	17526-033030	**17-526-033030**	551.00
4.6 × 30mm	17526-034630	**17-526-034630**	551.00
2.1 × 50mm	17526-052130	**17-526-052130**	685.50
3.0 × 50mm	17526-053030	**17-526-053030**	672.50
4.6 × 50mm	17526-054630	**17-526-054630**	686.00

Thermo Scientific™ Accucore™ RP-MS HPLC Columns, 2.6µm particle size

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	17626-032130	**17-626-032130**	563.50
3.0 × 30mm	17626-033030	**17-626-033030**	551.00
4.6 × 30mm	17626-034630	**17-626-034630**	553.50
2.1 × 50mm	17626-052130	**17-626-052130**	685.00
3.0 × 50mm	17626-053030	**17-626-053030**	684.50
4.6 × 50mm	17626-054630	**17-626-054630**	681.50

Thermo Scientific™ Accucore™ PhenylHexyl Defender™ Guard Cartridges

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 10mm	17926-012105	**17-926-012105**	496.50
3.0 × 10mm	17926-013005	**17-926-013005**	491.50
4.6 × 10mm	17926-014005	**17-926-014005**	473.50

Thermo Scientific™ Accucore™ PhenylHexyl HPLC Columns, 2.6µm particle size

I.D. × L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	17926-032130	**17-926-032130**	561.50
3.0 × 30mm	17926-033030	**17-926-033030**	551.00
4.6 × 30mm	17926-034630	**17-926-034630**	551.00
2.1 × 50mm	17926-052130	**17-926-052130**	685.00
3.0 × 50mm	17926-053030	**17-926-053030**	669.50
4.6 × 50mm	17926-054630	**17-926-054630**	685.00

Thermo Scientific™ Hypersil GOLD™ Drop-in Guard Cartridges

I.D.	Length	Mfr. No.	Cat. No.	Pack of 4
3µm Particle Size				
1mm	10mm	25003-011001	**25003-011001**	400.50
2.1mm	10mm	25003-012101	**25003-012101**	400.50
3mm	10mm	25003-013001	**25003-013001**	400.50
4mm	10mm	25003-014001	**25003-014001**	400.50
5µm Particle Size				
2.1mm	10mm	25005-012101	**25005-012101**	350.50
3mm	10mm	25005-013001	**25005-013001**	358.50
4mm	10mm	25005-014001	**25005-014001**	358.50

Thermo Scientific™ Hypersil GOLD™ Javelin™ Guard Columns

I.D.	Length	Mfr. No.	Cat. No.	Pack of 4
3µm Particle Size				
2.1mm	10mm	25003-012106	**25003-012106**	525.00
2.1mm	20mm	25003-022106	**25003-022106**	499.00
3mm	10mm	25003-013006	**25003-013006**	473.00
4mm	10mm	25003-014006	**25003-014006**	525.00
5µm Particle Size				
2.1mm	10mm	25005-012106	**25005-012106**	476.50
4mm	10mm	25005-014006	**25005-014006**	476.50
4mm	20mm	25005-024006	**25005-024006**	452.50

Thermo Scientific™ Hypersil GOLD™ KAPPA™ Capillary Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
3µm Particle Size				
0.18mm	100mm	25003-100265	**25003-100265**	782.03
0.5mm	100mm	25003-100565	**25003-100565**	793.00
5µm Particle Size				
0.10mm	100mm	25005-100165	**25005-100165**	730.34
0.32mm	100mm	25005-100365	**25005-100365**	722.00
0.5mm	50mm	25005-050565	**25005-050565**	725.50

Thermo Scientific™ GOLD Hypersil™ C8 HPLC Columns, 1.9µm particle size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	30mm	25202-032130	**25202-032130**	783.00
2.1mm	50mm	25202-052130	**25202-052130**	832.00
3mm	20mm	25202-023030	**25202-023030**	700.00

3µm Particle Size

Length	Mfr. No.	Cat. No.	Each
I.D.: 2.1mm			
30mm	25203-032130	**25203-032130**	629.52
50mm	25203-052130	**03-050-137**	652.00
100mm	25203-102130	**03-050-133**	693.00
I.D.: 4.6mm			
50mm	25203-054630	**03-050-134**	593.97
150mm	25203-154630	**03-050-142**	773.50

Thermo Scientific™ GOLD Hypersil™ aQ Analytical HPLC Columns, 3µm Particle Size

Length	Mfr. No.	Cat. No.	Each
I.D.: 1mm			
100mm	25303-101030	**03-051-235**	776.00
I.D.: 2.1mm			
30mm	25303-032130	**03-050-502**	657.33
50mm	25303-052130	**03-050-507**	678.50
I.D.: 3mm			
50mm	25303-053030	**03-051-230**	656.82
100mm	25303-103030	**03-051-236**	680.00
I.D.: 4.6mm			
100mm	25303-104630	**03-050-514**	696.50
150mm	25303-154630	**25303-154630**	772.00

Thermo Scientific™ GOLD Hypersil™ PFP HPLC Columns, 1.9, 3 and 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	25405-052130	**25405-052130**	605.50
2.1mm	100mm	25405-102130	**25405-102130**	662.00
2.1mm	150mm	25405-152130	**25405-152130**	678.45
4.6mm	100mm	25405-104630	**25405-104630**	623.50
4.6mm	150mm	25405-154630	**25405-154630**	665.00
4.6mm	250mm	25405-254630	**25405-254630**	696.48

Thermo Scientific™ GOLD Hypersil™ CN Analytical HPLC Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
4.6mm	150mm	25805-154630	**25805-154630**	633.00
4.6mm	250mm	25805-254630	**25805-254630**	722.00

Thermo Scientific™ Hypercarb™ HPLC Columns, 3µm Particle Size

Suited to solve problem separations.

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	30mm	35003-031030	**35003-031030**	865.20
1mm	50mm	35003-051030	**03-170-316**	931.12
2.1mm	30mm	35003-032130	**35003-032130**	950.00
2.1mm	50mm	35003-052130	**35003-052130**	953.00
3mm	100mm	35003-103030	**35003-103030**	1323.00
3mm	150mm	35003-153030	**35003-153030**	1741.00
4.6mm	50mm	35003-054630	**35003-054630**	1239.00

Thermo Scientific™ Hypercarb™ Javelin™ Guard HPLC Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	35005-012106	**35005-012106**	559.00
4mm	20mm	35005-024006	**35005-024006**	559.00

Thermo Scientific™ BetaSil™ Silica Columns, 5µm Particle Size

High surface-area silica columns

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	100mm	70005-101030	**70005-101030**	701.98
2.1mm	50mm	70005-052130	**70005-052130**	608.50
3mm	50mm	70005-053030	**70005-053030**	615.50
3mm	100mm	70005-103030	**70005-103030**	660.50
4.6mm	250mm	70005-254630	**70005-254630**	697.50

Thermo Scientific™ BetaSil™ C18 HPLC Columns, 3µm Particle Size

High surface area with high bonded phase coverage

- Ligand on 100Å silica

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	100mm	70103-101030	**70103-101030**	743.00
2.1mm	50mm	70103-052130	**70103-052130**	660.50
3mm	50mm	70103-053030	**70103-053030**	660.00
4.6mm	50mm	70103-054630	**70103-054630**	593.50

Thermo Scientific™ BioBasic™ AX Anion Exchange Columns

For the separation of proteins, peptides, other anionic species and highly polar molecules

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	73105-051030	**73105-051030**	696.50
2.1mm	50mm	73105-052130	**73105-052130**	697.00
2.1mm	100mm	73105-102130	**73105-102130**	748.00
3mm	50mm	73105-053030	**73105-053030**	676.58
4.6mm	150mm	73105-154630	**73105-154630**	770.57
4.6mm	250mm	73105-254630	**73105-254630**	821.50

Thermo Scientific™ BioBasic™ SEC 300A HPLC Columns

Outstanding size separation of water soluble compounds

I.D.	Length	Particle Size	Mfr. No.	Cat. No.	Each
7.8mm	150mm	5µm	73505-157846	**73505-157846**	1337.00
7.8mm	300mm	5µm	73505-307846	**73505-307846**	1716.00

Thermo Scientific™ Aquasil™ C18 HPLC Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	20mm	77505-022130	**77505-022130**	588.50
2.1mm	50mm	77505-052130	**77505-052130**	594.50
3mm	30mm	77505-033030	**77505-033030**	577.14
3mm	50mm	77505-053030	**77505-053030**	594.00
4.6mm	50mm	77505-054630	**77505-054630**	563.50

Grace™ Vydac™ ProZap™ HPLC Columns, 1.5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	35585	**AT35585**	726.00
2.1mm	20mm	35587	**AT35587**	601.14

Grace Smart™ C18 HPLC Columns, 5µm Particle Size

Inside Diameter	Length	Mfr. No.	Cat. No.	Price
4.6mm	150mm	5138812	**AT5138812**	901.68
4.6mm	250mm	5138810	**AT5138810**	1028.16
2.1mm	150mm	5138811	**AT5138811**	816.00

Grace VisionHT™ C18-P Ultra High-Pressure HPLC Columns; 1.5µm Particle Size

Separations with speed and clarity

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	5139604	**AT5139604**	816.00
2mm	50mm	5139606	**AT5139606**	846.92
2mm	150mm	5148864	**AT5148864**	849.66

Grace VisionHT™ C18-HL Ultra High-Pressure HPLC Columns; 1.5µm Particle Size

Separations with speed and clarity

- Ultra-fast separations with superior efficiency, sensitivity, and resolution
- Exceptional stability for long column lifetimes
- Fully bonded silica, ultra high purity silica

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	20mm	5142540	**AT5142540**	766.73
2mm	50mm	5142546	**AT5142546**	879.00
2mm	100mm	5142547	**AT5142547**	874.65

Grace™ Prevail™ Guard Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Pack of 3
4.6mm	7.5mm	96429	**AT96429**	270.00
4.6mm	100mm	99202	**AT99202**	749.00

Thermo Scientific™ ProPac™ PA1 Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
4mm	50mm	039657	**DX039657**	782.50
4mm	250mm	039658	**DX039658**	1686.00
9mm	250mm	040137	**DX040137**	2060.80

Thermo Scientific™ Dionex™ AS-AP Autosampler Vial Kits

Glass or polypropylene, with caps and septa

Description	Vial Capacity	Mfr. No.	Cat. No.	Pack of 100
With caps and blue septa	10mL	074228	**DX074228**	136.98
With caps and septa	10mL	055058	**DX055058**	110.40

Thermo Scientific™ Acclaim™ Guard Kits

Includes holder and coupler

Description	Mfr. No.	Cat. No.	Each
Acclaim Guard Kit (Holder and coupler) V-1	059526	**DX059526**	186.20
Acclaim Guard Kit (Holder and coupler) V-2	069707	**DX069707**	186.20

Thermo Scientific™ Dionex™ Acclaim™ SST Guard Cartridge Holders

Description	Mfr. No.	Cat. No.	Each
Holder V-1	059456	**DX059456**	146.10
Holder V-2	069580	**DX069580**	174.10

Thermo Scientific™ Acclaim™ 300 Analytical Column

For high resolution separation of proteins and peptides

Description	Mfr.. No.	Cat. No.	Each
Acclaim 300 Analytical Column; 2.1 × 50mm	060263	**DX060263**	389.89
Acclaim 300 Analytical Column; 2.1 × 150mm	060264	**DX060264**	606.50
Acclaim 300 Analytical Column; 3.0 × 150mm	063684	**DX063684**	590.40
Acclaim 300 Analytical Column; 4.6 × 50mm	060265	**DX060265**	389.89
Acclaim 300 Analytical Column; 4.6 × 150mm	060266	**DX060266**	606.50

Thermo Scientific™ Acclaim™ Surfactant Analytical Columns

High-efficiency specialty silica columns for separating anionic, nonionic, and cationic surfactants

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	070085	**DX070085**	674.00
3.0mm	150mm	070084	**DX070084**	674.00

5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	068123	**DX068123**	639.00
4.6mm	150mm	063201	**DX063201**	639.00
4.6mm	250mm	063203	**DX063203**	742.00

Thermo Scientific™ ProPac™ IMAC-10 Immobilized Metal Affinity Chromatography Columns

I.D.	Length	Mfr. No.	Cat. No.	Each
1mm	50mm	063617	**DX063617**	403.50
2mm	50mm	063272	**DX063272**	478.00
4mm	50mm	063276	**DX063276**	507.00
9mm	50mm	063615	**DX063615**	712.92

Thermo Scientific™ Acclaim™ RSLC PolarAdvantage (PA) Rapid Separation LC Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
3.0mm	33mm	066274	**DX066274**	401.02
3.0mm	50mm	068972	**DX068972**	461.00
3.0mm	75mm	066275	**DX066275**	490.14
3.0mm	150mm	063693	**DX063693**	590.40

Thermo Scientific™ Acclaim™ Mixed-Mode HILIC-1 Analytical HPLC Columns, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	150mm	066847	**DX066847**	618.24
4.6mm	150mm	066843	**DX066843**	630.00
4.6mm	250mm	066844	**DX066844**	737.00

Thermo Scientific™ Acclaim™ RSLC PA2 Rapid Separation LC Columns

Accelerate separations up to 15-fold compared to conventional LC

2.2µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	30mm	071402	**DX071402**	479.00
2.1mm	50mm	068989	**DX068989**	559.50
3.0mm	30mm	071609	**DX071609**	545.84
3.0mm	50mm	071608	**DX071608**	618.24

3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
3.0mm	33mm	066276	**DX066276**	401.02
3.0mm	50mm	068973	**DX068973**	458.50
3.0mm	75mm	066277	**DX066277**	507.50
3.0mm	150mm	063705	**DX063705**	610.50

Thermo Scientific™ Dionex™ Acclaim™ SST Guard Cartridge Holders

Description	Mfr. No.	Cat. No.	Each
Holder V-1	059456	**DX059456**	146.10
Holder V-2	069580	**DX069580**	174.10

Thermo Scientific™ Acclaim™ 120 C18 Reversed-Phase Analytical Guard Cartridges, 5µm Particle Size

Suitable for pH 2.0 to 8.0

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	069689	**DX069689**	174.10
3.0mm	10mm	071981	**DX071981**	174.10
4.6mm	10mm	069695	**DX069695**	146.10

Thermo Scientific™ Acclaim™ 300 Guard Cartridges

Dimensions	Mfr. No.	Cat. No.	Each
2.1 x 10mm	069690	**DX069690**	167.10
4.6 x 10mm	069697	**DX069697**	139.25

Thermo Scientific™ Acclaim™ PolarAdvantage (PA) Reversed-Phase Guard Cartridges, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	069691	**DX069691**	174.10
3.0mm	10mm	071983	**DX071983**	174.10
4.6mm	10mm	069698	**DX069698**	139.25

Thermo Scientific™ Acclaim™ PolarAdvantage II (PA2) Reversed-Phase Guard Cartridges, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	069692	**DX069692**	174.10
3.0mm	10mm	071985	**DX071985**	174.10
4.6mm	10mm	069699	**DX069699**	146.10

Thermo Scientific™ Acclaim™ Organic Acid Reversed-Phase Guard Cartridges, 5µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
3.0mm	10mm	071987	**DX071987**	172.80
4.6mm	10mm	069700	**DX069700**	146.10

Thermo Scientific™ Acclaim™ Trinity™ P1 Analytical Columns, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	50mm	075565	**DX075565**	615.00
2.1mm	100mm	071389	**DX071389**	791.00
3.0mm	50mm	071388	**DX071388**	615.00
3.0mm	100mm	071387	**DX071387**	791.00

Thermo Scientific™ Acclaim™ Trinity™ Guard Cartridges, 3µm Particle Size

I.D.	Length	Mfr. No.	Cat. No.	Each
2.1mm	10mm	071391	**DX071391**	174.10
3.0mm	10mm	071390	**DX071390**	174.10

Thermo Scientific™ Accucore™ 150-C18 HPLC Columns, 2.6µm Particle Size

I.D. x L	Mfr. No.	Cat. No.	Each
2.1 × 30mm	16126-032130	**038-98-100**	546.00
3.0 × 30mm	16126-033030	**038-98-101**	546.00
4.6 × 30mm	16126-034630	**038-98-102**	546.00
2.1 × 50mm	16126-052130	**038-98-103**	663.52
3.0 × 50mm	16126-053030	**038-98-104**	663.52
4.6 × 50mm	16126-054630	**038-98-105**	663.52

Thermo Scientific™ Accucore™ 150-C4 HPLC Columns, 2.6um Particle Size

Lower hydrophobic retention, ideal for optimal retention of proteins and larger peptides

I.D. x L	Mfr. No.	Cat. No.	Each
2.1 × 100mm	16526-102130	**03-898-123**	795.00

Restek™ UltraShield™ UHPLC PreColumn Filter

Mfr. No.	Cat. No.	Pack of
24995	**06-715-981**	1/60.38
24996	**06-715-982**	5/235.00
24997	**06-715-983**	10/490.00

Restek™ UltraLine™ UHPLC In-Line Filter

Inlet Outlet Ports	Pore Size	Width	Thickness	Mfr. No.	Cat. No.	Each
Female/ Female 10-32	0.5µm	0.125 in.	0.062 in.	24993	**06-715-984**	154.90

Thermo Scientific™ Accucore™ C8 HPLC Columns, 2.6µm particle size

I.D. x L	Mfr. No.	Cat. No.	Each
2.1 x 30mm	17226-032130	**17226-032130**	906.50
3.0 x 30mm	17226-033030	**17226-033030**	546.00
4.6 x 30mm	17226-034630	**17226-034630**	891.69
2.1 x 50mm	17226-052130	**17226-052130**	1083.61
3.0 x 50mm	17226-053030	**17226-053030**	663.52
4.6 x 50mm	17226-054630	**17226054630**	663.52

Thermo Scientific™ BioBasic™ 8 PEEK Guard Cartridges

I.D.	Length	Particle Size	Mfr. No.	Cat. No.	Pack of 3
2.1mm	10mm	5µm	72305-012103	**72305-012103**	373.12

HPLC Accessories

Thermo Scientific™ SLIPFREE™ Connectors

Double

Universal self-adjusting connections

Description	I.D.	Length	Mfr. No.	Cat. No.	Each
Double	0.005"	6cm	30206	**03-150-552**	116.70
Double	0.005"	10cm	30110	**03-260-180**	72.21
Double	0.005"	20cm	30220	**03-150-554**	116.70
Double Flexible	0.005"	10.5cm	30211-FLEX	**30211-FLEX**	170.30
Double Flexible	0.005"	15cm	30215-FLEX	**30215-FLEX**	164.70
Double PEEK Collared	0.010"	6cm	31406	**31406**	112.79
Double PEEK Collared	0.010"	10cm	31410	**31410**	113.20
Double PEEK Collared	0.020"	20cm	32420	**32420**	108.88
Double Long-Neck	0.020"	10cm	32710	**32710**	116.60

Single

I.D.	Length	Mfr. No.	Cat. No.	Each
Single				
0.010"	30cm	31130	**31130**	76.95
0.020"	6cm	32106	**03-170-311**	76.95
Single Flexible				
0.005"	15cm	30115-FLEX	**03-150-532**	129.80
Single PEEK Collared				
0.020"	20cm	32320	**03-050-110**	78.90

Thermo Scientific™ SLIPFREE™ Sample Loops

Feature a self-adjusting, leak-free design

I.D.	Length	Volume	Cat. No.	Each
0.10"	20cm	10µL	**31620**	151.00
0.10"	40cm	20µL	**31640**	167.70
0.20"	25cm	50µL	**32625**	191.80
0.20"	50cm	100µL	**32650**	241.00
0.20"	125cm	250µL	**32699**	249.50

Thermo Scientific™ Javelin™ Direct-Connection Column Filters

One-piece filter protects HPLC systems

I.D.	Cat. No.	Pack of 4
3.0mm	**88700**	104.60
4.6/4.0mm	**88400**	104.60

Thermo Scientific™ Dionex™ Blue Septa

Mfr. No.	Cat. No.	Each
074238	**DX074238**	68.24

Thermo Scientific™ µ-Precolumn Holders

With universal fitting

Description	Mfr. No.	Cat. No.	Each
µ-Precolumn Holder, 5mm, with 30µm I.D. connecting tubing	160431	**DX160431**	211.00
µ-Precolumn Holder, 15mm, with 60µm I.D. connecting tubing	160432	**DX160432**	222.00

Thermo Scientific™ Dionex™ Fused Silica Tubing

Excellent chemical durability and inertness

I.D.	O.D.	Length	Mfr. No.	Cat. No.	Each
10µm	375µm	5m	160616	**DX160616**	182.00
15µm	375µm	3.2m	163933	**DX163933**	93.30
15µm	375µm	5m	161101	**DX161101**	181.00
20µm	280µm	5m	160475	**DX160475**	182.00
25µm	280µm	5m	160476	**DX160476**	182.00

Thermo Scientific™ Dionex™ PEEK Tubing Cutter

Guillotine with 1/16" and 1/8" guide holes

Mfr. No.	Cat. No.	Each
160484	**DX160484**	136.50

Thermo Scientific™ Dionex™ Specially Formulated PTFE Tubing

Description	Mfr. No.	Cat. No.	Pack of
180µm I.D., low pressure connection of 180µm O.D. f.s. capillaries	161029	**DX161029**	5/11.67
180µm and 250µm I.D., for connection of 180µm with 280µm O.D. f.s. capillaries	160488	**DX160488**	2/13.16
250µm I.D., low pressure connection of 280µm O.D. f.s. capillaries	160486	**DX160486**	5/13.23

Thermo Scientific™ Dionex™ PEEK Sleeves

Precision cut and polished

Outside Diameter	Mfr. No.	Cat. No.	Pack of
For connections with fused silica tubing			
150µm	160491	**DX160491**	5/46.35
280µm	160492	**DX160492**	5/27.60
30µm	160493	**DX160493**	5/27.60
For connections with Microtight Union			
280µm	161498	**DX161498**	10/51.90
360µm	161405	**DX161405**	10/51.60

Thermo Scientific™ Dionex™ Protein Mixture Digest

Lyophilized

Description	Mfr. No.	Cat. No.	Each
Protein mixture digest, 100 pmol, Lyophilized	161088	**DX161088**	143.40

Thermo Scientific™ Dionex™ Cytochrome C Digest

Lyophilized

Description	Quantity	Mfr. No.	Cat. No.	Each
Cytochrome c digest, 1,6 nmol, Lyophilized	1.6mmol	161089	**DX161089**	72.10

Thermo Scientific™ Dionex™ Viper™ Capillary Kits, Single Systems

Description	Mfr. No.	Cat. No.	Each
RS System	6040.2301	**DX60402301**	358.69
SD System	6040.2302	**DX60402302**	331.00

Thermo Scientific™ Dionex™ Viper™ Capillary Fittings for Micro and Rapid Separation System Variants

Length	Cat. No.	Each
150mm	**DX60402315**	118.10
250mm	**DX60402325**	121.60
350mm	**DX60402335**	122.70
450mm	**DX60402345**	125.10
550mm	**DX60402305**	126.80

Thermo Scientific™ Dionex™ Viper™ Capillary Fittings for Analytical System Variants

Length	Cat. No.	Each
150mm	**DX60402360**	98.50
250mm	**DX60402385**	100.80
650mm	**DX60402395**	107.70
350mm	**DX60402375**	101.90
450mm	**DX60402365**	104.20

Gas Chromatography Columns

Thermo Scientific™ TraceGOLD TG-17MS GC Columns

Particularly suited to GCMS applications that require more polarity than a 5% phenyl phase

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.25mm				
30m	0.25µm	26089-1420	**26-089-1420**	554.50
60m	0.25µm	26089-1540	**03-052-623**	969.18

Thermo Scientific™ TraceGOLD TG-5MS GC Columns

Widely used MS phase in gas chromatography

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.25mm				
10m	0.25µm	26098-1180	**03-052-625**	386.73
15m	0.25µm	26098-1300	**26-098-1300**	363.00
30m	0.25µm	26098-1420	**26-098-1420**	624.50
I.D.: 0.32mm				
30m	0.25µm	26098-1430	**26-098-1430**	633.42
30m	0.5µm	26098-2240	**26-098-2240**	633.50
I.D.: 0.53mm				
30m	0.5µm	26098-2250	**26-098-2250**	706.50
30m	1.5µm	26098-3360	**26-098-3360**	706.50

Thermo Scientific™ TraceGOLD TG-5HT GC Columns

Offers extended operation up to 400°C, ideal for high temperature GC applications

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.25mm				
15m	0.25µm	26095-1300	**03-052-723**	484.12
30m	0.25µm	26095-1420	**26-095-1420**	671.50
I.D.: 0.53mm				
10m	0.15µm	26095-1640	**14754511**	374.43

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Restek™ Rxi™-5ms Capillary Columns

Low-polarity phase, Crossbond™ 5% diphenyl/95% dimethyl polysiloxane

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.18mm				
20m	0.30µm	13409	**06734707**	442.94
20m	0.36µm	13411	**06715431**	451.15
I.D.: 0.20mm				
50m	0.33µm	13499	**06734709**	811.37
I.D.: 0.25mm				
15m	0.25µm	13420	**06715432**	340.66
15m	0.50µm	13435	**06715440**	336.30
30m	0.25µm	13423	**06715435**	562.24
I.D.: 0.32mm				
30m	0.50µm	13439	**06715444**	589.20
30m	1.0µm	13454	**06715451**	589.20
I.D.: 0.53mm				
30m	0.25µm	13425	**06715437**	616.38
30m	1.0µm	13455	**06715452**	646.50
30m	1.5µm	13470	**06715456**	655.59

Thermo Scientific™ TRACE™ TR-SimDist GC Columns

Feature a low polarity phase for high temperature analyses

Film Thickness	Max. Operating Temperature	Mfr. No.	Cat. No.	Each
Length: 5m				
0.1µm	430°C	26AS007P	**26AS007P**	345.10
0.17µm	430°C	26AS083P	**26AS083P**	345.10
Length: 10m				
0.1µm	430°C	26AS025P	**26AS025P**	390.48
2.65µm	370°C	260S348P	**03-150-118**	330.00

Thermo Scientific™ TRACE™ TR-V1 GC Columns

Mid-polarity, thick-film columns

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.32mm				
30m	1.80µm	260V339P	**03-150-121**	711.50

Thermo Scientific™ TRACE™ TR-5MS GC Columns

Feature a popular GCMS phase for many applications

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.25µm	260F142P	**260F142P**	681.00
0.25mm	30m	0.50µm	260F223P	**03-150-219**	673.00
0.32mm	30m	0.50µm	260F224P	**03-150-220**	609.50
0.32mm	30m	1.00µm	260F297P	**26-0F2-97P**	608.88

Thermo Scientific™ TRACE™ TR-FAME GC Columns

High polarity phase optimized for FAME analysis

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	60m	0.25µm	260M154P	**03-150-244**	1107.00

Thermo Scientific™ TRACE™ TR-WaxMS GC Columns

Feature a high polarity phase designed for mass spectometry detectors

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.25mm				
30m	0.25µm	260X142P	**03-150-706**	716.00

Thermo Scientific™ TRACE™ GC Columns for Specific EPA Methods

Low bleed and temperature-stable performance tailored to specific EPA methodologies

ID	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.18mm	20m	1.0µm	26RV495P	03-150-721	550.18
0.25mm	30m	0.25µm	26RX142P	03-150-722	967.56

Thermo Scientific™ Hypersil™ TraceGOLD TG-5MT Metal GC Columns

I.D.	Film Thickness	Length	Mfr. No.	Cat. No.	Each
0.25mm	0.10µm	15m	26M980350	**03-155-014**	331.39
0.25mm	0.25µm	15m	26M981300	**03-155-015**	331.39
0.25mm	0.25µm	30m	26M981420	**03-155-016**	574.67
0.53mm	1.00µm	15m	26M982860	**03-155-020**	390.45
0.53mm	0.25µm	30m	26M981440	**03-155-021**	686.80
0.53mm	0.50µm	30m	26M982250	**03-155-022**	686.80

Thermo Scientific™ Hypersil™ TraceGOLD TG-5 MS Guard GC Columns with SafeGuard

- With integrated SafeGuard
- Available in a range of phases

I.D.	Film Thickness	Length	Mfr. No.	Cat. No.	Each
0.18mm	0.18µm	20m	260985785	**03-155-040**	593.13
0.25mm	0.25µm	15m	260981305	**03-155-041**	428.91
0.25mm	0.10µm	30m	260980475	**03-155-042**	667.59
0.25mm	0.25µm	30m	260981425	**03-155-043**	669.50
0.32mm	0.25µm	30m	260981435	**03-155-044**	689.52
0.25mm	0.50µm	30m	260982235	**03-155-045**	655.35

Restek™ Rtx™-1 Capillary Columns

- Nonpolar; coated with crossbonded polydimethylsiloxane (100% dimethylpolysiloxane)
- Manufactured from high-quality fused silica tubing
- Surrounded by a rugged stainless-steel cage

30m Length

I.D.	Film Thickness	Temperature Range	Mfr. No.	Cat. No.	Each
0.25mm	0.10µm	-60 to +350°C	10108	**06-708-229**	517.92
0.32mm	0.10µm	-60 to +350°C	10109	**06-708-233**	540.47
0.32mm	0.50µm	-60 to +350°C	10139	**06-708-322**	540.08
0.32mm	1.00µm	-60 to +340°C	10154	**06-708-366**	540.08
0.32mm	3.00µm	-60 to +300°C	10184	**06-708-474**	540.76
0.53mm	1.00µm	-60 to +330°C	10155	**06-708-376**	605.79
0.53mm	5.00µm	-60 to +290°C	10179	**06-708-446**	605.79

60 to 105m Lengths

I.D.	Film Thick-ness	Temperature Limit	Mfr. No.	Cat. No.	Each
60m length					
0.32mm	0.25µm	-60 to +350°C	10127	**06-708-291**	954.33
0.32mm	1.00µm	-60 to +340°C	10157	**06-708-392**	954.33
105m length					
0.25mm	1.00µm	-60 to +340°C	10159	**06-708-404**	1015.18

Restek™ Rtx™-5 Capillary Columns

Similar to DB-5, SPB-5, HP-5, and Ultra II columns

Inside Diameter	Film Thickness	Temperature Limit	Mfr. No.	Cat. No.	Each
0.25mm	0.10µm	-60 to +350°C	10208	**06-708-527**	528.50
0.25mm	0.25µm	-60 to +350°C	10223	**06-708-561**	517.50
0.32mm	0.50µm	-60 to +350°C	10239	**06-708-628**	551.00
0.32mm	1.00µm	-60 to +350°C	10254	**06-708-675**	552.00
0.53mm	0.50µm	-60 to +330°C	10240	**06-708-639**	599.00
0.53mm	1.00µm	-60 to +330°C	10255	**06-708-689**	619.00

Restek™ Rtx™-35 Capillary Columns

Similar to DB-35, DB-35MS, HP-35, SPB-35, SPB-608

Film Thickness	Temperature Limit	Mfr. No.	Cat. No.	Each
I.D.: 0.32mm				
0.50µm	0 to 310°C	10439	**06-708-882**	551.00
I.D.: 0.53mm				
1.00µm	0 to 280°C	10455	**06-708-910**	605.79

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Prices subject to change.

Restek™ Stabilwax™ Capillary Columns

Polyethylene glycol phase resists damage from oxygen or moisture

I. D.	Film Thickness	Temp. Limits	Mfr. No.	Cat. No.	Each
15m length					
0.53mm	0.50µm	40 to 250°C	10637	**06-709-061**	364.00
0.53mm	1.00µm	40 to 240/250°C	10652	**06-709-095**	368.50
30m length					
0.32mm	0.25µm	40 to 250°C	10624	**06-709-030**	561.50
0.32mm	0.50µm	40 to 250°C	10639	**06-709-067**	561.50
0.53mm	0.25µm	40 to 250°C	10625	**06-709-038**	626.00
0.53mm	0.50µm	40 to 250°C	10640	**06-709-077**	626.00
60m length					
0.32mm	0.50µm	40 to 250°C	10642	**06-709-085**	982.50
0.32mm	1.00µm	40 to 240/250°C	10657	**06-709-119**	982.50
0.53mm	1.00µm	40 to 240/250°C	10658	**06-709-125**	1029.00

Restek™ Rtx™-502.2 Capillary Columns

Application-specific columns with unique selectivity for volatile organics

I.D.	Film	Temp. Limits	Mfr. No.	Cat. No.	Each
30m Length					
0.25mm	1.40µm	-20 to +250/270°C	10915	**06-709-269**	562.50
0.32mm	1.80µm	-20 to +250/270°C	10919	**06-709-272**	576.20

Restek™ Rtx™-624 Capillary Columns

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.18mm	20m	1.00µm	40924	**06-713-206**	464.50
0.25mm	60m	1.40µm	10969	**06-709-290**	915.50
0.32mm	60m	1.80µm	10972-042	**06-709-306**	1007.00
0.53mm	30m	3.00µm	10971	**06-709-299**	644.00
0.53mm	75m	3.00µm	10974	**06-709-313**	1186.00
Includes 5m Integra-Guard					
0.53mm	105m	3.00µm	10975	**06-709-317**	1289.00
Includes 10m Integra-Guard					
0.25mm	30m	1.40µm	10968-124	**06-709-288**	648.00
0.32mm	60m	1.80µm	10972-6850	**06-709-310**	963.50
Includes Cage					
0.53mm	30m	3.00µm	10971-600	**06-709-304**	3540.00

Restek™ Stabilwax™-DA Capillary Columns

Similar in polarity to DB-FFAP, OV-351, NUKOL FFAP, HP FFAP

I.D.	Film Thickness	Mfr. No.	Cat. No.	Each
Length: 15m				
0.53mm	1.00µm	11052	**06-709-381**	385.48
Length: 30m				
0.25mm	0.25µm	11023	**06-709-342**	535.20
0.25mm	0.50µm	11038	**06-709-367**	528.35
0.32mm	0.25µm	11024	**06-709-347**	572.60
0.32mm	1.00µm	11054	**06-709-385**	565.27
0.53mm	0.25µm	11025	**06-709-350**	644.51
0.53mm	1.50µm	11065	**06-709-397**	644.51
Length: 60m				
0.32mm	0.50µm	11042	**06-709-374**	963.96
0.32mm	1.00µm	11057	**06-709-391**	963.96

Restek™ Rtx™-CLPesticides Capillary Columns

Designed to overcome the coelutions and analyte breakdown typically encountered in organochlorine pesticide and herbicide analyses

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	15m	0.25µm	11120	**06-709-400**	380.54
0.25mm	30m	0.25µm	11123	**06-709-401**	584.00
0.32mm	15m	0.50µm	11136	**06-709-403**	416.00
0.32mm	30m	0.50µm	11139	**06-709-405**	606.00

Restek™ Rtx™-CL Pesticides Column Kits

Application-specific columns for organochlorine pesticides and herbicides

Mfr. No.	Cat. No.	Each
11198	**06-709-418**	1175.00

Restek™ Rtx™-CLPesticides2 Capillary Columns

Application-specific columns for organochlorine pesticides and herbicides

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.20µm	11323	**06-709-441**	582.50
0.32mm	30m	0.25µm	11324	**06-709-442**	615.50
0.53mm	30m	0.42µm	11340	**06-709-448**	677.50

Restek™ Rtx™-1701 Capillary Columns

Use in conjunction with an Rtx-35/MXT™-35 or Rtx-5/MXT-5 column for confirmatory analysis

Film Thickness	Temperature Limit	Mfr. No.	Cat. No.	Each
I.D.: 0.25mm				
0.25µm	-20 to +280°C	12023	**06-709-534**	505.63
1.00µm	-20 to +280°C	12053	**06-709-591**	516.50
I.D.: 0.32mm				
0.50µm	-20 to +280°C	12039	**06-709-568**	550.50
1.00µm	-20 to +280°C	12054	**06-709-594**	538.78
I.D.: 0.53mm				
1.00µm	-20 to +270°C	12055	**06-709-597**	604.34
1.50µm	-20 to +260°C	12070	**06-709-620**	617.50

Restek™ Rtx™-WAX Capillary Columns

With excellent selectivity compared to other Carbowax™ columns

I.D.	Film Thickness	Temp. Limits	Mfr. No.	Cat. No.	Each
15m length					
0.53mm	1.00µm	20 to 240/250°C	12452	**06-709-774**	367.65
30m length					
0.25mm	0.25µm	20 to 250°C	12423	**06-709-747**	516.92
0.32mm	0.50µm	20 to 250°C	12439	**06-709-765**	550.08
0.53mm	1.00µm	20 to 240/250°C	12455	**06-709-777**	620.40
60m length					
0.32mm	0.25µm	20 to 250°C	12427	**06-709-756**	973.34

Restek™ FAMEWAX™ Capillary Columns

Application-specific columns for FAMEs

I.D.	Length	Film Thickness	Temp. Limits	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.25µm	20° to 250°C	12497	**06-709-787**	535.50
0.32mm	30m	0.25µm	20° to 250°C	12498	**06-709-788**	590.50

Restek™ Rtx™-5MS Capillary Columns

Developed specifically for GC/MS

I.D.	Film	Temp. Limits	Mfr. No.	Cat. No.	Each
15m length					
0.25mm	0.25µm	-60 to +350°C	12620	**06-709-805**	344.00
30m length					
0.25mm	0.10µm	-60 to +350°C	12608	**06-709-797**	567.50
0.25mm	0.25µm	-60 to +350°C	12623	**06-709-811**	554.00
0.32mm	0.25µm	-60 to +350°C	12624	**06-709-821**	595.50
0.32mm	0.50µm	-60 to +350°C	12639	**06-709-849**	587.55
60m length					
0.25mm	0.25µm	-60 to +350°C	12626	**06-709-828**	903.00

Restek™ Rtx™-5Sil MS Capillary Columns

Ideal "scouting column" for method development

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.25µm	12723	**06-709-904**	578.12
0.25mm	30m	0.50µm	12738	**06-709-921**	589.00
Cage Included					
0.25mm	30m	0.25µm	12723-6850	**06-709-910**	571.00
10m Integra-Guard					
0.28mm	30m	0.25µm	12793-244	**06-709-949**	707.50

Restek™ Rtx™-VMS Capillary Columns

Provide complete separation of all U.S. EPA Method 8260 compounds in less than 18 minutes

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.18mm	20m	1.00µm	49914	**06-713-258**	510.50
0.18mm	40m	1.00µm	49915	**06-713-261**	859.00
0.25mm	60m	1.40µm	19916	**06-710-490**	960.50
0.32mm	60m	1.80µm	19920	**06-710-493**	1021.00

Restek™ MXT™-1HT Sim Dist (metal, Siltek™ treated) Capillary Columns

Proprietary deactivation process applied to stainless-steel tubing

I.D.	Length	Film Thickness	Includes	Mfr. No.	Cat. No.	Each
0.53mm	5m	0.10µm	Column only	70100	**06-713-284**	473.00

Restek™ Rxi™-1ms Capillary Columns

Nonpolar phase, Crossbond™ 100% dimethyl polysiloxane

I.D.	Length	Film Thickness	Temperature Range	Mfr. No.	Cat. No.	Each
0.18mm	20m	0.18µm	-60 to +330/350°C	13302	**06-715-400**	471.00
0.25mm	30m	0.25µm	-60 to +330/350°C	13323	**06-715-404**	578.50
0.32mm	30m	1.0µm	-60 to +330/350°C	13354	**06-715-420**	589.20
0.53mm	15m	1.0µm	-60 to +330/350°C	13352	**06-715-418**	384.00

Restek™ Rxi™-5Sil MS Capillary Columns

Exceptionally inert columns for GC/MS and trace level analyses

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.50µm	13638	**06-802-922**	587.00
With 5m Integra-Guard					
0.25mm	30m	0.25µm	13623-124	**06-802-937**	666.00
0.25mm	30m	0.50µm	13638-124	**06-802-942**	664.05
With 10m Integra-Guard					
0.25mm	15m	0.25µm	13620-127	**06-802-936**	449.05
0.25mm	30m	0.25µm	13623-127	**06-802-938**	696.50

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Restek™ Rxi™-XLB GC Columns

General-purpose columns exhibiting extremely low bleed

I.D.	Length	Film Thickness	Temperature Range	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.25µm	30 to 340°C	13723	**06-802-927**	592.50
0.25mm	30m	0.50µm	30 to 340°C	13738	**06-802-930**	584.50

Thermo Scientific™ TracePLOT TG-BOND Msieve 5A GC Columns

Designed for separation of Ar/O_2 and other permanent gases

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.32mm				
15m	30µm	26003-6010	**26003-6010**	751.70
30m	30µm	26003-6040	**26003-6040**	1065.00
0.53mm				
15m	50µm	26003-6070	**26003-6070**	786.69
30m	50µm	26003-6100	**26003-6100**	1145.00

Thermo Scientific™ TraceGOLD TG-POLAR GC Columns

Specifically designed polymer and surface treatment overcome traditional problems with high-polarity columns

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	30m	0.1µm	26082-0470	**26082-0470**	552.20
0.25mm	60m	0.1µm	26082-0590	**26082-0590**	992.82
0.25mm	105m	0.1µm	26082-5000	**26082-5000**	1222.00
0.32mm	30m	0.2µm	26082-5040	**26082-5040**	599.47
0.32mm	60m	0.2µm	26082-5050	**26082-5050**	1052.00
0.32mm	105m	0.2µm	26082-5060	**26082-5060**	1305.00
0.53mm	30m	0.1µm	26082-0490	**26082-0490**	663.77
0.53mm	60m	0.1µm	26082-0610	**26082-0610**	1134.00

Thermo Scientific™ TraceGOLD TG-624 GC Columns

Offer 90+% resolution of the first six gases in EPA Method 8260 and EPA Method 524.2 for volatile organics analysis

- Low to mid-polarity phase, 6% cyanopropylphenyl

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.18mm	20m	1µm	26085-4950	**26085-4950**	475.61
0.18mm	40m	1µm	26085-4960	**26085-4960**	857.60
0.25mm	30m	1.4µm	26085-3320	**26085-3320**	603.50
0.32mm	30m	1.8µm	26085-3390	**26085-3390**	667.00
0.32mm	60m	1.8µm	26085-3410	**26085-3410**	1047.00
0.53mm	30m	3µm	26085-3960	**26085-3960**	682.50
0.53mm	60m	3µm	26085-4080	**26085-4080**	1102.00
0.53mm	75m	3µm	26085-4900	**26085-4900**	1305.00
0.53mm	105m	3µm	26085-4090	**26085-4090**	1419.00

Thermo Scientific™ TraceGOLD TG-WaxMS A GC Columns

Acidic functionality in the polymer structure allows analysis of acidic compounds without derivatization

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	15m	0.25µm	26087-1300	**26087-1300**	347.01
0.25mm	30m	0.25µm	26087-1420	**26087-1420**	566.61
0.25mm	60m	0.25µm	26087-1540	**26087-1540**	1003.00
0.32mm	15m	0.25µm	26087-1310	**26087-1310**	358.36
0.32mm	30m	0.25µm	26087-1430	**26087-1430**	625.26
0.32mm	60m	0.25µm	26087-1550	**26087-1550**	1045.00
0.53mm	15m	0.25µm	26087-1320	**26087-1320**	399.02
0.53mm	30m	0.25µm	26087-1440	**26087-1440**	675.12
0.53mm	60m	0.25µm	26087-1560	**26087-1560**	1148.00

Thermo Scientific™ TraceGOLD TG-WaxMS GC Columns

Manufactured for better column-to-column reproducibility

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.1mm				
10m	0.1µm	26088-0200	**26088-0200**	351.74
I.D.: 0.15mm				
10m	0.15µm	26088-2750	**26088-2750**	367.20
20m	0.15µm	26088-2760	**26088-2760**	451.02
40m	0.15µm	26088-2940	**26088-2940**	989.03
20m	0.18µm	26088-5780	**26088-5780**	373.49
I.D.: 0.25mm				
15m	0.25µm	26088-1300	**26088-1300**	238.28
15m	0.5µm	26088-2110	**26088-2110**	340.40
I.D.: 0.32mm				
15m	0.25µm	26088-1310	**26088-1310**	358.36
15m	0.5µm	26088-2120	**26088-2120**	358.36
15m	1µm	26088-2850	**26088-2850**	358.36
I.D.: 0.53mm				
15m	0.5µm	26088-2130	**26088-2130**	382.00
15m	1µm	26088-2860	**26088-2860**	382.00
15m	1.5µm	26088-3340	**26088-3340**	399.02

Thermo Scientific™ TraceGOLD TG-1701MS GC Columns

Feature a mix of cyano and phenyl groups for increased polarity and a different elution order relative to less polar columns

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.1mm	10m	0.1µm	26090-0200	**26090-0200**	358.36
0.25mm	30m	0.25µm	26090-1420	**26090-1420**	553.50
0.25mm	60m	0.25µm	26090-1540	**26090-1540**	927.57
0.32mm	15m	0.25µm	26090-1310	**26090-1310**	358.36
0.32mm	30m	0.25µm	26090-1430	**26090-1430**	579.87
0.32mm	60m	0.25µm	26090-1550	**26090-1550**	1005.11
0.53mm	15m	0.25µm	26090-1320	**26090-1320**	365.90
0.53mm	30m	0.25µm	26090-1440	**26090-1440**	634.46
0.53mm	60m	0.25µm	26090-1560	**26090-1560**	1057.00

Thermo Scientific™ TraceGOLD TG-35MS AMINE GC Columns

Chemically altered tubing surface reduces tailing and eliminates the need for column priming

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	15m	0.5µm	26092-2110	**26092-2110**	422.66
0.25mm	30m	0.5µm	26092-2230	**26092-2230**	671.00
0.32mm	15m	1µm	26092-2850	**26092-2850**	446.29
0.32mm	30m	1µm	26092-2970	**26092-2970**	670.39
0.53mm	15m	1µm	26092-2860	**26092-2860**	464.26
0.53mm	30m	1µm	26092-2980	**26092-2980**	751.70

Thermo Scientific™ TraceGOLD TG-5SilMS GC Columns

Incorporate phenyl groups in the polymer backbone for improved thermal stability, reduced bleed, and reduced susceptibility to oxidation

Length	Film Thickness	Mfr. No.	Cat. No.	Each
I.D.: 0.25mm				
30m	0.25µm	26096-1420	**26096-1420**	660.50
30m	0.5µm	26096-2230	**26096-2230**	632.40
I.D.: 0.32mm				
30m	1µm	26096-2970	**26096-2970**	676.77

Thermo Scientific™ TraceGOLD TG-5MS AMINE GC Columns

Analysis of ppm levels of amines without column priming

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	15m	0.25µm	26097-1300	**26097-1300**	448.50
0.25mm	30m	0.25µm	26097-1420	**26097-1420**	659.43
0.32mm	30m	1µm	26097-2970	**26097-2970**	696.66

Thermo Scientific™ TraceGOLD TG-1MS GC Columns

Exceptionally low bleed for optimal signal-to-noise ratio, sensitivity and mass spec integrity

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.25mm	15m	1µm	26099-2230	**26099-2230**	605.00
0.25mm	30m	0.25µm	26099-1420	**26-099-1420**	623.00
0.25mm	30m	0.5µm	26099-2110	**26099-2110**	355.47
0.53mm	30m	1.5µm	26099-3360	**26099-3360**	719.50
0.53mm	60m	1.5µm	26099-3370	**26099-3370**	1153.00

Restek™ MXT™-1HT SimDist GC Columns

Stable up to 450°C, lowest bleed for longest column lifetime

I.D.	Length	Film Thickness	Mfr. No.	Cat. No.	Each
0.53mm	5m	0.10µm	70112	**06-714-103**	312.00

Gas Chromatography Accessories

Thermo Scientific™ 100% Graphite Ferrules

Composed of a soft material that is porous to oxygen, making them suitable for most applications except GC/MS interface connections

Description	Mfr. No.	Cat. No.	Pack of 10
For 1/4" O.D. Packed Columns	29033405	**03050211**	33.90
For 0.53mm Column I.D., For Thermo Instruments	29053486	**03050219**	122.10
For 0.32mm Column I.D., For Thermo Instruments	29053487	**03050220**	122.00

Thermo Scientific™ 15% Graphite/ 85% Vespel Ferrules

Mechanically robust for a long lifetime and are compatible with GC/MS

Description	Mfr. No.	Cat. No.	Pack of 10
Ferrule, For 0.53mm Column I.D.	290VP144	**03050288**	49.70
Ferrule, Blank (No Hole)	290VT155	**03-050-301**	40.35
Ferrule, For 0.32mm Column I.D.	29033460	**03-050-213**	94.40
Ferrule, For 0.1 to 0.25mm Column I.D.	29033461	**03-050-214**	97.80
Ferrule, For 0.53mm Column I.D.	29033471	**03-050-216**	99.10

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Thermo Scientific™ Injection Port Liners for Thermo Scientific Instruments

Highly deactivated and produced to exacting tolerances to ensure a high degree of reproducibility

Length	For Liner Type	For Use with	Quantity	Mfr. No.	Cat. No.	Each
I.D.: 0.75mm						
105mm	PTV Straight Liner	Trace PTV	5	45352083	**45-352-083**	134.50
I.D.: 1mm						
120mm	PTV Liner with Three Baffles	Trace PTV	25	45354062	**45-354-062**	3830.00
120mm	PTV Siltek Metal Liner	Trace PTV	2	45322046	**45-322-046**	152.90
120mm	PTV Straight Liner	Trace PTV	25	45354054	**45-354-054**	3490.00
I.D.: 2mm						
120mm	PTV Baffle Liner (Siltek)	Trace PTV	5	453T2120	**45-3T2-120**	373.50
120mm	PTV Liner with Sintered Lining	Trace PTV	5	45352060	**45352060**	449.00
120mm	PTV Siltek Metal Liner	Trace PTV	2	45322056	**45-322-056**	144.80
I.D.: 3mm						
105mm	Splitless Straight Liner	Trace and Focus SSL Instruments	5	453T2121	**03-251-691**	312.95
105mm	Splitless Straight Liner	Trace and Focus SSL Instruments	5	45350032	**45-350-032**	184.10
105mm	Splitless Straight Liner	Trace and Focus SSL Instruments	25	45354031	**45-354-031**	508.50
I.D.: 5mm						
105mm	Baffle Liner	Trace and Focus SSL Instruments	5	453T1001	**03-451-802**	224.00
105mm	Split FocusLiner for 50mm Needle	Trace and Focus SSL Instruments	5	453T1905	**453T1905**	191.30
105mm	Split FocusLiner for 50mm Needle	Trace and Focus SSL Instruments	25	453T4905	**45-3T4-905**	812.50

Thermo Scientific™ Septa

A wide range to cover most applications

Type	Material	Inside Dia.	Mfr. No.	Cat. No.	Pack of
BTO	Low Bleed Silicone	9mm	31303240	**31-303-240**	50/127.30
BTO	Low Bleed Silicone	11mm	31303233	**03-052-730**	50/85.60
BTO	Low Bleed Silicone	12.7mm	31303228	**03-050-304**	50/104.50
TR-Green	Low Corning Silicone	9mm	313G3240	**03-251-653**	50/79.80
TR-Green	Low Corning Silicone	11mm	313G3230	**03-251-652**	50/79.90

Thermo Scientific™ GFM Pro Electronic Flowmeter

Measure and monitor flow quickly and efficiently

Description	Mfr. No.	Cat. No.	Each
Electronic Flowmeter Unit	66002-010	**03-052-545**	962.71

SGE™ SilFlow™ GC Replacement Parts

Tightened using finger force to achieve a reliable seal, even for sensitive MS systems

Description	For Use with	Mfr. No.	Cat. No.	Pack of
Ferrules 0.7mm ID	Tubing of OD 0.68mm	123709	**03-350-249**	5/62.93
Ferrules 1.1mm ID	Tubing of OD 1.07mm	123705	**03-350-246**	10/44.73
FingerTite Tool	SilFlow Parts	123717	**03-350-250**	1/47.00
Nuts	SilFlow Ferrules	123704	**03-350-245**	10/91.35
Brass Nut		290BT239	**03-050-223**	2/61.90

Restek™ Intermediate-Polarity Deactivated Fused Silica Guard Columns and Transfer Lines

Most common solvents easily wet and create a uniform film on the tubing surface

Inside Dia. x L	O.D.	Mfr. No.	Cat. No.	Pack of
0.10 x 500mm	0.363±0.012mm	10041	**06-708-140**	1/116.40
0.25 x 500mm	0.37±0.04mm	10043	**06-708-142**	1/62.10
0.32 x 500mm	0.45±0.04mm	10044	**06-708-144**	1/67.90
0.53 x 500mm	0.69±0.05mm	10045	**06-708-146**	1/86.30

Restek™ Capillary FID Jets for Agilent™ 5890/6890/6850 GC

Adaptable FID JetFluted tip to guide the capillary column into the jet

Mfr. No.	Cat. No.	Pack of
Standard		
20670	**06-710-891**	1/65.60
20671	**06-710-892**	3/174.60
High-performance Siltek		
20672	**06-710-893**	1/72.90
20673	**06-710-894**	3/209.50

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Restek™ Capillary Dedicated FID Jet for Agilent™ 6890/6850 GC

Dedicated FID JetFluted tip guides the capillary column into the jet

Mfr. No.	Cat. No.	Pack of
Standard		
21621	**06-711-691**	1/53.20
21682	**06-711-723**	3/151.10
High-performance Siltek		
21620	**06-711-690**	1/59.90
21683	**06-711-724**	3/172.50

Restek™ Capillary Nuts for Agilent™ 5890/6890/7890 GCs

Available in brass or stainless steel

Material	For Use with	Mfr. No.	Cat. No.	Pack of
Brass	Standard 1/16" ferrules	21879	**06-718-727**	2/33.45
Brass	Compact Agilent-style ferrules	21878	**06-711-784**	1/33.45
Stainless steel	Standard 1/16" ferrules	20883	**06-718-135**	2/34.60
Stainless steel	Compact Agilent-style ferrules	21884	**06-718-730**	2/34.60

Restek™ Sky™ 4.0mm ID Straight Inlet Liner with Wool

For Agilent™ GCs equipped with split/splitless inlets

Mfr. No.	Cat. No.	Pack of
23300.1	**06-712-160**	1/24.45
23300.5	**06-712-161**	5/73.80
23300.25	**06-712-162**	25/297.00

Restek™ Sky™ 4.0mm ID Drilled Uniliner Inlet Liners

Direct injection liners for Agilent™ GCs

Description	Quantity	Mfr.No.	Cat. No.	Each
Hole near Bottom; No Wool	1/Pk.	23306.1	**06-712-163**	74.55
Hole near Top; No Wool	1/Pk.	23311.1	**06-712-176**	74.55
Hole near Top; No Wool	5/Pk.	23311.5	**06-712-177**	305.00
Hole near Bottom; No Wool	5/Pk.	23306.5	**06-712-164**	336.00
Hole near Top; No Wool	25/Pk.	23311.25	**06-712-178**	1240.05

Restek™ Sky™ 4.0mm ID Precision Inlet Liner with Wool

Innovative deactivation results in exceptional inertness for a wide range of analyte chemistries

For Use with	Mfr. No.	Cat. No.	Pack of
Agilent™ Split/Splitless GCs	23305.1	**06-712-165**	1/27.83
Agilent Split/Splitless GCs	23305.5	**06-712-166**	5/95.80
Agilent Split/Splitless GCs	23305.25	**06-712-167**	25/417.50
Varian 1177 GCs	23328.1	**06-712-188**	1/27.83
Varian 1177 GCs	23328.5	**06-712-189**	5/96.08

Restek™ Sky™ 4.0mm ID Double Taper/Gooseneck Inlet Liner

For Agilent™ GCs equipped with split/splitless inlets

Mfr. No.	Cat. No.	Pack of
23308.1	**06-712-170**	1/36.35
23308.5	**06-712-171**	5/122.10
23308.25	**06-712-172**	25/504.00

Restek™ Sky™ 4.0mm ID Cyclo Double Taper/Gooseneck Inlet Liner

Splitless liners for Agilent™ GCs

Mfr. No.	Cat. No.	Pack of
23310.1	**06-712-173**	1/87.15
23310.5	**06-712-174**	5/347.50
23310.25	**06-712-175**	25/1297.00

Restek™ Sky™ 4.0mm ID Cyclo Inlet Liner

Mfr. No.	Cat. No.	Pack of
23312.1	**06-712-179**	1/51.98
23312.5	**06-712-180**	5/214.00
23312.25	**06-712-181**	25/754.50

Restek™ Sky™ 5.0mm ID Precision Inlet Liner with wool

For Thermo Scientific™ TRACE™, 8000 Series and Focus™ GCs equipped with SSL inlets

Mfr. No.	Cat. No.	Pack of
23327.5	**06-712-187**	5/157.40
23327.1	**06-712-186**	1/40.43

Restek™ Sky™ 4.0mm ID Single Taper/Gooseneck Inlet Liner

For use with Varian™ 1177 GCs

Mfr. No.	Cat. No.	Pack of
23331.5	**06-712-191**	5/101.50
Liners with Wool		
23332.1	**06-712-192**	1/50.18
23332.5	**06-712-193**	5/134.60

Restek™ Sky™ 3.5mm ID Straight Inlet Liner

For Shimadzu™ 17A, 2010, and 2014 GCs with split/splitless inlets

Mfr. No.	Cat. No.	Pack of
Liners With Wool		
23319.25	**06-712-199**	25/565.03
23319.5	**06-712-198**	5/152.70
23319.1	**06-712-197**	1/81.70

Restek™ Sky™ 5.0mm ID Single Taper/Gooseneck Inlet Liner

For Thermo Scientific™ TRACE™, 8000 Series and Focus™ GCs equipped with SSL inlets

Mfr. No.	Cat. No.	Pack of
23325.5	**06-712-211**	5/164.10
23325.25	**06-712-212**	25/711.00
23325.1	**06-712-210**	1/45.05
Liners with Wool		
23326.5	**06-712-214**	5/198.80
23326.25	**06-712-215**	25/791.04
23326.1	**06-712-213**	1/62.70

Restek™ Sky™ 3.4mm ID Top Taper Inlet Liner

For Varian™ 1078/1079 inlets, split, no frit

Mfr. No.	Cat. No.	Pack of
23329.5	**06-712-217**	5/178.05
23329.25	**06-712-218**	25/771.75
23329.1	**06-712-216**	1/43.90

Restek™ Sky™ 4.0mm ID Frit Inlet Liner with Top Taper

For Varian™ 1177 GCs with split/splitless ports

Mfr. No.	Cat. No.	Pack of
23330.1	**06-712-219**	1/50.17
23330.5	**06-712-220**	5/228.00

Restek™ Sky™ 2.0mm ID Straight Inlet Liner

Innovative deactivation results in exceptional inertness for a wide range of analyte chemistries

For Use with	Length	O.D.	Mfr. No.	Cat. No.	Pack of
Agilent™ GCs with Split/ Splitless Inlets	78.5mm	6.3mm	23313.1	**06-712-291**	1/30.20
Agilent GCs with Split/ Splitless Inlets	78.5mm	6.3mm	23313.25	**06-712-293**	25/304.50
Agilent GCs with Split/ Splitless Inlets	78.5mm	6.3mm	23313.5	**06-712-292**	5/104.30
Liners with Wool					
PerkinElmer GCs	86.2mm	4mm	23317.1	**06-712-299**	1/47.95
PerkinElmer GCs	86.2mm	4mm	23317.5	**06-712-300**	5/194.30

Restek™ Sky™ 4.0mm ID Low Pressure Drop Precision Inlet Liner w/Wool

Split/splitless liners for Agilent™ GCs

Mfr. No.	Cat. No.	Pack of
23309.5	**06-712-298**	5/175.50
23309.1	**06-712-297**	1/45.05

Restek™ Sky™ 3.5mm ID Precision Inlet Liner with Wool

For Shimadzu™ 17A, 2010, and 2014 GCs equipped with split/splitless inlets

Mfr. No.	Cat. No.	Pack of
23320.1	**06-712-301**	1/33.63
23320.5	**06-712-302**	5/114.10

Restek™ Sky™ 2.0mm ID Single Taper/Gooseneck Inlet Liner

For Agilent™ GCs equipped with split/splitless inlets

Length	O.D.	Mfr. No.	Cat. No.	Pack of
78.5mm	6.3mm	23315.1	**06-712-314**	1/38.20
78.5mm	6.3mm	23315.5	**06-712-315**	5/149.30
78.5mm	6.3mm	23315.25	**06-712-316**	25/599.00

Restek™ Ferrules for Capillary Columns

Made of high-purity materials that will not contribute background impurities for sensitive and selective detectors

Ferrule I.D.	Fits Column I.D.	Mfr. No.	Cat. No.	Pack of
100% Graphite				
0.3mm	<0.20mm	20233	**06-717-641**	10/47.95
0.4mm	0.25/0.28mm	20200	**06-717-610**	10/40.95
0.4mm	0.25/0.28mm	20227	**06-717-635**	50/155.10
Vespel/Graphite				
0.4mm	0.25/0.28mm	20211	**06-717-621**	10/47.95
0.4mm	0.25/0.28mm	20229	**06-717-637**	50/177.20

Restek™ Compact Ferrules

For Agilent™ 5890, 6890, and 6850 columns

Ferrule I.D.	Fits Column I.D.	Mfr. No.	Cat. No.	Pack of
100% Graphite				
0.4mm	0.25/0.28mm	20250	**06-717-649**	10/42.70
0.4mm	0.25/0.28mm	20251	**06-717-650**	50/154.80
0.5mm	0.28/0.32mm	21007	**06-718-349**	10/42.70
0.5mm	0.28/0.32mm	21008	**06-718-350**	50/157.00
Vespel/Graphite				
0.4mm	0.25/0.28mm	20238	**06-710-548**	1/63.10
0.4mm	0.25/0.28mm	20239	**06-710-549**	1/247.00
0.5mm	0.28/0.32mm	20248	**06-717-647**	10/63.10
0.5mm	0.28/0.32mm	20249	**06-717-648**	50/247.00

Restek™ Universal Press-Tight™ Connectors

Connect analytical columns, guard columns, transfer lines or detectors

Description	Mfr. No.	Cat. No.	Pack of
Universal Connector	20400	**06-717-750**	5/57.40
Universal Y, Angled	20404	**06-717-753**	3/237.00
Universal Y	20406	**06-717-754**	3/239.00
Universal Y, Deactivated	20406-261	**06-717-755**	3/242.50
Y-connector, Deactivated	20404-261	**06-717-788**	3/244.50

Restek™ Siltek™ Press-Tight™ Connectors

Siltek deactivation for an inert pathway that maintains sample integrity

Description	Mfr. No.	Cat. No.	Pack of
Siltek-Treated Universal Presstight Connector, Pack of 5	20480	**06-717-781**	5/71.70
Siltek-Treated Universal Y Presstight Connector, Pack of 3	20486	**06-717-786**	3/245.00
Siltek-Treated Universal Angled Y Presstight Connector, Pack of 3	20469	**06-717-776**	3/270.00

Restek™ Inlet Seals

Replacement seals for Agilent™ 5890/6890/6850 split/splitless injection ports

Material	Opening	Quantity	Mfr. No.	Cat. No.	Each
Replacement Inlet Seals					
Gold Plated	0.8mm	2/Pk.	21317	**06-718-494**	69.40
Gold Plated	0.8mm	10/Pk.	21318	**06-718-495**	300.50
Gold Plated	1.2mm	10/Pk.	21306	**06-718-488**	306.00
Silcosteel	0.8mm	2/Pk.	21319	**06-718-496**	69.40
Silcosteel	0.8mm	10/Pk.	21320	**06-718-497**	306.00
Stainless Steel	0.8mm	10/Pk.	21316	**06-718-493**	217.37

Restek™ Handheld Electronic Leak Detector

Protects data and analytical columns from costly repairs

Description	Mfr. No.	Cat. No.	Each
Handheld leak detector	22839	**06-722-104**	990.00

Gentec™ PD3400 Series Semi-Automatic Switchover System

Used for adjusting or controlling low flow, compressed gases without interrupting the analyzer or instrument system during cylinder change-out

Delivery Pressure	Cat. No.	Each
0-50 psig	**10-575-154**	1944.22
0-100 psig	**10-575-153**	1963.66
0-150 psig	**10-575-155**	1944.22

Restek™ Sky™ Single Taper Inlet Liner

For Agilent™ GCs equipped with split/splitless inlets

Description	Mfr. No.	Cat. No.	Each
With wool	23303.5	**06-714-101**	104.80

Restek™ BTO™ Septa

Plasma coating eliminates sticking in the injection port

Diameter	Mfr. No.	Cat. No.	Pack of
CenterGuide			
5mm	27082	**06-802-821**	50/76.13
5mm	27083	**06-802-830**	100/137.80
9mm	27084	**06-802-822**	50/78.70
9mm	27085	**06-802-831**	100/137.80
9.5mm	27086	**06-802-823**	50/76.13
9.5mm	27087	**06-802-832**	100/133.35

Grace™ Graphite Ferrules

Straight ferrules with temperature limit 450°C

Fitting Size	Tubing Size	Mfr. No.	Cat. No.	Pack of
0.125"	0.125 in.	5132666	**AT5132666**	10/46.36
0.188"	0.188 in.	8610319	**AT8610319**	10/46.36
0.25"	0.25 in.	3112856	**AT3112856**	10/46.36
0.375"	0.375 in.	8610321	**AT8610321**	10/47.45
0.5"	0.5 in.	8610322	**AT8610322**	10/53.80

SGE™ ConnecTite™ Liners for Agilent™ GC

Designed for Agilent 7890, 6890, 6850, HP4890, 5890

Description	Mfr. No.	Cat. No.	Pack of
Standard	092324	**SG092324**	5/220.00
Top Hole	092325	**SG092325**	5/267.15
Bottom Hole	092326	**SG092326**	5/264.00

SGE™ ConnecTite™ Liners for Thermo Scientific™ GC

Designed for use with Thermo Scientific TRACE™ and FOCUS™ GCs

Description	Mfr. No.	Cat. No.	Pack of
Standard	09233401	**SG09233401**	1/60.00
Standard	092334	**SG092334**	5/240.00
Top Hole	09233501	**SG09233501**	1/75.00
Top Hole	092335	**SG092335**	5/303.58
Bottom	09233601	**SG09233601**	1/75.00
Bottom	092336	**SG092336**	5/300.00

Grace™ Graphite Ferrules

Straight ferrules with temperature limit 450°C

Fitting Size	Tubing Size	Mfr. No.	Cat. No.	Pack of 10
0.125"	0.125"	5132666	**AT5132666**	46.36
0.188"	0.188"	8610319	**AT8610319**	46.36
0.25"	0.25"	3112856	**AT3112856**	46.36
0.375"	0.375"	8610321	**AT8610321**	47.45
0.5"	0.5"	8610322	**AT8610322**	53.80

SGE™ ConnecTite™ Liners for Agilent™ GC

Designed for Agilent 7890, 6890, 6850, HP4890, 5890

Description	Mfr. No.	Cat. No.	Pack of 5
Standard	092324	**SG092324**	220.00
Top Hole	092325	**SG092325**	267.15
Bottom Hole	092326	**SG092326**	264.00

SGE™ ConnecTite™ Liners for Thermo Scientific™ GC

Designed for use with Thermo Scientific TRACE™ and FOCUS™ GCs

Description	Mfr. No.	Cat. No.	Pack of
Standard	09233401	**SG09233401**	1/60.00
Standard	092334	**SG092334**	5/240.00
Top Hole	09233501	**SG09233501**	1/75.00
Top Hole	092335	**SG092335**	5/303.58
Bottom	09233601	**SG09233601**	1/75.00
Bottom	092336	**SG092336**	5/300.00

Solid Phase Extraction

Thermo Scientific™ QuEChERS Mylar Pouches

A flexible and convenient experimental approach for determiation of pesticide residues in fruit, vegetables and other foods

Description	Mfr. No.	Cat. No.	Pack of
4000mg MgSO4, 1000mg NaCl - (no tubes)	60105-340	**03-052-739**	1/120.44
6000mg MgSO4, 1500mg CH3CHOONa (anhydrous) - (no tubes)	60105-341	**03-052-740**	1/120.44
6000mg MgSO4, 1500mg NaCl - (no tubes)	60105-342	**03-052-737**	50/125.20

Thermo Scientific™ HyperSep™ SLE (Solid supported Liquid/Liquid Extraction)

For removal of phospholipids from biological matricies

Bed Weight	Volume	pH	Mfr. No.	Cat. No.	Price
SLE Columns					
200mg	3mL	pH7	60109-200-3-7	**60-109-20037**	Pk. of 50/111.00
500mg	3mL	pH7	60109-500-3-7	**60-109-50037**	Pk. of 50/91.65
500mg	6mL	pH7	60109-500-6-7	**60-109-50067**	Pk. of 30/96.92
SLE 96-well plates					
200mg	2mL	pH7	60109-200-2-7W	**60-109-20027W**	Ea./127.20
400mg	2mL	pH7	60109-300-2-7W	**60-109-30027W**	Ea./122.33
SLE Columns					
200mg	3mL	pH9	60109-200-3-9	**60-109-20039**	Pk. of 50/107.27
500mg	3mL	pH9	60109-500-3-9	**60-109-50039**	Pk. of 50/91.65
500mg	6mL	pH9	60109-500-6-9	**60-109-50069**	Pk. of 30/96.92
SLE 96-well plates					
200mg	2mL	pH9	60109-200-2-9W	**60-109-20029W**	Ea./122.33
300mg	2mL	pH9	60109-300-2-9W	**60-109-30029W**	Ea./122.33

Thermo Scientific™ Dionex™ OnGuard™ Sample Prep Station

Enables simultaneous pretreatment of multiple samples with OnGuard sample pretreatment cartridges

Cat. No.	Each
DX039599	822.20

Thermo Scientific™ Dionex™ OnGuard™ II Cartridges

Have wide pH stability and allow low level ion analysis

Material	Capacity	Cat. No.	Each
A	1mL	**DX057091**	209.50
A	2.5mL	**DX057092**	458.50
Ag	1mL	**DX057089**	232.00
Ag/H	2.5mL	**DX057410**	518.50
Ag	2.5mL	**DX057090**	518.50
Ba	1mL	**DX057093**	213.24
Ba	2.5mL	**DX057094**	485.50
Ba/Ag/H	2.5mL	**DX063955**	524.50

Thermo Scientific™ Dionex™ AutoTrace™ 280 Conical Tubes

For AutoTrace 280 SPE system

Cat. No.	Each
DX071056	380.79

Thermo Scientific™ Dionex™ AutoTrace™ 280 Elution Racks

For use with	Mfr. No.	Cat. No.	Each
11mm GC vials	071068	**DX071068**	486.68
15mL Conical tubes	071069	**DX071069**	405.56
16 x 100mm Test tubes	071070	**DX071070**	614.51
17 x 60mm Vials	071071	**DX071071**	343.15
4mL Screw cap vials	071072	**DX071072**	611.05

Thermo Scientific™ Dionex™ AS-AP Autosampler Vial Kits

Glass or polypropylene, with caps and septa

Description	Vial Capacity	Mfr. No.	Cat. No.	Pack of 100
With caps and blue septa	10mL	074228	**DX074228**	136.98
With caps and septa	10mL	055058	**DX055058**	110.40

Thermo Scientific™ Dionex™ SolEx™ HRP cartridge

For fast, easy preconcentration of contaminants from water samples prior to HPLC analysis

Description	Mfr. No.	Cat. No.	Pack of 2
SolEx HRP cartridge; 2.1 x 20mm	074400	**DX074400**	278.50

Thermo Scientific™ Dionex™ SolEx™ Regular C8 and C18 Silica Based Solid-Phase Extraction Cartridges

Used for concentration of pesticides, herbicides, hydrocarbons, and other organic contaminants from water as approved by the US EPA

Material	Capacity	Bed Weight	Mfr. No.	Cat. No.	Pack of
Endcapped					
C8	1mL	0.1g	074415	**DX074415**	100/159.14
C8	3mL	0.5g	074413	**DX074413**	30/126.20
C18	1mL	0.1g	074623	**DX074623**	100/179.10
C18	3mL	0.5g	074412	**DX074412**	30/138.00
Unendcapped					
C18	6mL	1g	074416	**DX074416**	30/108.60

Thermo Scientific™ Dionex™ SolEx™ Activated Carbon Based Extraction Cartridge

Bed Weight	Mfr. No.	Cat. No.	Pack of 20
2g	074590	**DX074590**	214.00

Thermo Scientific™ Dionex™ SolEx™ C18 Solid-Phase Extraction Cartridge for EPA Method 525.2

Designed specifically for extraction of semivolatiles from drinking water

Bed Weight	Mfr. No.	Cat. No.	Pack of 30
1.5g	075896	**DX075896**	166.30

Thermo Scientific™ HyperSep™ Verify-AX SPE Columns

Features nonpolar and cationic characteristics for improved analysis of acidic drugs and metabolites

Bed Weight	Column Volume	Mfr. No.	Cat. No.	Pack of
130mg	1mL	60108-727	**03251309**	100/131.17
130mg	10mL	60108-767	**03-251-693**	1/154.32
300mg	3mL	60108-728	**03251167**	50/157.79
500mg	3mL	60108-729	**03251310**	50/164.02

Thermo Scientific™ HyperSep™ Aminopropyl SPE Columns

A polar sorbent for both polar and anion exchange interactions

Bed Weight	Column Volume	Mfr. No.	Cat. No.	Pack of
50mg	1mL	60108-424	**03251276**	100/210.13
100mg	1mL	60108-364	**03251168**	100/235.50
200mg	3mL	60108-425	**03251277**	50/169.90
500mg	3mL	60108-518	**03251169**	50/195.74

Thermo Scientific™ SOLA

First time/every time success in the analytical process

Description	Bed Weight	Column Volume	Mfr. No.	Cat. No.	Price
SOLA SPE Cartridges					
SOLA HRP	10mg	1mL	60109-001	**03-150-391**	Pk. of 100/228.00
SOLA SCX	10mg	1mL	60109-002	**03-150-392**	Pk. of 100/221.10
SOLA SPE 96 Well Plates					
SOLA HRP	10mg	2mL	60309-001	**03-150-394**	Ea./352.50
SOLA SCX	10mg	2mL	60309-002	**03-150-395**	Ea./341.70

Thermo Scientific™ QuEChERS Clean-up Products

QuEChERS Clean-up ProductsConvenient and effective approach for determining pesticide residues in fruit, vegetables and other foods

Column Volume	Description	Mfr No.	Cat. No.	Pk. of
15mL	150mg $MgSO_4$,300mg PSA, 150mg Chlorofiltr	60105-231	**03-052-530**	50/454.41

Thermo Scientific™ QuEChERS Products

Convenient and effective approach for determining pesticide residues in fruit, vegetables and other foods

Description	Capacity	Qty.	Mfr. No.	Cat. No.	Pack of
4g anhydrous magnesium sulfate, 1g sodium chloride	50mL	25	60105-311	**03-150-314**	25/51.62
6g anhydrous $MgSO_4$, 1.5g NaCl, 1.5g sodium citrate tribasic dihydrate, 750mg sodium citrate dibasic	50mL	25	60105-312	**60-105-312**	25/85.16

Thermo Scientific™ HyperSep™ Hypercarb™ SPE Plates and Individual Wells

For solid phase extraction applications and separations where C18 and polymeric materials are not suitable

Bed Weight	Well Volume	Quantity	Mfr. No.	Cat. No.	Each
10mg	1mL	1 Plate	60302-606	**03-250-409**	396.78
25mg	1mL	1 Plate	60302-607	**03-250-410**	460.00
25mg	1mL	100 Wells	60302-602	**03-250-407**	424.00

Thermo Scientific™ HyperSep™ Microscale SPE Tips

Feature a solid phase attached directly to the tip without polymers or glues

Packing	Capacity	Mfr. No.	Cat. No.	Pack of 96
BioBasic C18	1-10µL	60109-201	**03-250-450**	241.00
BioBasic C4	1-10µL	60109-203	**03-250-414**	223.50
HILIC	1-10µL	60109-206	**03-250-417**	241.00
BioBasic C18	10-200µL	60109-209	**03-250-420**	277.50

Thermo Scientific™ HyperSep™ SPE Columns

Feature a highly retentive alkyl-bonded phase for nonpolar to moderately polar compounds

Bed Weight	Column Volume	Mfr. No.	Cat. No.	Pack of
50mg	1mL	60108-390	**03-251-157**	100/195.70
500mg	3mL	60108-304	**03-251-158**	50/143.10
500mg	6mL	60108-305	**03-251-156**	30/133.70
500mg	10mL	60108-786	**60-108-786**	1/174.30

Thermo Scientific™ HyperSep™ C8 SPE Columns

Less retentive alternative to C18 for polar and nonpolar compounds

Bed Weight	Column Volume	Mfr. No.	Cat. No.	Pack of
50mg	1mL	60108-391	**03-251-159**	100/195.90
500mg	3mL	60108-309	**03-251-160**	50/142.60
500mg	6mL	60108-394	**03-251-161**	100/133.30
100mg	1mL	60108-392	**03-251-265**	100/188.40

Thermo Scientific™ HyperSep™ Silica SPE Columns

A polar sorbent primarily used to retain analytes in nonpolar matrices

Bed Weight	Column Volume	Mfr. No.	Cat. No.	Pack of
50mg	1mL	60108-409	**03-251-163**	100/183.90
500mg	3mL	60108-315	**03-251-164**	50/116.60
500mg	6mL	60108-411	**03-251-165**	30/120.60
100mg	1mL	60108-317	**03-251-260**	100/203.00
200mg	3mL	60108-410	**03-251-270**	50/121.80

3M™ Empore™ 96-Well Extraction Disk Plates

High-performance extraction disk plates for high-throughput SPE

Type	Mfr. No.	Cat. No.	Each	Case of 12
1.2mL Well Volume				
C8-SD	6014SD	**14-378-56**	391.35	4233.92
C18-SD	6015SD	**14-378-57**	395.50	4300.00
MPC-SD	6030SD	**14-378-58**	387.67	4233.92
Filter Plate	6060	**14-378-59**	137.40	1176.00

3M™ Empore™ Filter Aid 400

Nonporous, inert glass beads with average diameter of 40µm designed for use with Empore Extraction Disks

Size	Mfr. No.	Cat. No.	Each
1.5kg	FA400	**14-378-6**	135.50

3M™ Empore™ C8 and C18 Extraction Disks

Reduce extraction time and solvent use for analytical preparation of aqueous environmental samples

Diameter	Mfr. No.	Cat. No.	Pack of	Case of 3 Pk.
C8 Sorbent				
47mm	2214	**14-386**	20/343.50	876.00
90mm	2314	**14-378-061**	30/1189.00	1189.00
C18 Sorbent				
47mm	2215	**14-386-2**	20/305.20	809.49
90mm	2315	**14-386-3**	10/454.91	1229.20

3M™ Empore™ SDB-XC Extraction Disks

Reduce extraction time and solvent use for analytical preparation of aqueous environmental samples

Diameter	Mfr. No.	Cat. No.	Pack of	Case of 3 Pk.
47mm	2240	**14-386-4**	20/387.15	1055.85
90mm	2340	**14-386-5**	30/2338.10	----

3M™ Empore™ Anion and Cation Exchange-SR Extraction Disks

Provide significantly faster extraction time with no negative effect on recoveries

Diameter	Mfr. No.	Cat. No.	Pack of	Case of 3 Pk.
Anion Exchnage-SR				
47mm	2252	**14-386-6**	20/374.50	1015.00
Cation Exchange-SR				
47mm	2351	**14-378-104**	3/1021.00	----

3M™ Empore™ SDB-RPS Extraction Disks

Reduce extraction time and solvent use for analytical preparation of aqueous environmental samples

Diameter	Mfr. No.	Cat. No.	Pack of	Case of 3 Pk.
47mm	2241	**14-386-8**	20/388.00	1053.00
90mm	2341	**14-386-9**	10/396.87	1190.61

3M™ Empore™ Oil and Grease Extraction Disks

Reduce extraction times to an average of eight minutes/liter for most sample matrices

Diameter	Mfr. No.	Cat. No.	Pack of	Case of 3 Pk.
47mm	2270	**14-638-30A**	20/178.21	453.09
90mm	2370	**14-638-30B**	10/185.40	492.00

Avantor™ Glass Florisil SPE Columns

For adsorption chromatography with media Mg_2SiO_3

Mfr. No.	Cat. No.	Each
742007	**14-650-451**	700.13

Grace™ Extract-Clean™ Florisil™ SPE Columns

Typically used in processes employing a vacuum manifold, but also suitable for methods using syringes to pull or push sample

Tube Size	Bed Weight	Endcapped	Cat. No.	Pack of
1.5mL	100mg	No	**AT204500**	100/255.50
4.0mL	200mg	No	**AT207750**	50/167.50
	500mg	No	**AT204650**	50/219.50
8.0mL	1000mg	No	**AT207930**	30/144.60
15mL	2000mg	No	**AT207962**	1/184.50

Grace™ Extract-Clean™ Silica SPE Columns

Typically used in processes employing a vacuum manifold, but also suitable for methods using syringes to pull or push sample

Tube Size	Bed Weight	Endcapped	Cat. No.	Pack of
1.5mL	100mg	No	**AT209000**	100/249.50
4.0mL	200mg	No	**AT209150**	50/166.60
	500mg	No	**AT209250**	50/218.00

Grace™ Maxi-Clean™ Solid-Phase Extraction Cartridges, C18

Same bed dimensions as 4mL SPE columns for method crossover

Bed Weight	Quantity	Mfr. No.	Cat. No.	Each
C18 SPE Cartridge				
300mg	50/Pk.	20926	**AT20926**	232.50
300mg	100/Pk.	20928	**AT20928**	447.00
600mg	50/Pk.	20934	**AT20934**	340.00
600mg	100/Pk.	20936	**AT20936**	423.00
Large Pore C18 SPE Cartridge				
300mg	100/Pk.	22012	**AT22012**	336.33
900mg	100/Pk.	220215	**AT220215**	510.74

Grace™ Maxi-Clean™ Solid-Phase Extraction Cartridges

Normal phase cartridges with the same dimensions as 4mL SPE columns for method crossover

Packing	Bed Weight	Mfr. No.	Cat. No.	Pack of
Alumina-N	1800mg	210098	**AT210098**	25/159.00
Alumina-N	300mg	210095	**AT210095**	25/134.00
C18	300mg	20945	**AT20945**	1/182.00
Florisil	900mg	210061	**AT210061**	100/544.00
Florisil-PR	900mg	210075	**AT210075**	100/522.50
Silica	300mg	20974	**AT20974**	50/236.50

Grace™ Maxi-Clean™ Reversed-Phase C8 Cartridges

Same bed dimensions as 4mL SPE columns for method crossover

Bed Weight	Quantity	Mfr. No.	Cat. No.	Each
300mg	50/Pk.	20950	**AT20950**	234.50
600mg	50/Pk.	20958	**AT20958**	337.50
300mg	100/Pk.	20952	**AT20952**	445.00
900mg	100/Pk.	20968	**AT20968**	522.00

Grace™ Extract-Clean™ SAX SPE Columns

For a clean, concentrated sample

Bed Weight	Column Size	Mfr. No.	Cat. No.	Pack of 50
200mg	4.0mL	209625	**AT209625**	295.00
500mg	4.0mL	209750	**AT209750**	285.00

Grace™ Extract-Clean™ SCX SPE Columns

Typically used in processes employing a vacuum manifold, but also suitable for methods using syringes to pull or push sample

Tube Size	Bed Weight	Endcapped	Cat. No.	Pack of
1.5mL	100mg	No	**AT209800**	100/284.50
4.0mL	200mg	No	**AT209825**	50/225.00
	500mg	No	**AT209950**	50/275.00

Grace™ Extract-Clean™ NH_2 SPE Columns

Typically used in processes employing a vacuum manifold, but also suitable for methods using syringes to pull or push sample

Tube Size	Bed Weight	Endcapped	Cat. No.	Pack of
1.5mL	100mg	No	**AT211000**	100/311.26
4.0mL	200mg	No	**AT211025**	50/203.00
	500mg	No	**AT211150**	50/221.50
8.0mL	1000mg	No	**AT211153**	30/220.00

Grace™ SAX Maxi-Clean™ Cartridges

Eliminate matrix interferences before ion analysis

Packing	Bed Weight	Particle Size	Mfr. No.	Cat. No.	Pack of 50
SAX	600mg	50µm	21907	**AT21907**	345.00

Grace™ SAX Maxi-Clean™ Cartridges

Strong anion exchanger in acetate form

Bed Weight	Mfr. No.	Cat. No.	Pack of
600mg	21907	**AT21907**	50/345.00
600mg	21908	**AT21908**	100/697.50

Grace™ Extract-Clean™ Alumina SPE Columns

Typically used in processes employing a vacuum manifold, but also suitable for methods using syringes to pull or push sample

Tube Size	Bed Weight	Endcapped	Cat. No.	Pack of 50
4.0mL	500mg (Basic)	No	**AT228150**	243.50

Grace™ Extract-Clean™ and Maxi-Clean™ IC Resin SPE Devices

Seven chemistries available in two formats

Resin	Volume per Bed	Quantity	Mfr. No.	Cat. No.	Each
IC-Ag	0.5mL	50/Pk.	30266	**AT-302-66**	436.87
IC-Ag	1.5mL	25/Pk.	30258	**AT-302-58**	444.00
IC-Ba	0.5mL	50/Pk.	30268	**AT-302-68**	340.28
IC-Chelate	0.5mL	50/Pk.	30250	**AT-302-50**	341.50
IC-Chelate	1.5mL	25/Pk.	30265	**AT-302-65**	440.50
IC-H	0.5mL	Each	40264	**AT-402-64**	238.69
IC-H	0.5mL	50/Pk.	30264	**AT-302-64**	336.00

Grace™ Prevail™ C18 Solid-Phase Extraction Columns

Water-wettable cartridges don't require preconditioning with an organic solvent, saving time and reducing handling and disposal of organic solvents

Bed Weight	Column Size	Cat. No.	Pack of
Extract-Clean Columns			
100mg	1.5mL	**AT605001**	100/300.50
1000mg	8.0mL	**AT605430**	30/394.00
Maxi-Clean Cartridges			
300mg	—	**AT605926**	50/328.50
500mg	—	**AT605929**	50/408.00
900mg	—	**AT605942**	50/346.50

Thermo Scientific™ Dionex™ AutoTrace™ 280 Solvent Bottle, Glass Coated

Solvent bottle with 2L capacity

Cat. No.	Each
DX045901	156.70

Millipore™ MultiScreen™ HTS Vacuum Manifold

For vacuum filtration using 96- and 384-well MultiScreen HTS, MultiScreen Solvinert and Solvinert Deep Well filter plates

Description	Cat. No.	Each
MultiScreen HTS Vacuum Manifold	**MSV MHT S00**	1807.00

Flash

Grace™ Reveleris™ Silica Flash Cartridges

Ideal for speed, resolution and capacity

Bed Weight	Mfr. No.	Cat. No.	Pack of
Reveleris SRC Silica Flash Cartridges			
4g	5146130	**AT5146130**	20/231.50
12g	5146131	**AT5146131**	20/273.00
40g	5146132	**AT5146132**	15/382.00
Reveleris SRC C18 Cartridges			
4g	5152990	**AT5152990**	1/76.10
12g	5152103	**AT5152103**	1/146.00
40g	5152104	**AT5152104**	1/226.50
Reveleris SRC Amino Cartridges			
4g	5157330	**AT5157330**	1/105.00
12g	5157331	**AT5157331**	1/148.00
40g	5157332	**AT5157332**	1/260.12
Reveleris SRT Amino Cartridges			
4g	5159570	**AT5159570**	10/793.53
12g	5159571	**AT5159571**	10/1201.26
40g	5159572	**AT5159572**	10/1701.51
Reveleris SRC Diol Cartridges			
4g	5157335	**AT5157335**	1/99.81
12g	5157336	**AT5157336**	1/158.14
40g	5157337	**AT5157337**	1/258.12

Thin Layer

Whatman™ 1 Chr Chromatography Paper

Pure cellulose produced from cotton linters with no additives

Description	Mfr. No.	Cat. No.	Each
Roll (1.5cm × 100m)	3001-651	**05-716-2B**	62.28
Roll (2 × 100m)	3001-614	**05-716-2A**	35.22
Roll (4cm × 100m)	3001-652	**05-716-2H**	63.68
Sheets (20 × 20cm)	3001-861	**05-716-2S**	65.10
Sheets (25 × 25cm)	3001-878	**09-927-854**	84.40
Sheets (58 × 46cm)	3001-917	**05-714**	263.73

Fisherbrand® Pure Cellulose Chromatography Paper

Pure cellulose papers with smooth surfaces are tested to assure uniformity and reproducibility, and offer optimum separation and sample resolution

- Thin paper (05-714-1) is recommended for analytical separations
- Thick paper (05-714-4) is recommended for electrophoresis and general chromatography
- Both grades are carefully tested for spot formation, capillary action, water flowrate[1], and adsorption speed

Thickness	Cat. No.	Pack of 100
0.19mm (thin)	**05-714-1**	161.57
0.35mm (thick)	**05-714-4**	312.12

Whatman™ 31ET Chr Chromatography Paper

Pure cellulose produced from cotton linters with no additives

Size	Mfr. No.	Cat. No.	Pack of 25
46 × 57cm	3031-915	**05-714-6**	427.52

Whatman™ 3MM Chr Chromatography Paper

Relatively thick (0.34mm) grade 3MM chromatography paper manufactured entirely from high-quality cotton linters that have an alpha cellulose content of at least 98%

Size	Mfr. No.	Cat. No.	Each
Sheets in Packs of 100			
10.2 × 13.3cm	3030-6189	**05-716-6H**	23.65
11 × 14cm	3030-6185	**05-716-6D**	27.36
12 × 14cm	3030-6132	**05-716-6C**	29.83
15 × 17.5cm	3030-153	**05-716-3D**	44.76
15 × 20cm	3030-6188	**05-716-6G**	53.47
15.2 × 20.3cm	3030-6187	**05-716-6F**	54.72
Rolls			
2cm × 100m	3030-614	**05-716-3A**	53.47
7.5cm × 100m	3030-662	**05-716-3M**	179.55
10cm × 100m	3030-672	**05-716-3N**	226.26
12.5cm × 100m	3030-675	**05-716-3P**	265.93

Whatman™ 3 Chr Chromatography Paper

Pure cellulose produced from cotton linters with no additives

Size	Mfr. No.	Cat. No.	Pack of 100
46 × 57cm	3003-917	**05-716-4B**	602.82

Whatman™ 17 Chr Chromatography Paper

Pure cellulose produced from cotton linters with no additives

Size	Mfr. No.	Cat. No.	Pack of 25
46 × 57cm	3017-915	**05-716-4F**	414.28
7 × 9cm	3017-820	05-717-1	99.92

Whatman™ 4 Chr Chromatography Paper

Ideal for routine and/or repetitive chromatography with relatively low solute loadings

Type	Dimensions	Mfr. No.	Cat. No.	Each
Roll	0.78" × 328'2cm × 100m	3004-614	**05-716-5A**	41.64
Sheet	18.11 × 22.2"46cm × 57cm	3004-917	**05715**	370.70

Whatman™ Grade DE81 Ion Exchange Cellulose Chromatography Paper

Manufactured from pure cellulose and ion-exchange cellulose fibers to permit highly efficient, rapid separations of charged organic or inorganic substances

Size	Mfr. No.	Cat. No.	Pack of
Sheet			
46 × 57cm	3658-915	**05-717-1A**	25/734.31
Circle			
2.3cm dia.	3658-323	**05-717-1B**	100/28.26
2.4cm dia.	3658-324	**05-717-1C**	100/28.26
2.5cm dia.	3658-325	**05-717-1D**	100/28.26

Whatman™ Grade P81 Ion Exchange Cellulose Chromatography Paper

Manufactured from pure cellulose and ion-exchange cellulose fibers to permit highly efficient, rapid separations of charged organic or inorganic substances

Size	Mfr. No.	Cat. No.	Pack of
Sheet			
46 × 57cm	3698-915	**05-717-2A**	25/504.27
Circle			
2.5cm dia.	3698-325	**05-717-2B**	100/16.51

EMD Millipore™ Chemicals TLC Plastic Sheets

Average particle size is 15µm with a 5-20µm distribution

Description	Fluorescent Indicator	Layer Thickness	Cat. No.	Pack of 25
Silica Gel				
Silica Gel 60	No	200µm	**M5748-7**	179.37
Silica Gel 60 F_{254}	Yes	200µm	**M5735-7**	233.50
Cellulose				
Plastic sheets, cellulose	No	100µm	**M5577-7**	229.00
Plastic sheets, cellulose F_{254}	Yes	100µm	**M5565-7**	237.01
PEI-Cellulose F_{254}	Yes	100µm	**M5579-7**	347.11

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Prices subject to change.

EMD Millipore™ Chemicals Precoated TLC Glass Plates

Average particle size is 15µm with a 5-20µm distribution

Description	Plate Size	Fluorescent Indicator	Layer Thickness	Cat. No.	Pack of
Silica Gel					
Silica Gel 60	10 × 20cm	No	250µm	**M5626-6**	50/208.96
	20 × 20cm	No	250µm	**M5721-7**	25/290.50
Silica Gel 60 F_{254}	2.5 × 7.5cm	Yes	250µm	**M15341-5**	500/1251.00
	5 × 20cm	Yes	250µm	**M5714-3**	100/554.50
	10 × 20cm	Yes	250µm	**M5729-6**	50/417.50
	20 × 20cm	Yes	250µm	**M5715-7**	25/281.50
	5 × 10cm	Yes	250µm	**M5719-2**	200/558.00
Silica Gel 60 F_{254}	2.5 × 7.5cm	Yes	250µm	**M15327-1**	100/360.00
Without box	2.5 × 7.5cm	Yes	250µm	**M15341-1**	100/304.97
Silica Gel Prescored					
Silica Gel 60 No Indicator	10 × 10cm	No	200µm	**M5644-5**	25/321.50
Silica Gel 60 F_{254}	20 × 20cm	Yes	250µm	**M5608-7**	20/248.11
Multiformat Silica Gel 60 F_{254}	20 × 20cm	Yes	250µm	**M105620-7**	1/247.00
Silica Gel with Preconcentration Zone					
Silica Gel 60 F_{254}	20 × 20cm	Yes	250µm	**M11798-7**	25/298.50
Reversed-Phase (RP) Silica Gel					
Silica Gel RP-2	20 × 20cm	Yes	250µm	**M5747-7**	25/580.50
Silica Gel RP-8 (reversed phase)	20 × 20cm	Yes	250µm	**M15388-7**	25/576.96
Silica Gel RP-8 F_{254s}	5 × 10cm	Yes	250µm	**M15684-1**	1/283.62
Silica Gel RP-18 (reversed phase)	10 × 20cm	Yes	250µm	**M15423-6**	50/623.08
	20 × 20cm	Yes	250µm	**M15389-7**	25/589.00
Silica Gel RP-18 F_{254s}	5 × 10cm	Yes	250µm	**M15685-1**	25/244.34
	5 × 20cm	Yes	250µm	**M15683-3**	50/464.00
Aluminum Oxide (Alumina) Basic					
Aluminum Oxide 60 F_{254}	20 × 20cm	Yes	250µm	**M5713-7**	25/254.09
Cellulose					
Cellulose	20 × 20cm	No	100µm	**M5716-7**	25/302.98
Cellulose $F_{254+366}$	20 × 20cm	Yes	100µm	**M5718-7**	25/356.50
PEI-Cellulose-$F^{254+366}$	20 × 20cm	Yes	100µm	**M5725-7**	25/378.53

Grace™ Reveleris™ Method Development TLC Plates

Optimize the mobile phase

Description	Dimensions	Mfr. No.	Cat. No.	Pack of 25
Reversed-Phase C18 TLC Plate	10 × 20cm	8625320	**AT8625320**	475.00
Silica TLC Plates	20 × 20cm	8621250	**AT8621250**	227.00
Silica Aluminum-backed TLC Plates, UV254	20 × 20cm	8628490	**AT8628490**	270.50
Silica Aluminum-backed TLC Plates, No UV	20 × 20cm	8628492	**AT8628492**	266.63

Low Pressure

Kimble-Chase Kontes™ FlexColumn™ Economy Columns

Ideal for use with FPLC™ systems, peristaltic pumps or gravity flow to 15psi

		Single Column		Multicolumn Pack	
Length	Volume	Cat. No.	Each	Cat. No.	Pack of
5cm	25mL	**K4204002505**	142.50	**K4204002505**	5/142.50
10cm	49mL	**K420401-2510**	47.60	**K420400-2510**	5/175.00
15cm	74mL	**K4204002515**	165.10	**K4204002515**	5/165.10
20cm	98mL	**K420401-2520**	53.70	**K420400-2520**	5/186.70
30cm	147mL	**K4204002530**	176.00	**K4204002530**	5/176.00

Gel Filtration

GE™ Healthcare Sephadex™ G50 Superfine Media

Suitable for gel filtration

Quantity	Mfr. No.	Cat. No.	Each
100g	17-0041-01	**45-000-015**	366.45

GE™ Healthcare Sephadex™ G50 Fine Media

Suitable for gel filtration

Quantity	Mfr. No.	Cat. No.	Each
100g	17-0042-01	**45-000-016**	276.15
500g	17-0042-02	**45-000-017**	1186.50

GE™ Healthcare Sephadex™ G50 Medium Media

Suitable for gel filtration

Quantity	Mfr. No.	Cat. No.	Each
100g	17-0043-01	**45-000-018**	303.45
500g	17-0043-02	**45-000-019**	1327.20

GE™ Healthcare Sephadex™ G75 Media

Suitable for gel filtration

Quantity	Mfr. No.	Cat. No.	Each
100g	17-0050-01	**45-000-022**	333.90
500g	17-0050-02	**45-000-023**	1453.07

GE™ Healthcare Sephadex™ G75 Superfine Media

Classic gel filtration medium

Quantity	Mfr. No.	Cat. No.	Each
100g	17-0051-01	**45-000-024**	456.75

GE™ Healthcare Sepharose™ Agarose Gel Filtration Media

Broad fractionation ranges allow characterization or cleaning up of samples containing components of diverse molecular weight

Description	Mfr. No.	Cat. No.	Each
2B (2% agarose)	17-0130-01	**45-000-030**	791.70
4B (4% agarose)	17-0120-01	**45-000-029**	735.00
6B (6% agarose)	17-0110-01	**45-000-028**	725.55
CL-2B (2% agarose)	17-0140-01	**45-000-031**	1209.60
CL-4B (4% agarose)	17-0150-01	**45-000-032**	787.50
CL-6B (6% agarose)	17-0160-01	**45-000-033**	799.05

GE™ Healthcare Blue Dextran 2000 Protein Standard

Determine the void fraction in high-resolution gel filtration columns

Quantity	Mfr. No.	Cat. No.	Each
10g	17-0360-01	**45-000-048**	273.92

GE™ Healthcare Superose™ Media Prep Grade Lab Packs

High performance gel filtration media for scaleup to preparative purifications of biomolecules

Description	Mfr. No.	Cat. No.	Each
Superose 6 Prep Grade	17-0489-01	**45-000-086**	583.80
Superose 12 Prep Grade	17-0536-01	**45-000-093**	595.35

GE™ Healthcare DEAE-Sephacel™ Media

Weak anion exchanger based on beaded cellulose

Quantity	Mfr. No.	Cat. No.	Each
500mL	17-0500-01	**45-000-088**	319.20

GE™ Healthcare MonoBeads™ Columns

Innnovative, monodisperse 10µm porous beads yield high resolution, dynamic capacity, reproducibility and durability

Product Type	Description	Bed Volume	Mfr. No.	Cat. No.	Each
Mono Q PC 1.6/5	Strong anion exchanger	0.1mL	17-0671-01	**45-000-123**	1903.65
Mono S PC 1.6/5	Strong cation exchanger	0.1mL	17-0672-01	**45-000-124**	1959.30
Mono Q 5/50 GL	Strong anion exchanger	1mL	17-5166-01	**45-000-301**	1663.20
Mono Q 10/100 GL	Strong anion exchanger	8mL	17-5167-01	**45-000-302**	6358.80
Mono S 5/50 GL	Strong cation exchanger	1mL	17-5168-01	**45-000-303**	1663.20
Mono S 10/100 GL	Strong cation exchanger	8mL	17-5169-01	**45-000-304**	6358.80
Mono P 5/200 GL	Weak anion exchanger	4mL	17-5171-01	**45-000-306**	2276.40
Mono Q 4.6/100 PE	Strong anion	1.7mL	17-5179-01	**45-000-309**	1961.40
Mono S 4.6/100 PE	Strong cation	1.7mL	17-5180-01	**45-000-310**	1961.40

GE™ Healthcare Superose™ PC Chromatography Columns

Medium-pressure systems achieve high-resolution separations across exceptionally broad molecular weight ranges

Description	Mfr. No.	Cat. No.	Each
Superose 6 PC	17-0673-01	**45-000-125**	2212.35
Superose 12 PC	17-0674-01	**45-000-126**	2200.80

GE™ Healthcare DEAE-Sepharose™ Media

Developed for process-scale chromatography

Quantity	Mfr. No.	Cat. No.	Each
500mL	17-0710-01	**45-000-134**	711.90

GE™ Healthcare Superdex™ PC Chromatography Columns

Precision Columns (PC) offer high-resolution separations of proteins, peptides and other biomolecules according to size

Description	Mfr. No.	Cat. No.	Each
Superdex 75 PC	17-0771-01	**45-000-142**	2242.80
Superdex 200 PC	17-1089-01	**45-000-184**	2242.80

GE™ Healthcare Phenyl Sepharose™ CL-4B Gel

For immunoglobulin purification and fractionation as well as immunoprecipitation procedures

Volume	Mfr. No.	Cat. No.	Each
200mL	17-0810-01	**45-000-145**	506.10

GE™ Healthcare HiLoad™ Phenyl Sepharose™ HP Columns

Aromatic HIC medium for intermediate purification and polishing

Description	Volume	Mfr. No.	Cat. No.	Each
HiLoad 16/10 Phenyl Sepharose HP	20mL	17-1085-01	**45-000-182**	2399.94

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GE™ Healthcare HiPrep™ Sephacryl™ HR Columns

Maximum recovery and minimum nonspecific adsorption

Description	Sample Types	Bed Volume	Mfr. No.	Cat. No.	Each
HiPrep 16/60 Sephacryl S-100 HR	Peptides and small proteins	1 × 120mL	17-1165-01	**45-000-195**	652.05
HiPrep 16/60 Sephacryl S-200 HR	Purifying antibodies, serum proteins and midsize proteins	1 × 120mL	17-1166-01	**45-000-196**	652.05
HiPrep 16/60 Sephacryl S-300 HR	Purifying antibodies, serum proteins and midsize proteins	1 × 120mL	17-1167-01	**45-000-197**	652.05
HiPrep 26/60 Sephacryl S-100 HR	Peptides and small proteins	1 × 320mL	17-1194-01	**45-000-206**	863.10
HiPrep 26/60 Sephacryl S-200 HR	Purifying antibodies, serum proteins and midsize proteins	1 × 320mL	17-1195-01	**45-000-207**	863.10
HiPrep 26/60 Sephacryl S-300 HR	Purifying antibodies, serum proteins and midsize proteins	1 × 320mL	17-1196-01	**45-000-208**	863.10
HiPrep 26/60 Sephacryl S-400 HR	Polysaccarides, macromolecules with extended structures, small plasmids	1 × 320mL	28935605	**45-002-991**	863.10

GE™ Healthcare Resource™ Columns for IEX

Optimized for rapid, high-resolution purifications

Description	Volume	Mfr. No.	Cat. No.	Each
Resource Q column	1 × 1mL	17-1177-01	**45-000-198**	913.50
Resource Q column	1 × 6mL	17-1179-01	**45-000-200**	2865.45
Resource S column	1 × 1mL	17-1178-01	**45-000-199**	917.70
Resource S column	1 × 6mL	17-1180-01	**45-000-201**	2865.45

GE™ Healthcare Resource™ Columns for HIC

Excellent for polishing in a purification process

Ligand	Bed Volume	Mfr. No.	Cat. No.	Each
Phenyl	1 × 1mL	17-1186-01	**45-000-204**	716.10
One each ether, isopropyl and phenyl	3 × 1mL	17-1187-01	**45-000-205**	1621.20

GE™ Healthcare HiPrep™ 26/10 Desalting Columns

Prepacked with Sephadex™ G-25 fine media to provide reliable and reproducible desalting and buffer exchange with sample sizes of 15mL per column

Volume	Mfr. No.	Cat. No.	Pack of
1 × 53mL	17-5087-01	**45-000-266**	1/611.10
4 × 53mL	17-5087-02	**45-000-267**	4/2062.20

GE™ Healthcare Gel Filtration Calibration Kits

Well-defined protein standards that enable simple, reliable calibration of gel filtration columns

Description	MWCO	Mfr. No.	Cat. No.	Each
LMW Calibration Kit	6500 to 75,000	28-4038-41	**45-001-432**	582.08
HMW Calibration Kit	43,000 to 669,000	28-4038-42	**45-001-433**	582.08

Syringes

SGE™ LC Pump Priming Syringe

For loop fill injection or sample loop flush

For use with	Syringe Volume	Mfr. No.	Cat. No.	Each
Syringe Code 5MDF-LL-GT	5mL	008762	**SG008762**	61.94

Thermo Scientific™ Fixed Needle Autosampler Syringes for Thermo Scientific Instruments

Accurate and reproducible over a range of volumes

Volume	Model	Length	Needle Gauge	Mfr. No.	Cat. No.	Each
5µL	AS3000, AS2000, AS200/AS800	50mm	23	365C3701	**365C3701**	79.50
5µL	AS3000, AS2000	50mm	26	36500505	**03-170-511**	79.50
5µL	TriPlus™	50mm	26	36504047	**03-170-519**	78.40
5µL	TriPlus	80mm	26	36502025	**03-170-516**	90.50
10µL	For AS3000, AS2000 and AS200/AS800	50mm	26	365D1856	**03170300**	239.50
10µL	TriPlus, AS3000, AS2000, AS200/ AS800 split/PTD	50mm	25	36500525	**03170321**	61.60
10µL	TriPlus, AS2000 OC in PTV Merlin™ valve	50mm	23-26	36500580	**03170514**	74.60

SGE™ eVol™ Handheld Automated Analytical Syringe

Improves laboratory workflow

Description	Mfr. No.	Cat. No.	Pack of
Electronic Syringe Starter Kit	2910000	**SG-2910000**	1/1238.00
5µL Syringe, Bevel-Tip Needle	2910020	**SG-2910020**	1/91.55
5µL Syringe, Bevel-Tip Needle	2910320	**03-350-289**	3/230.00
50µL Syringe, Bevel-Tip Needle	2910022	**SG-2910022**	1/92.97
50µL Syringe, Bevel-Tip Needle	2910322	**03-350-290**	3/230.00
500µL Syringe, Bevel-Tip Needle	2910024	**SG-2910024**	1/98.46
500µL Syringe, Bevel-Tip Needle	2910324	**03-350-291**	3/243.00
500µL Syringe, No Needle	2910025	**03-350-286**	1/87.70
Charging Stand for eVol and NMR Syringes	2910030	**SG2910030**	1/411.08

Hamilton™ Company Microliter™ and Gastight™ CTC and LEAP Technologies GC PAL Autosampler Syringes

Designed for use in PAL GC-xt, PAL COMBI-xt, PAL COMBI-xt extended and other autosampler systems

Volume	Termination	Gauge	Point Style	Mfr No.	Cat. No.	Each
Gastight						
10µL	SN	Custom	Custom	203206	**14-685-528**	77.80
25µL	SN	Custom	Custom	203209	**14-685-529**	72.00
25µL	FN	26s	AS	203043	**14-685-523**	128.40
100µL	SN	Custom	Custom	203226	**14-685-531**	120.00
100µL	FN	26s	AS	203076	**14-685-525**	98.40
250µL	SN	Custom	Custom	203219	**14-685-532**	90.80
250µL	FN	26	AS	203078	**14-685-526**	127.70
Microliter						
1.2µL	KH	26s	AS	203185	**14-685-515**	123.90
5µL	FN	26s	AS	203189	**14-685-516**	112.80
5µL	SN	Custom	Custom	203197	**14-685-521**	73.90
Gastight, Slimline						
25µL	FN	26s	AS	203074	**14-685-524**	120.00
25µL	SN	Custom	Custom	203275	**14-685-530**	82.00

Hamilton™ Company 700 Series Microliter™ Syringes

Original hand-fitted Hamilton syringe.

Model	Volume	Point Style	Mfr. No.	Cat. No.	Each
LT Termination					
701	10µL	No Needle Included	80301	**14-813-1**	40.10
702	25µL	No Needle Included	80401	**14-813-18**	42.75
705	50µL	No Needle Included	80501	**14-824-10**	45.15
710	100µL	No Needle Included	80601	**14-824-11**	54.60
725	250µL	No Needle Included	80701	**14-813-65**	67.70
750	500µL	No Needle Included	80801	**14-813-81**	70.10
N Termination, 22, 22s, 26s gauge, 2" (51mm) Needle Length					
701	10µL	2	80384	**14-813-090**	47.20
701	10µL	3	80383	**14-816-208B**	34.20
701	10µL	3	80365	**14-815-287**	36.72
701	10µL	5	80339	**14-813-6**	59.40
702	25µL	2	80400	**14-824-7**	40.45
702	25µL	3	80465	**14-815-288**	40.40
702	25µL	5	80439	**14-813-24**	68.00
RN Termination, 2" (51mm) Needle Length					
75	5µL	2	87930	**14-824-53B**	62.40
701	10µL	2	80330	**14-824-3**	53.50
701	10µL	2	80336	**14-824-1**	299.00
702	25µL	2	80430	**14-813-21**	61.80
750	50µL	2	80530	**14-813-38**	64.10

Hamilton™ Company Microliter™ and Gastight™ CTC and LEAP Technologies LC PAL Autosampler Syringes

Designed for use with CTC LC PAL, HTC PAL, HTS PAL HTX PAL, PAL HTC-xt, PAL HTS-xt, PAL HTX-xt extended and other autosamplers

Model No.	Syringe Type	Standard Needle Dead Volume	Volume	Length	Barrel I.D.	Barrel O.D.	Maximum Pressure	Termination	Mfr. No.	Cat. No.	Each
Gauge: 22s											
701	Microliter	1.13µL	10µL	2" (51mm)	0.485mm	6.60mm	2000 psig (137.9 bar)	FN	203073	**14-685-500**	82.00
1701	Gastight	1.13µL	10µL	2" (51mm)	0.460mm	6.60mm	1000 psig (68.9 bar)	FN	203194	**14-685-501**	86.70
1702	Gastight	1.13µL	25µL	2" (51mm)	0.729mm	7.75mm	1000 psig (68.9 bar)	FN	203075	**14-685-202**	121.40
1702	Gastight	1.13µL	25µL	2" (51mm)	0.729mm	7.75mm	1000 psig (68.9 bar)	FN	203274	**14-685-502**	112.90
Gauge: 22											
1001	Gastight	6.81µL	1mL	2" (51mm)	4.61mm	9.02mm	200 psig (13.8 bar)	LTN	203081	**14-685-504**	73.60
1002	Gastight	6.81µL	2.5mL	2" (51mm)	7.29mm	9.6mm	200 psig (13.8 bar)	LTN	203083	**14-685-505**	80.10
1005	Gastight	6.81µL	5mL	2" (51mm)	10.3mm	13.5mm	200 psig (13.8 bar)	LTN	203085	**14-685-506**	99.70

Hamilton™ Company 1700 Series Calibrated Gastight™ Syringes

Calibrated, fixed-needle syringes

Volume	Gauge	Std. Needle Dead Volume	Mfr. No.	Cat. No.	Each
25µL	22s	1.13uL	CAL80200	**14-813-370**	183.50
10µL	26s	0.64uL	CAL80000	**14-813-371**	180.00

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Hamilton™ Company Threaded Plunger 1700 and 1000 Series Gastight™ Syringes

For applications requiring extremely precise plunger movement or minute fluid manipulation

Model	Volume	Mfr. No.	Cat. No.	Each
LT Termination				
1702	25µL	80266	**14-815-691**	225.50
1710	100µL	81041	**14-816-216**	248.50
1750	500µL	81242	**14-824-40**	260.00
1001	1mL	81341	**14-824-41**	318.00
1002	2.5mL	81441	**14-824-42**	339.00

Hamilton™ Company 700, 1700 and 7000 Series Gastight™ and Microliter™ Digital Syringes

Easily achieves precision up to 0.5% while dispensing volumes from 500µL down to 50nL

Model	Volume	Point Style	Mfr. No.	Cat. No.	Each
KH Termination, 22,23,24,25 gauge, 2.75" Needle Length					
7000.5	0.5µL	3	DS86250	**14-813-312**	1271.00
7000.5	0.5µL	2	DS86259	**14-813-313**	914.00
7001	1µL	3	DS80100	**14-813-272**	844.50
7001	1µL	2	DS80135	**14-813-276**	774.00
RN Termination, 22s, 22 and 26s gauge, 2" Neddle Length					
75	5µL	2	DS87930	**14-813-315**	881.00
701	10µL	2	DS80330	**14-813-281**	814.00
1701	10µL	2	DS80030	**14-813-273**	1036.00
702	25µL	2	DS80430	**14-813-285**	745.00
1702	25µL	2	DS80230	**14-813-278**	781.00
LTN Termination, 22 gauge, 2" Neddle Length					
1750	500µL	2	DS81217	**14-813-308**	852.50
N Termination, 22s, 22 and 26s gauge, 2" Neddle Length					
75	5µL	2	DS87900	**14-813-314**	1004.00
701	10µL	2	DS80300	**14-813-280**	927.50
701	10µL	3	DS80383	**14-813-283**	881.00
1701	10µL	3	DS80075	**14-813-274**	861.00
702	25µL	2	DS80400	**14-813-284**	745.00
702	25µL	3	DS80465	**14-813-286**	766.50
1702	25µL	2	DS80200	**14-813-277**	932.00
1702	25µL	3	DS80275	**14-813-279**	759.50

Hamilton™ Company Microliter™ and Gastight™ Waters U6K HPLC Injection Valve Syringes

Model No.	Volume	Mfr. No.	Cat. No.	Each
800	10, 25, 50, 100, 250µL	84891	**14-815-270**	383.50
801	10µL	84815	**14-815-300**	105.50
802	25µL	84816	**14-815-301**	105.60
805	50µL	84817	**14-815-302**	112.40
810	100µL	84818	**14-815-303**	114.70
825	250µL	84819	**14-815-304**	129.90
1702	25µL	80238	**14-815-36**	68.30
1705	50µL	80938	**14-815-38**	71.60

Hamilton™ Company 1700 Series Gastight™ Gel Loading Syringes

Syringes are designed to work for multiplex DNA sequencing applications

Model	Volume	Point Style	Needle Gauge	Mfr. No.	Cat. No.	Each
N Termination, 1" (25mm) Needle Length						
1701	10µL	3	0.2mm	84511	**14-815-428E**	981.00
1701	10µL	3	0.2mm	80081	**14-815-365**	83.30
1701	10µL	3	0.3mm	84501	**14-815-699**	882.00
1701	10µL	3	0.3mm	84503	**14-815-700**	760.92
1701	10µL	3	0.4mm	84500	**14-815-698**	881.00
RN Termination, 2.75" (70mm) Needle Length						
1701	10µL	3	0.2mm	78633	**14-815-322**	110.70
1701	10µL	3	0.3mm	78631	**14-815-321**	124.00

Hamilton™ Company Microliter™ and Gastight™ Agilent 7670, 7671 and 7672 ALS GC Autosampler Syringes

Syringes are designed to work with Agilent 7670, 7671, and 7672 Automatic Liquid Sampler (ALS) gas chromatography (GC) autosamplers

Description	Syringe Type	Volume	Standard Needle Dead Volume	Barrel I.D.	Material	Max. Pressure	Temperature Range	Mfr. No.	Cat. No.	Each
Cemented Needle Syringes										
Model 1701 N	Gastight	10µL	0.64µL	0.018" (0.460mm)	SST, Borosilicate glass, PTFE	1000 psig (68.9 bar)	10°C (50°F)/50°C (122°F)	80000	**148151**	29.45
Model 701 N	Microliter	10µL	0.64µL	0.019" (0.485mm)	SST, Borosilicate glass	2000 psig (137.9 bar)	10°C (50°F)/50°C (122°F)	80300	**14-824**	29.35
Model 701 N (6 pack)	Microliter	10µL	0.64µL	0.019" (0.485mm)	SST, Borosilicate glass	2000 psig (137.9 bar)	10°C (50°F)/50°C (122°F)	80366	**14-824-16**	122.81
Model 75 N	Microliter	5µL	0.64µL	0.014" (0.343mm)	SST, Borosilicate glass	2000 psig (137.9 bar)	10°C (50°F)/50°C (122°F)	87900	**14-824-53A**	48.75
Removable Needle Syringes										
Model 1701 Small RN	Gastight	10µL	0.55µL	0.018" (0.460mm)	SST, Borosilicate glass, PTFE	1000 psig (68.9 bar)	10°C (50°F)/115°C (239°F)	80011	**14-815-692**	98.90
Model 701 Small RN	Microliter	10µL	0.64µL	0.019" (0.485mm)	SST, Borosilicate glass	2000 psig (137.9 bar)	10°C (50°F)/115°C (239°F)	80338	**14-813-8**	80.00

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Hamilton™ Company Gastight™ Valco™ VISF-1 HPLC Injection Valve Syringes

Designed for use in Valco VISF-1 HPLC injection valves

Model No.	Volume	Gauge	Standard Needle Dead Volume	Barrel I.D.	Barrel O.D.	Pressure	Mfr. No.	Cat. No.	Each
1702	25µL	22s	0.42µL	0.729mm	7.75mm	1000 psig (68.9 bar)	80231	**14-815-314**	70.70
1705	50µL	22s	0.42µL	1.03mm	7.75mm	1000 psig (68.9 bar)	80931	**14-815-315**	75.60
1710	100µL	22s	0.42µL	1.46mm	7.75mm	1000 psig (68.9 bar)	81031	**14-815-316**	75.60
1725	250µL	22s	0.42µL	2.30mm	7.75mm	500 psig (34.5 bar)	81131	**14-815-317**	84.00

AirTite™ All-Plastic Norm-Ject™ Syringes

Inert syringes for use in gas or liquid chromatography, in vitro fertilization (IVF), embryo-transfer, and various laboratory procedures

Capacity	Type	Graduations	Mfr. No.	Cat. No.	Pack of	Case of
1mL	Tuberculin[1]	0.05cc	A1	**14-817-25**	100/23.05	18 Pk./346.00
3mL	Centric Luer Slip	0.1cc	A3	**14-817-26**	100/15.60	25 Pk./291.63
3mL	Luer Lok	0.1cc	AL3	**14-817-27**	100/30.35	25 Pk./628.00
5mL	Centric Luer Slip	0.2cc	A5	**14-817-28**	100/22.60	20 Pk./384.50
5mL	Luer Lok	0.2cc	AL5	**14-817-29**	100/35.40	20 Pk./596.50
10mL	Eccentric Luer Slip	0.5cc	A10	**14-817-30**	100/28.30	12 Pk./287.00
10mL	Luer Lok	0.5cc	AL10	**14-817-31**	100/40.70	12 Pk./410.50
10mL	Eccentric Luer Slip	0.05cc	AB10LS	**14-817-43**	----	2000 Pk./452.00
10mL	Centric Luer Slip	0.05cc	ABC10LS	**14-817-44**	----	100 Pk./32.20
20mL	Eccentric Luer Slip	1cc	AL20	**14-817-32**	100/46.95	8 Pk./319.50
20mL	Luer Lok	1cc	A30	**14-817-33**	100/58.90	8 Pk./405.50
20mL	Centric Luer Slip	0.05cc	ABC20LS	**14-817-51**	----	100 Pk./58.50

[1]Dose saver design with low dead space plug on the piston minimizes waste

Air-Tite™ HSW Soft-Ject™ Disposable Syringes

High-quality, three-part disposable rubber piston syringes

Description	Mfr. No.	Cat. No.	Pack of
3mL Luer Lock	RL3	**14-817-52**	100/13.87
5mL Luer Lock	RL5	**14-817-53**	100/24.50
10mL Luer Lock, graduated to 12mL	RL10	**14-817-54**	100/27.60
20mL Luer Lock	RL20	**14-817-55**	100/52.80
30mL Luer Lock	RL30	**14-817-56**	100/55.96
50mL Luer Lock, graduated to 60mL	RL50	**14-817-57**	1/59.30

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Autosamplers

Thermo Scientific™ National™ Precision Target™ GC Syringes for Agilent™ Technologies Autosamplers

Use with 7673 Series, 7683 Series, and 6850 ALS

Capacity	Plunger Description	Gauge	Needle Length	Point Style	Mfr. No.	Cat. No.	Price
Removable Needle Syringes							
5µL	N/A	23-26s	42mm	Cone-shaped Blunt	NS104308	**03-378-150**	97.70
10µL	N/A	23-26s	42mm	Cone-shaped Blunt	NS104408	**03378151**	68.10
10µL	Gastight PTFE-tipped	23-26s	42mm	Cone-shaped Blunt	NS604408	**03378152**	75.61
Fixed Needle Syringes							
5µL	Super Elastic	23-26s	42mm	Cone-shaped 90° Blunt	NS164304	**03378155**	72.20
10µL	Super Elastic	23-26s	42mm	Cone-shaped 90° Blunt	NS164404	**03378156**	67.90
5µL	Gastight PTFE-tipped	26s	42mm	Cone-shaped 90° Blunt	NS604303	**03378157**	75.10
10µL	Gastight PTFE-tipped	26s	42mm	Cone-shaped 90° Blunt	NS604403	**03378158**	74.00
Replacement Needles							
10µL	N/A	23-26s	42mm	Cone-shaped Blunt	NS834408	**03-378-154**	Pk. of 3/42.70

Thermo Scientific™ National™ Target™ Syringes for HP™ 7673 Autosampler

Choose from tapered or straight shank fixed-needle syringes with stainless-steel or PTFE-tipped plungers

Capacity	Plunger	Mfr. No.	Cat. No.	Pack of
23s/26s Syringes				
5µL	Stainless-Steel	NS104304	**03-391-15B**	1/91.40
5µL	Stainless-Steel	NS104314	**03-391-15E**	6/410.89
5µL	PTFE	NS604314	**03-391-17E**	6/386.18
23s Syringes				
5µL	Stainless-Steel	NS104305	**03-391-15C**	1/55.60
5µL	Stainless-Steel	NS104315	**03-391-15F**	6/366.11
5µL	PTFE	NS604305	**03-391-17C**	1/65.50
26s Syringes				
5µL	Stainless Steel	NS104303	**03-391-15A**	1/74.47
5µL	Stainless Steel	NS104313	**03-391-15D**	6/443.00

Thermo Scientific™ National™ Precision Target™ GC Fixed Needle Syringes for Shimadzu™ Autosamplers

Use with AOC-14™, AOC-17™ and AOC-20™ Models

Capacity	Gauge	Mfr. No.	Cat. No.	Each
5µL	26s	NS105303	**03-378-159**	91.40
10µL	26s	NS105403	**03-378-161**	82.20
10µL	23s	NS105404	**03-376-233**	80.10

Thermo Scientific™ National™ Target™ Precision LC Syringes for CTC/Leap™

Use with A200LC, HTS and HTC PAL models

Capacity	Mfr. No.	Cat. No.	Each
25µL	NS620502	**03378235**	106.62
50µL	NS620605	**03378236**	90.04
100µL	NS620702	**03378237**	91.50

Hamilton™ Company Syringes for Agilent™ Technologies GC Autosamplers

For use with Agilent Technologies HP7673, HP7683, HP7670, HP7671, and HP7672 autosamplers

Model	Capacity	Gauge	Point Style	Mfr. No.	Cat. No.	Pack of
175ASN	5µL	23s	HP	80090	**14-813-129**	6/376.50
175ASN	5µL	23s/26s	HP	80076	**14-813-260**	1/68.30
175ASN	5µL	23s/26s	HP	80092	**14-813-261**	6/376.50

SGE™ Autosampler Syringes

Replace syringes for Agilent™ Technologies, Varian™, Perkin Elmer™, Shimadzu™, Carlo Erba™, Fisons™, CTC/Leap™, Hitachi™ and more

Capacity	Type	Mfr. No.	Cat. No.	Each
1µm	Cone Point Style	000553	**SG-000553**	125.00
Agilent Technologies HP 7673 and HP 7683				
0.5µL	Cone Point Style	000400	**SG-000400**	110.62
0.5µL	Cone Point Style	000410	**SG-000410**	117.63
0.5µL	Cone Point Style	000415	**SG000415**	138.45
5µL	Fixed-Needle Syringe	001804	**SG-001804**	464.00
5µL	Fixed-Needle Syringe	001810	**SG-001810**	84.25
5µL	Fixed-Needle Syringe	001814	**SG-001814**	471.50
5µL	Removable-Needle Syringe	001815	**SG-001815**	96.80
5µL	Fixed-Needle Syringe	001821	**SG001821**	74.79
5µL	Fixed-Needle Syringe	001822	**SG001822**	433.50
5µL	Removable-Needle Syringe	001825	**SG-001825**	88.90
Carlo Erba/Fisons/Leap/CTC ASD200 and AS800				
0.5µL	Cone Point Style	000490	**SG-000490**	96.01
5µL	Fixed-Needle Syringe	001981	**SG001981**	95.00
5µL	Fixed-Needle Syringe	001982	**SG001982**	96.90
10µL	Fixed-Needle Syringe	002980	**SG002980**	52.60
10µL	Fixed-Needle Syringe	002981	**SG-002981**	69.30
10µL	Removable-Needle Syringe	002982	**SG-002982**	63.13
10µL	Fixed-Needle Syringe	002986	**SG002986**	272.02
10µL	Fixed-Needle Syringe	002987	**SG-002987**	65.90
Perkin Elmer Autosystem				
5µL	Fixed-Needle Syringe	001953	**SG-001953**	79.78
5µL	Fixed-Needle Syringe	001954	**SG-001954**	103.30
5µL	Fixed-Needle Syringe	001957	**SG-001957**	114.90
Shimadzu Models AOC14, AOC17, AOC20, AOC20i				
5µL	Cone Point Style	001988	**SG-001988**	88.10
10µL	Cone Point Style	002897	**SG-002897**	104.24
10µL	Cone Point Style	002898	**SG-002898**	101.90
0.5µm	Cone point style	000445	**SG000445**	117.83
Varian 8035, 8100 and 8200				
10µL	Removable-Needle Syringe	002924	**SG-002924**	384.18
For CTC GCs				
0.5µm	Cone point style	000492	**SG000492**	96.01

SGE™ CTC PAL Fixed Needle Syringes

Gas-tight

Syringe Volume	Needle Length	Needle O.D.	Tip	Gauge	Mfr. No.	Cat. No.	Each
25µL	50mm	0.63mm	Cone	23	003987	**SG003987**	111.30

Thermo Scientific™ National™ Precision Target™ Series N Fixed Needle Syringes

Use with JADE™ and Merlin™ septumless injectors, split and splitless mode

Capacity	Gauge	Mfr. No.	Cat. No.	Pack of
5µL	26s	NS100301	**03-377-201**	1/44.50
5µL	26s	NS100311	**03-377-203**	6/273.72
10µL	26s	NS100401	**03-377-204**	1/34.15
10µL	26s	NS100411	**03-277-205**	6/183.00
25µL	22s	NS100501	**03-377-207**	1/41.90
100µL	22s	NS100701	**03-377-211**	1/48.45

SGE™ Series II Standard Syringes

Standard syringes with anti-roll flange and needles that are aligned with zero mark on barrel to reduce dead volume, improve accuracy and precision to <±1%

Capacity	Replacement Needle	Graduations Major	Graduations Minor	Cat. No.	Pack of
Fixed-Needle Syringes					
5µL	----	0.5µL	0.1µL	**SG-001000**	1/48.15
10µL	----	1.0µL	0.2µL	**SG-002000**	1/28.22
10µL	----	1.0µL	0.2µL	**SG-002030**	6/153.10
10µL	----	1.0µL	0.2µL	**SG-002033**	10/252.74
Removable-Needle Syringes					
5µL	SG-036110	0.5µL	0.1µL	**SG-001050**	1/68.09
10µL	SG-037110	1.0µL	0.2µL	**SG-002050**	1/62.73
10µL	SG-037110	1.0µL	0.2µL	**SG-002080**	6/340.00
25µL	SG-038110	2.5µL	0.5µL	**SG-003050**	1/69.12

Thermo Scientific™ National™ Target™ Precision LC Syringes Manual Injection Valves

Use with Rheodyne™, Altex™, Valco™, SSI™, and Knauer™ valves

Capacity	Plunger Description	Mfr. No.	Cat. No.	Pack of
Fixed Needle Syringes				
5µL	Stainless-Steel	NS101302	**03-378-246**	1/54.00
10µL	Stainless-Steel	NS101402	**03-377-217**	1/41.10
25µL	Stainless-Steel	NS101502	**03-377-218**	1/43.35
Removable Needle Syringes				
10µL	PTFE-tipped Stainless-Steel	NS601406	**03-378-250**	1/65.10
25µL	PTFE-tipped Stainless-Steel	NS601506	**03-378-251**	1/65.70
Replacement Needles				
5µL	N/A	NS831305	**03-378-256**	3/22.56
10µL	N/A	NS831405	**03-378-257**	3/25.10

Gastight

Thermo Scientific™ National™ Target™ Precision Glass Syringes, Rheodyne Style Valves

Gastight with fixed needles

Capacity	Mfr. No.	Cat. No.	Each
10µL	NS601402	**03-377-270**	59.79
25µL	NS601502	**03377271**	50.91
50µL	NS601602	**03377272**	53.87
100µL	NS601702	**03377273**	57.36
250µL	NS601802	**03377274**	60.34
500µL	NS601902	**03377275**	61.26

Thermo Scientific™ National™ Target™ Precision Glass Syringes, Gastight with Luer Tip

Glass Luer-slip tip is compatible with standard Luer profile needles and fittings

- Sold without needle

Capacity	Mfr. No.	Cat. No.	Each
25µL	NS600511	**03-377-253**	50.48
50µL	NS600611	**03-377-257**	55.20
100µL	NS600711	**03-377-261**	57.98
250µL	NS600811	**03-377-265**	73.00
500µL	NS600911	**03-377-269**	70.62

Thermo Scientific™ National™ Large Volume Syringes

22s Gauge needles with PTFE tipped stainless-steel plungers

Volume	Needle Gauge	Mfr. No.	Cat. No.	Each
1mL	22s	NS600000	**03-377-230**	58.80
2.5mL	22s	NS600020	**03-377-234**	62.10
5mL	22s	NS600040	**03-377-238**	68.80
10mL	22s	NS600060	**03-377-242**	74.70
2.5mL	22s	NS600025	**03-377-235**	79.40

Thermo Scientific™ National™ Removable Needle Syringes

Precision syringes for accurate dosing of liquids or gases

- PTFE-tipped stainless-steel plunger eliminates frozen plungers
- Bevel point needle

Volume	Needle Gauge	Needle Point	Needle Sheath	Mfr. No.	Cat. No.	Each
250µL	26s	Bevel point	Bevel	NS600805	**03-377-263**	69.92
1.0mL	22s	Bevel point	Bevel	NS600005	**03-377-231**	82.79
5.0mL	22s	Bevel point	Bevel	NS600045	**03-377-239**	110.39
10.0mL	22s	Bevel point	Bevel	NS600065	**03-377-243**	107.50

Thermo Scientific™ National™ Target™ Precision Gastight Syringes

Accurately dose liquid or gas samples

Capacity	Gauge	Point Style	Mfr. No.	Cat. No.	Each
Fixed Needle Syringes					
5µL	26s	Bevel	NS600301	**03-377-246**	57.51
5µL	26s	90°	NS600302	**03-378-167**	57.09
10µL	26s	Bevel	NS600401	**03-377-248**	47.80
10µL	26s	90°	NS600402	**03-378-168**	61.03
Removable Needle Syringes					
5µL	26s	Bevel	NS600305	**03-377-247**	58.75
10µL	26s	Bevel	NS600405	**03-377-249**	59.38
10µL	26s	90°	NS600406	**03-378-181**	62.68

Thermo Scientific™ National™ Target™ Precision Gastight PTFE Luer-Lok™ Syringes

Feature a precision-machined PTFE-tipped plunger

Capacity	Point Style	Needle Sheath	Mfr. No.	Cat. No.	Pack of
PTFE Luer-Lok plungers					
5µL	N/A	N/A	NS600309	**03-378-200**	1/87.40
10µL	N/A	N/A	NS600409	**03-378-201**	1/88.20
25µL	N/A	N/A	NS600509	**03-378-202**	1/79.40
50µL	N/A	N/A	NS600609	**03-377-256**	1/61.80
100µL	N/A	N/A	NS600709	**03-377-260**	1/62.40
Needles					
N/A	26s	90° Blunt End	NS842047	**03-378-268**	3/30.50
N/A	26s	Bevel	NS840047	**03-378-209**	3/30.25

Thermo Scientific™ National™ Target™ Precision Glass Syringes, Side Hole, Fixed Needle

Suitable for liquid or gas samples

- 26s and 22s gauge needles
- PTFE-tipped stainless-steel plunger eliminates frozen plungers

Capacity	Needle Gauge	Mfr. No.	Cat. No.	Each
1.0mL	22s	NS600002	**03-378-175**	88.60
5.0mL	22s	NS600042	**03-378-177**	82.00
250µL	26s	NS600801	**03-377-262**	61.30

Hamilton™ Company 1800 Series Gastight™ Syringes

Reinforced plunger version of the 1700 series syringes is ideal for dispensing volumes from 1 µL up to 500 µL.

Model	Volume	Needle Gauge	Mfr. No.	Cat. No.	Each
Fixed-Needle Syringes, N Termination, 2" Needle Length					
1801	10µL	26s	84875	**14-815-250**	101.90
1802	25µL	22s	84878	**14-815-252**	108.90
1805	50µL	22s	84881	**14-815-254**	112.40
1810	100µL	22s	84884	**14-815-256**	114.70
1825	250µL	22s	84887	**14-815-258**	123.00
Removable-Needle Syringes, RN Termination, 2" Needle Length					
1801	10µL	26s	84877	**14-815-251**	125.30
1802	25µL	22s	84880	**14-815-253**	125.30
1805	50µL	22s	84883	**14-815-255**	128.80
1810	100µL	22s	84886	**14-815-257**	131.20
1825	250µL	22s	84889	**14-815-259**	139.30

Hamilton™ Company 1000 Series Gastight™ Syringe

Mid-volume Gastight syringe ideal for dispensing volumes from 100 µL up to 100 mL. A variety of different terminations and needle options are available in this series.

Model	Volume	Point Style	Mfr. No	Cat. No.	Each
Luer-Tip Syringes, LT Termination					
1001	1mL	No Needle Included	81301	**14-824-24**	60.79
1001.25	1.25mL	No Needle Included	82001	**14-815-139**	89.80
1002	2.5mL	No Needle Included	81401	**13-684-108**	59.20
1005	5mL	No Needle Included	81501	**14-824-23**	72.30
1010	10mL	No Needle Included	81601	**14-824-34**	88.90
Fixed-Needle Syringes, LTN Termination, 22 gauge, 2 in. Needle Length					
1001	1mL	3	81316	**14-813-143**	64.16
1001	1mL	2	81317	**14-824-25**	57.83
1001	1mL	5	81343	**14-815-128**	74.50
1001.25	1.25mL	2	82017	**14-815-138**	83.00
1001.25	1.25mL	3	82016	**14-813-147**	93.10
Removable-Needle Syringes, RN Termination, 22 gauge, 2 in. Needle Length					
1001	1mL	2	81330	**14-815-127**	80.99
1001	1mL	3	81365	**13-621-502**	82.90
Luer Lock Syringes, TLL Termination					
1001	1mL	No Needle Included	81320	**13-684-94**	46.00
1001	1mL	No Needle Included	81327	**14-815-129**	101.40
1002	2.5mL	No Needle Included	81420	**13-684-95**	64.16
1002	2.5mL	No Needle Included	81427	**14-815-154**	83.70

SGE™ Gastight Syringes

Suitable for liquid and gas samples

		Graduations				
Capacity	Replacement Needle	Major	Minor	Mfr. No.	Cat. No.	Pack of
Fixed-Needle Models						
10µL	----	1.0µL	0.2µL	002200	**SG-002200**[1]	1/52.26
10µL	----	1.0µL	0.2µL	002202	**SG-002202**	6/287.00
10µL	----	1.0µL	0.2µL	002208	**SG-002208**[2]	1/56.94
25µL	----	2.5µL	0.5µL	003200	**SG-003200**	1/59.16
Removable-Needle Models						
10µL	SG-037110	1.0µL	0.2µL	002250	**SG-002250**	1/68.82
10µL	SG-037110	1.0µL	0.2µL	002252	**SG-002252**	6/386.00
25µL	SG-038110	2.5µL	0.5µL	003250	**SG-003250**	1/68.92
50µL	SG-038110	5.0µL	1.0µL	004250	**SG-004250**	1/66.20
Fixed Luer-Tip Models						
50µL	----	5.0µL	1.0µL	004229	**SG-004229**	1/58.40
250µL	----	25.0µL	5.0µL	006229	**SG-006229**	1/72.97
Fixed Luer-Lok Models						
50µL	----	5.0µL	1.0µL	004230	**SG-004230**	1/66.77
100µL	----	10.0µL	2.0µL	005230	**SG-005230**	1/66.40
250µL	----	25.0µL	5.0µL	006230	**SG-006230**	1/67.70
500µL	----	50.0µL	10.0µL	007230	**SG-007230**	1/69.60
Removable Luer-Lok Models						
5.0mL	----	0.5mL	0.1mL	008760	**SG-008760**	1/90.03
10.0mL	----	1.0mL	0.2mL	008960	**SG-008960**	1/93.40

SGE™ Gastight Syringes for Rheodyne™ and Valco™ Valves

Square cut needle with no electrotaper

Description	Volume	Mfr. No.	Cat. No.	Pack of
Syringe	100µL	005312	**SG-005312**	1/59.27
Syringe	500µL	007312	**SG-007312**	1/80.49
Syringe	2.5mL	008505	**SG-008505**	1/101.89
Fixed Needle Syringe	100µL	005300	**SG-005300**	49.58
Replacement Needle	50µL	031820	**SG-031820**	1/35.78
Replacement Needle	1mL	039250	**SG-039250**	5/43.70

General Purpose

Thermo Scientific™ National™ Target™ All-Plastic Disposable Syringes

Disposable syringes with polyethylene barrels and polypropylene plungers; use for all syringe filter applications

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
Luer-Slip Syringes				
1mL	S7510-1	**03-377-20**	100/50.20	10 Pk./414.50
3mL	S7510-3	**03-377-21**	100/29.15	10 Pk./246.50
5mL	S7510-5	**03-377-22**	100/46.85	10 Pk./397.00
Luer-Lok™ Syringes				
3mL	S7515-3	**03-377-27**	100/74.70	10 Pk./649.00
5mL	S7515-5	**03-377-28**	----	1000 Pk./768.00

Thermo Scientific™ National™ Target™ Precision Liquid Dosing, Fixed Needle

For accurate dosing of liquids or gases

- 22s gauge bevel type fixed needles

Capacity	Mfr. No.	Cat. No.	Each
250µL	NS100801	**03-377-213**	56.50
500µL	NS100901	**03-377-215**	59.67
50µL	NS100601	**03-377-209**	46.15

Hamilton™ Company Microlab™ Accessories - Printer Kit

Printer kit works with the Advanced Microlab 600 Diluter and Dispenser and with the Microlab 300 Pipettor System

- Satisfies regulatory CFR21 Part 11 and FDA GMP/GLP requirements by conveniently printing all log files directly from the device's controller
- Microlab 600 diluter/dispenser printer kit interfaces with the free compliance software package that is available for Advanced devices
- Kit automatically is compatible with all Microlab 300 pipettors

Description	Mfr. No.	Cat. No.	Each
Microlab Printer Kit	61500-04	**14-816-296**	600.00

AirTite™ All-Plastic Norm-Ject™ Syringes

Inert syringes for use in gas or liquid chromatography, in vitro fertilization (IVF), embryo-transfer and various laboratory procedures

Capacity	Type	Graduations	Mfr. No.	Cat. No.	Pack of	Case of
1mL	Tuberculin	0.05cc	A1	**14-817-25**	100/23.05	18 Pk./346.00
3mL	Centric Luer Slip	0.1cc	A3	**14-817-26**	100/15.60	25 Pk./291.63
3mL	Luer Lok	0.1cc	AL3	**14-817-27**	100/30.35	25 Pk./628.00
5mL	Centric Luer Slip	0.2cc	A5	**14-817-28**	100/22.60	20 Pk./384.50
5mL	Luer Lok	0.2cc	AL5	**14-817-29**	100/35.40	20 Pk./596.50
10mL	Eccentric Luer Slip	0.5cc	A10	**14-817-30**	100/28.30	12 Pk./287.00
10mL	Luer Lok	0.5cc	AL10	**14-817-31**	100/40.70	12 Pk./410.50
10mL	Eccentric Luer Slip	0.05cc	AB10LS	**14-817-43**	2000/452.00	----
10mL	Centric Luer Slip	0.05cc	AB-C10LS	**14-817-44**	100/32.20	----

Upchurch Scientific™ One-Piece, High-Pressure Fingertight Fittings

Fingertight fittings offer the convenience of making a tubing connection without the need for wrenches or specialized tools when tightening the fitting into place

- Pressures up to 7000psi (483 bar)
- Temperatures up to 125°C
- Fingertights for 1/16" OD and smaller tubing

For Use With	Color	Length	Pressure	Mfr. No.	Cat. No.	Each
0.062 in. O.D. Tubing	Natural	0.82 in.	4000psi	F-100NX	**05-700-13**	114.70
0.625 in. O.D. Tubing	Natural	0.82 in.	5000psi	F-120X	**05-700-1**	75.80
0.625 in. O.D. Tubing	Natural	1.03 in.	6000psi	F-130X	**05-700-3**	75.80
0.062 in. O.D. Tubing	Black	1.03 in.	6000psi	F-130BLK	**05-700-346**	6.62
0.062 in. O.D. Tubing	Black	1.03 in.	6000psi	F-130BLKX	**05-700-347**	74.10

Upchurch Scientific™ Valves

WARRANTY: One-year parts and labor

Description	Swept Volume	Mfr. No.	Cat. No.	Each
Right angle flow switching valve	6.2µL	V-100L	**05-704-18**	130.20
3-way flow switching valve	9.7µL	V-100T	**05-704-20**	130.20
Right angle flow switching valve; Bulkhead	6.2µL	V-101L	**05-704-24**	140.50
6-way selection valve	11.5µL	V-240	**05-704**	267.50
2-way injection valve	5.1µL	V-450	**05-704-6**	268.00
2-way injection valve; Bulkhead	5.1µL	V-451	**05-704-7**	276.00

Upchurch Scientific™ Stainless-Steel Adapters

For Use With	Swept Volume	Mfr. No.	Cat. No.	Each
10-32 to 1/4-28 Adapter	60µL	1583	**05-700-38**	30.17
Male 10-32 To Male 1/4-28 Adapter	15.9µL	1586	**05-700-39**	33.48

Upchurch Scientific™ PEEK™ Tubing

Can be used in place of stainless steel tubing in most liquid analytical systems

- Biocompatible, inert and easy to cut
- Great for high-pressure applications
- Wide choice of outer and inner diameters

Inside Diameter	Pressure	Length	Mfr. No.	Cat. No.	Each
Length: 5 ft.					
0.005"	7000psi	5'.	1535	**05-701**	30.60
0.005"	2000psi	5'	1541	**05-701-25**	34.95
0.007"	7000psi	5'	1536	**05-701-1**	20.76
0.01"	7000psi	5'	1531	**05-701-2**	21.40
0.01"	7000psi	5'	1531B	**05-701-3**	20.76
0.01"	2000psi	5'	1542	**05-701-26**	30.34
0.02"	7000psi	5'	1532	**05-701-4**	21.40
0.03"	7000psi	5'.	1533	**05-701-5**	21.40
Length: 50 ft.					
0.005"	7000psi	50'	1535L	**05-701-18**	310.50
0.007"	7000psi	50'	1536L	**05-701-20**	209.33
0.01"	7000psi	50'	1531BL	**05-701-12**	209.33
0.01".	7000psi	50'	1531L	**05-701-10**	209.33
0.02"	7000psi	50'	1532L	**05-701-14**	209.33
0.03"	7000psi	50'	1533L	**05-701-16**	215.50
Length: 100 ft.					
0.005"	7000psi	100'	1535XL	**05-701-19**	499.00
0.007"	7000psi	100'	1536XL	**05-701-21**	290.50
0.01"	7000psi	100'	1531XL	**05-701-11**	333.50
0.01"	7000psi	100'	1531BXL	**05-701-13**	362.50

Upchurch Scientific™ FEP Tubing

Color	Inside Diameter	Length	Pressure	Mfr. No.	Cat. No.	Each
Natural	0.030"	20'	1000psi	1520	**05-701-41**	47.26
Green	0.030"	20'	1000psi	1520G	**05-701-184**	47.26
Natural	0.030"	50'	1000psi	1520L	**05-701-173**	120.97
Natural	0.030"	100'	1000psi	1520XL	**05-701-172**	209.31
Blue	0.062"	50'	500psi	1521BL	**05-701-190**	179.85
Natural	0.062"	50'	500psi	1521L	**05-701-169**	180.67
Orange	0.062"	50'	500psi	1521ORL	**05-701-194**	155.02
Orange	0.062"	100'	500psi	1521ORXL	**05-701-195**	264.00
Red	0.062"	100'	500psi	1521RXL	**05-701-197**	294.00
Natural	0.062"	100'	500psi	1521XL	**05-701-168**	264.07
Yellow	0.062"	50'	500psi	1521YL	**05-701-198**	172.70
Yellow	0.062"	100'	500psi	1521YXL	**05-701-199**	272.00

Upchurch Scientific™ Cartridge Guard

Guard columns extend the life of analytical column while helping ensure reproducible results

- 100% biocompatible flow path
- Reusable cartridge holders
- Protects columns with like packing

Inside Diameter	Mfr. No.	Cat. No.	Each
0.006 - 0.010" (150 - 254µm)	C-280	**05-702-108**	181.28
0.13 - 0.189" (3.3 - 4.80mm)	C-750	**05-702-54**	167.80

Upchurch Scientific™ Threaded Port Adapters

Threaded port adapters help bring products with different thread configurations together

Thru Hole	Material	Swept Volume	Thread Size	Mfr. No.	Cat. No.	Each
----	Tefzel™ (ETFE)	----	1/4-28 Flat Bottom to M6 Flat Bottom	P-621	**05-700-150**	6.39
0.02"	PEEK™	0.30µL	10-32 Coned to M6 Flat Bottom	P-626	**05-700-155**	33.20
0.02"	PEEK	0.30µL	10-32 to 1/4-28	P-627	**05-700-156**	32.24
0.04"	Stainless steel	0.6µL	10-32 Coned to M6 Flat Bottom	1587	**05-700-40**	25.65
0.03"	Kel-F™ (PCTFE)	2.55µL	1/4-28 Flat Bottom to M6 Flat Bottom	P-670	**05-700-342**	26.25
0.03"	PEEK	6.7µL	10-32 Coned to M6 Flat Bottom	P-650	**05-703-27**	17.50
0.03"	PEEK	6.7µL	10-32 to 1/4-28	P-652	**05-703-29**	18.84
0.03"	PEEK	6.7µL	10-32 to 1/4-28	P-654	**05-700-325**	19.96

Upchurch Scientific™ Flat-Bottom Fittings

Flangeless fitting eliminates the need to flange tubing. Just slide one of our Flangeless nuts onto your tubing with one of our Flangeless ferrules (coned end toward the nut) and finger tighten.

Color	O.D	W x L	Material	Thread Length	Mfr. No.	Cat. No.	Each
Ferrules							
Natural	1/16"	0.18 " × 0.22"	Polypro-pylene	----	P-221	**05-700-89**	1.31
Natural	1/8"	0.19" × 0.19"	Tefzel™ (ETFE)	----	P-300N	**05-700-101**	1.66
Natural	1/32 to 1/16"	0.37" × 0.87"	PFA	0.48"	P-246X	**05-701-346**	15.55
Red	1/32 to 1/16"	0.58" × 0.68"	PEEK™	0.31"	P-251RX	**05-700-320**	29.91
Blue	1/16"	0.37" × 0.87"	Tefzel (ETFE)	0.62"	P-210X	**05-700-86**	20.15
Blue	1/16"	0.37" × 0.87"	Tefzel (ETFE)	0.48"	P-215BX	**05-700-300**	19.65
Black	1/16"	0.37" × 0.87"	Tefzel (ETFE)	0.48"	P-215BLKX	**05-700-299**	19.17
Winged Nuts							
Natural	1/32 to 1/16"	0.58" × 0.58"	PEEK™	0.31"	P-251X	**05-700-93**	33.40
Blue	1/32 to 1/16"	0.58" × 0.68"	PEEK™	0.31"	P-251BX	**05-700-318**	30.45

Upchurch Scientific™ ETFE Tubing

ETFE tubing is chemically inert and suitable for higher pressure applications (when using aqueous mobile phases)

- Excellent solvent resistance
- More durable and less gas permeable than PTFE, FEP and PFA
- Operating temperatures up to 80°C

Color	Inside Diameter	Pressure	Mfr. No.	Cat. No.	Each
Length: 5'					
Black	0.055 - 0.065"	1000psi	1515	**05-701-209**	19.00
Natural	0.021 - 0.030"	2000psi	1528	**05-701-49**	14.16
Natural	0.006 - 0.010"	4000psi	1529	**05-701-50**	14.16
Natural	0.055 - 0.065"	1000psi	1530	**05-701-51**	22.19
Length: 50'					
Natural	0.021 - 0.030"	2000psi	1528L	**05-700-304**	150.10
Natural	0.055 - 0.065"	1000psi	1530L	**05-700-302**	222.50
Length: 100'					
Natural	0.021 - 0.030"	2000psi	1528XL	**05-700-303**	242.07
Natural	0.006 - 0.01"	4000psi	1529XL	**05-701-164**	204.50
Natural	0.055 - 0.065"	1000psi	1530XL	**05-700-301**	376.29
Tubing Kit					
----	Multiple	4000psi	1325	**05-701-38**	100.30

Upchurch Scientific™ Threaded Plugs and Caps

Plugs to close off unused ports in valves and multi-port connectors

- Seal 6-32, 10-32, 1/4-28, M6 x 1 and 5/16-24 threaded ports
- Cap off tubing pathways using one of our threaded caps

Color	For Port Type	Material	Mfr. No.	Cat. No.	Each
Plugs					
Black	1/4-28 Flat Bottom	Delrin™ (Acetal)	P-309X	**05-700-110**	16.21
Natural	1/4-28 Flat Bottom	Tefzel™ (ETFE)	P-311	**05-700-111**	2.41
Black	M6 Flat Bottom	Tefzel (ETFE)	P-314	**05-700-114**	2.37
Natural	1/4-28 Flat Bottom	PFA	P-316	**05-701-350**	2.54
Natural	10-32 Coned	PEEK™	P-550	**05-703-13**	3.28
White	6-32 Coned	Delrin (Acetal)	P-553	**05-700-362**	6.57
White	10-32 Coned	Delrin (Acetal)	P-554	**05-700-363**	6.59
Natural	5/16-24 Flat Bottom	PEEK	P-556	**05-701-443**	22.85
Blue	10-32 Coned	Delrin (Acetal)	U-467BX	**05-700-261**	10.35
Black	10-32 Coned	Delrin (Acetal)	U-467BLKX	**05-700-260**	10.65
Red	10-32 Coned	Delrin (Acetal)	U-467RX	**05-700-262**	10.35
White	10-32 Coned	Delrin (Acetal)	U-467WX	**05-700-263**	10.35
White	10-32 Coned	Tefzel (ETFE)	U-468NX	**05-700-264**	12.67
Caps					
Yellow	10-32 Coned	Tefzel (ETFE)	P-754	**05-700-190**	3.38
Black	1/4-28 Flat Bottom	Tefzel (ETFE)	P-755	**05-700-191**	3.38
Blue	M6 Flat Bottom	Tefzel (ETFE)	P-756	**05-700-192**	3.28

Upchurch Scientific™ Stainless-Steel Tubing

Seamless, precut stainless steel tubing is specially prepared for the exacting requirements of todays analyses

Stainless steel is naturally self-passivating, forming an oxidation layer on newly created surfaces. Upchurch Scientific takes extra steps to ensure the chemical resistance of the stainless steel tubing by manually passivating before and after the tubing is cut into specified lengths.

- Precut stainless steel tubing
- Color-coded bands for easy ID identification

Inside Dia.	Outside Dia.	Color Code	Length	Mfr. No.	Cat. No.	Each
150-254µm	1.57mm	Black	5cm	U 126	**05-701-117**	4.57

Upchurch Scientific™ FEP Tubing

Chemically inert and suitable for lower pressure applications

- Great for general, low pressure applications
- Features virtually identical chemical inertness when compared with PTFE
- Some sizes available in multiple, translucent colors for easy flow path identification

Inside Dia.	Length	Pressure	Color	Mfr. No.	Cat. No.	Each
0.25mm	3m	1000-3000psi	Blue	1526B	**05-701-186**	27.20
0.25mm	6m	3000psi	Natural	1527	**05-701-48**	53.82
0.25mm	15m	3000psi	Natural	1527L	**05-701-175**	135.48
0.50mm	3m	1000-3000psi	Natural	1549	**05-701-32**	29.35
0.50mm	3m	1000-3000psi	Orange	1549OR	**05-701-189**	23.27
0.50mm	6m	2000psi	Natural	1548	**05-701-31**	47.36
0.50mm	15m	2000psi	Natural	1548L	**05-701-171**	120.67
0.50mm	30.5m	2000psi	Natural	1548XL	**05-701-170**	199.58
1.55mm	6m	500psi	Natural	1521	**05-701-42**	77.20
1.55mm	15m	500psi	Green	1521GL	**05-701-192**	185.60

Upchurch Scientific™ PFA Tubing

Offers excellent chemical resistance, lower gas permeability, smoother surface texture, higher continuous service temperature and superior polymer purity

- Available in three forms: PFA, High Purity PFA and High Purity PLUS PFA
- ODs ranging from 360µm to 1/4"; IDs ranging from 50 µm to 3/16"
- Offers higher purity and enhanced translucence when compared with other fluoropolymer tubes

Inside Dia.	Outside Dia.	Pressure	Length	Mfr. No.	Cat. No.	Each
0.28-.50mm	1.57mm	2000psi	6m	1512	**05-701-220**	52.28
0.28-.50mm	1.57mm	2000psi	15m	1512L	**05-701-221**	137.10
0.51-.75mm	1.57mm	1000psi	3m	1513	**05-701-222**	26.38
0.51-.75mm	1.57mm	1000psi	6m	1514	**05-701-223**	51.46
0.51-.75mm	1.57mm	1000psi	15m	1514L	**05-701-224**	133.89
1.4-1.6mm	3.18mm	500psi	3m	1508	**05-701-214**	45.55
1.4-1.6mm	3.18mm	500psi	6m	1509	**05-701-215**	91.24
1.4-1.6mm	3.18mm	500psi	15m	1509L	**05-701-216**	237.00

Upchurch Scientific™ Micro-Metering and Micro-Splitter Valves

Offer the ability to more finely control fluid flow rates

Material	Pressure (psi)	Volume †	Components	Mfr. No.	Cat. No.	Each
Micro-Metering Valves						
Multiple/ Other	800	7.7µL Internal	P-200, P-235	P 445	**05-700-360**	62.10
Multiple/ Other	800	7.2µL Internal	F-120 Fingertights	P 446	**05-700-361**	70.80
Multiple/ Other	800	7.7µL Internal	P-300, P-335	P-447	**05-701-389**	62.30
Micro-Splitter Valves						
PEEK™	800	4.1µL Fully Open	P-200, P-235 fittings	P 450	**05-700-383**	75.80
PEEK	800	2.8µL Fully Open	F-120 Fingertights	P 451	**05-700-384**	78.80
Multiple/ Other	4000	2.8µL Fully Open	F-120 Fingertights	P-460S	**05-701-401**	156.30

† The maximum internal volumes listed in the chart are with the valve fully open.

Upchurch Scientific™ Back Pressure Regulators and Accessories

Placing back pressure regulator (usually 500 - 1000 psi) between pump and injector can enhance pump's performance

Description	Mfr. No.	Cat. No.	Each
Cartridge; Pressure: 40psi; Volume: 125µL swept	P 761	**05-704-210**	79.20
Cartridge; Pressure: 75psi; Volume: 125µL swept	P 762	**05-704-211**	79.30
Cartridge; Pressure: 100psi; Volume: 125µL swept	P 763	**05-704-212**	79.30
Cartridge; Pressure: 250psi; Volume: 95µL swept	P 764	**05-704-213**	79.20
Cartridge; Pressure: 500psi; Volume: 89µL swept	P 765	**05-704-214**	81.10
Assembly; PEEK™; With P-761 cartridge; Pressure: 40psi	P 785	**05-704-215**	117.80
Assembly; PEEK; With P-762 cartridge; Pressure: 75psi	P 786	**05-704-216**	117.80
Assembly; PEEK; With P-763 cartridge; Pressure: 100psi	P 787	**05-704-217**	117.80
Assembly; PEEK; With P-764 cartridge; Pressure: 250psi	P 788	**05-704-218**	117.80
Assembly; PEEK; With P-765 cartridge; Pressure: 500psi	P 789	**05-704-219**	117.80
Cartridge Holder; Black; Thread port configuration: 1/4 to 28 flat bottom	P-465	**05-701-361**	77.90
Assembly; PEEK; Pressure: 5psi	P-790	**05-704-237**	117.10
Assembly; PEEK; Pressure: 20psi	P-791	**05-704-238**	117.80
Assembly; Stainless steel; With P-761 cartridge; Pressure: 40psi	U 605	**05-704-220**	141.90
Assembly; Stainless steel; With P-763 cartridge; Pressure: 100psi	U 607	**05-704-222**	126.80
Assembly; Stainless steel; With P-765 cartridge; Pressure: 500psi	U 609	**05-704-224**	152.90
Cartridge Holder, High pressure; For 1/16" OD tubing	U-469	**05-704-179**	112.70
Cartridge; Pressure: 750psi; Volume: 87µL swept	P-795	**05-701-351**	81.10
Cartridge; Pressure: 1000psi; Volume: 83µL swept	P-796	**05-701-352**	81.10

Needles and Accessories

Thermo Scientific™ National™ Target™ Precision GasTight Syringe Replacement Needles

Suitable for liquid or gas samples

Capacity	Gauge	Length	Point Style	Mfr. No.	Cat. No.	Pack of 3
10µL	26s	42mm	90° Blunt End	NS834407	**03-378-193**	24.20
10µL	26s	51mm	10µL; Bevel-shaped	NS832401	**03-377-280**	21.55
25 to 100µL	22s	51mm	90° Blunt End	NS831014	**03-378-194**	27.65
25 to 100µL	22s	51mm	Bevel-shaped	NS831013	**03-378-196**	35.00

Hamilton™ Company Inert Luer Syringe Gas Sampling Valve

Inert gas sampling valve features a lever-actuated on/off valve for storing and transporting samples in any GASTIGHT TLL syringe

Mfr. No.	Cat. No.	Each
86580	**13-684-116B**	93.30

Air-Tite™ Premium Hypodermic Needles for Lab/Vet Use

Sterile, disposable needles for laboratory and veterinary use

Gauge	O.D.	Length	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
22	0.0285"	3" (7.6cm)	N16112	**14-817-101**	100/61.70	526.00
22	0.0285"	4" (10.2cm)	N163	**14-817-102**	100/53.80	917.00
18	0.0505"	3" (7.6cm)	N165	**14-817-100**	100/36.00	305.07
16	0.0655"	1½" (3.8cm)	N183	**14-817-104**	100/15.32	126.80
16	0.0655"	3" (7.6cm)	N223	**14-817-103**	100/45.80	382.72
16	0.0655"	5" (12.7cm)	N224	**14-817-105**	25/50.70	2070.00

Hamilton Company 1700 Series Gastight™ Syringe Replacement Plungers

For Hamilton 1700 Series Gastight syringes ranging in volume from 10 - 500µL

Syringe Model No.	Syringe Type	Mfr. No.	Cat. No.	Each
1701	10microL (LT-N-RN)	13205	**14-819-202**	28.20
1702	25uL (TLLX,DX,CX)	13269	**14-819-297**	22.81
	25ul (LT,N,RN,C)	1122-01	**14-819-290**	29.05
1705	50uL (TLLX,DX,CX)	1117-01	**14-819-286**	19.81
	50uL (N,RN,TLL,C)	1162-01	**14-819-293**	29.05
1710	100ul (LT,N,RN,TLL,C)	1162-02	**14-819-294**	29.05
1725	250uL (TLLX,DX,CX)	1117-03	**14-819-288**	43.50
	250uL (LT,N,RN,TLL,C)	1162-03	**14-819-295**	29.05
1750	500uL (LTN,RN,TLL,C)	1169-01	**14-819-296**	29.05

Hamilton™ Company 1000 Series Gastight™ Syringe Replacement Plungers

For Hamilton 1000 Series Gastight syringes ranging in volume from 1 to 2mL

Syringe Model No.	Syringe Type	Mfr. No.	Cat. No.	Each
1001	1mL (LT, LTN, RN, TLL, C)	1359-01	**14-819-298**	28.20
1002	2.5mL (LT, LTN, RN, TLL, C)	1360-01	**14-819-299**	30.05

SGE™ Replacement Plungers

For SGE replaceable-plunger syringes listed. For additional replacements, contact your Fisher Scientific Customer Service Representative.

Capacity	For use with Syringe Models:	Mfr. No.	Cat. No.	Pack of
5µL	SG-001955, SG-001957	031218	**SG-031807**	1/54.30
10µL	SG-002250, SG-002252, SG-002313	031807	**SG-031811**	2/54.30
10µL	SG-002897	031808	**SG-031803**	1/31.31
10µL	SG-002812, SG-002826, SG-002827	031809	**SG-031808**	1/58.90
10µL	SG-002817, SG-002829	031810	**SG-031809**	2/60.60
10µL	SG-002924, SG-002926	031811	**SG-031218**	1/52.40
25µL	SG-003200, SG-003250, SG-003312	031815	**SG-031815**	1/37.35
25µL	SG-003987, SG-003988	031817	**SG-031817**	1/52.40
100µL	SG-005200, SG-005229, SG-005230, SG-005236, SG-005250, SG-005279, SG-005312	031825	**SG031825**	1/38.60
100µL	SG-005333	031826	**SG-031826**	1/39.90

SGE™ Replacement Needles for 10µL Syringes

Made of Stainless steel

Gauge Number	Length	Needle Point	Mfr. No.	Cat. No.	Pack of
26	42mm	Cone	037745	**SG-037745**	2/39.40
26	50mm	Bevel point	037110	**SG-037110**	5/45.57
26	50mm	Cone	037010	**SG-037010**	2/40.65
26	50mm	Side-hole dome tip	037410	**SG-037410**	2/34.95
26	115mm	Cone	037060	**SG-037060**	1/34.20
23	42mm	Cone	037747	**SG-037747**	2/40.20
25	53mm	Side hole	037777	**SG-037777**	1/51.60

SGE™ Replacement Needles for 25-500µL Syringes

Length	Gauge Number	Tip	Mfr. No.	Cat. No.	Pack of
20 to 500µL Syringe Capacity					
50mm	25	Side Hole Dome	038410	**SG-038410**	2/81.90
50mm	23	Bevel	038111	**SG-038111**	5/56.33
50mm	25	Cone	038010	**SG-038010**	2/30.85
50mm	25	Dome	038510	**SG-038510**	2/37.00
51mm	22	LC	038250	**SG-038250**	5/45.57
70mm	25	Bevel	038130	**SG038130**	1/56.84
70mm	25	Cone	038030	**SG-038030**	2/37.30
115mm	25	Bevel	038160	**SG-038160**	5/56.84
25 to 500µL Syringe Capacity					
50mm	25	Bevel	038110	**SG-038110**	5/45.57
180mm	23	Cone	038038	**03-350-259**	2/31.47
180mm	23	Bevel	038138	**03-350-254**	2/31.00

Special Application

Hamilton™ Company 1700 and 1000 Series Gastight™ SampleLock™ Syringes

Hamilton SampleLock syringes allow you to collect, store, transport and analyze liquid or gaseous samples without the danger of evaporative loss or environmental contamination.

Model	Volume	Needle Gauge	Mfr. No.	Cat. No.	Each
1705SL	50µL	22s	80956	**14-815-562**	118.00
1710SL	100µL	22s	81056	**14-815-563**	122.60
1725SL	250µL	22s	81156	**14-815-564**	147.10
1750SL	500µL	22	81256	**14-815-565**	144.80
1001SL	1mL	22	81356	**14-815-566**	183.30
1002SL	2.5mL	22	81456	**14-815-567**	215.50
1005SL	5mL	22	81556	**14-815-568**	212.00

Syringe Filters

Thermo Scientific™ Target2™ PTFE Syringe Filters

Strong, hydrophobic membrane is resistant to nearly all solvents, acids and bases

Outside Dia.	Pore Size	Prefilter	Mfr. No.	Cat. No.	Pack of
4mm	0.45µm	No	F2504-3	**03-391-4C**	100/164.00
4mm	0.2µm	No	F2504-4	**03-391-4E**	100/164.00
17mm	0.45µm	No	F2513-3	**03-391-3C**	100/195.60
17mm	0.2µm	No	F2513-4	**03-377-154**	100/196.50
30mm	0.45µm	No	F2500-3	**03-391-1C**	100/254.50
30mm	0.45µm	No	F2500-3BP	**F25003BP**	1000/1370.00

Thermo Scientific™ Titan3™ PVDF Syringe Filters

Perfect for general biological filtration and filtration of samples where high protein recovery is desired

Outside Dia.	Pore Size	Mfr. No.	Cat. No.	Pack of 100
17mm	0.2µm	42213-PV	**14-823-285**	333.00
17mm	0.45µm	44513-PV	**14-823-508**	298.50
30mm	0.45µm	44525-PV	**14-823-301**[†]	254.50

[†] *With pre-filter*

Autosampler

4mL

Thermo Scientific™ National™ Vial Septa

For 4mL screw thread vials

Description	Comment	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
White Virgin PTFE	Not re-sealable, single use	C4015-10	**03-340-10D**	----	59.50
Ivory PTFE/Red Rubber	For general chromatography	C4015-30	**03-377-105**	29.30	242.00
Red PTFE/White Silicone/Red PTFE	For use with aggressive solvents	C4015-40	**03-377-107**	50.70	419.50
Red PTFE/White Silicone	Soft durometer, for thin gauge needles	C4015-45	**03-377-109**	34.46	284.57
Red PTFE/White Silicone	Most popular PTFE/Silicone product	C4015-60	**03-340-10G**	34.75	288.00
Ivory PTFE/White Silicone	Same as Kimble™ 73818T-13	C4015-61	**03-378-379**	----	278.50
Blue PTFE/White Silicone — Pre-slit	Single slit septum	C4015-55	**03-377-112**	51.20	423.50

Thermo Scientific™ National™ Assembled Screw Caps with Inserted Septa for 4mL Vials

Designed to be used with any 13mm septa

Cap	Cap Color	Septa	Mfr. No.	Cat. No.	Pack of	Case of
Polypropylene Open Top Cap	Black	Ivory PTFE/Red Rubber	C4015-30A	**03-377-106**	100/47.15	10 Pk./390.00
Polypropylene Open Top Cap	Black	Red PTFE/White Silicone/Red PTFE	C4015-40A	**03-377-108**	100/66.10	10 Pk./553.00
Polypropylene Open Top Cap	White	Red PTFE/White Silicone, 0.045', Soft	C4015-45W	**03-377-110**	100/58.10	10 Pk./485.50
Polypropylene Open Top Cap	Black	Blue PTFE/White Silicone — Pre-slit	C4015-55BLK	**03-376-501**	100/64.00	----
Polypropylene Open Top Cap	White	Blue PTFE/White Silicone — Pre-slit	C4015-55W	**03-377-430**	100/58.27	10 Pk./480.74

Thermo Scientific™ National™ Empty Caps (without septum) for 4mL Screw Thread Vials

- Open-top
- 13-425 GPI Thread

Color	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
Polypropylene Open-Top Cap				
Black	C4015-1A	**03-375-25A**	9.65	73.50
White	C4015-1W	**03-375-25B**	----	92.00
Blue	C4015-97B	**03-378-384**	----	69.80
Green	C4015-97G	**03-378-385**	----	68.70
Red	C4015-97R	**03-378-386**	----	69.70
Yellow	C4015-97Y	**03-378-387**	----	69.70
Phenolic Open Top Cap				
Black	C4015-66	**03-378-315**	----	109.40

Fisherbrand® 4mL Autosampler Vials

Fully compatible with Waters WISP™ and Shimadzu™ autosamplers

- 13-425 screw-top vials are made of Type 1, borosilicate glass and measure 15 × 45mm
- Black closures are preassembled with a red and white PTFE/Silicone septa (0.075") and 13-425 GPI thread
- Convenience kit includes 100 vials and 100 caps with septa

Description	Cat. No.	Pack of 100
Vials		
Clear	**03-391-19**	22.74
Amber	**03-391-37**	27.45
13-425 Threaded Black Cap w/Septa		
PTFE/Silicone Septa	**03-391-21**	53.20
Convenience Kit		
Clear Vials w/Black Caps and PTFE/Silicone Septa	**03-391-22**	70.30

Crimp Top

Wheaton™ 12 × 32mm Polypropylene Vials with Limited Volume Insert

- 0.30mL volume
- Offer good chemical resistance
- Conical interior eliminates time-consuming assembly of vials and limited volume inserts

Closure	Closure Size	Mfr. No.	Cat. No.	Case of 1000
Screw Top	8-425mm	225185	**03-336-2**	276.00
Crimp Top	11mm	225180	**03-336-1**	257.94

Wheaton™ 12 × 32mm Glass/ Plastic Vials with 0.1mL Limited Volume Insert

Limited volume, glass/plastic vials

Closure	Closure Size	Mfr. No.	Cat. No.	Case of 100
Clear				
Screw Top	8-425mm	225195	**03-336-3**	285.00
Snap/Crimp	11mm	225190	**03-336-7**	246.50
Amber				
Screw Top	8-425mm	225205	**22-293-668**	315.50
Snap/Crimp	11mm	225200	**03-343-10**	310.00

Thermo Scientific™ National™ Standard Opening Crimp-Top Vial Kits

2mL, 12 × 32mm, Crimp-Top Vial Bulk Kits

Description	Mfr. No.	Cat. No.	Pack of 500	Case of 1000
Clear Glass	C4012-88	03-375-10A	206.00	371.00
Amber Glass	C4012-88A	03-375-10B	401.00	----

Thermo Scientific™ National™ Target™ Snap Cap Wide-Opening Vials

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 20 Pack
2mL Clear Vial	C4011-5	**03-395C**	24.48	403.23
2mL Clear I-D Vial	C4011-5W	**03-375-27A**	27.35	451.00
2mL Amber I-D Vial	C4011-6W	**03-375-27B**	28.10	488.50
1.5mL Clear High Recovery MicroVials	C4011-4	**03-377-76**	161.20	----
Target LoVial™, 2mL Amber Glass Vial	C4011-6	**03-395D**	26.62	438.27
Micro-V™ Clear Glass Snap-It™ Microsampling Vial, 15µL Reservoir	C4011-V5	**03-396-75**	112.04	----
Micro-V Amber Glass Snap-It Microsampling Vial, 15µL Reservoir	C4011-V6	**03-376-459**	110.28	----

Thermo Scientific™ National™ Limited Volume Wide Opening Plastic Crimp Top Vials

Description	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
450µL Virgin Polypropylene MicroVial	C4011-13	**03-377-299**	100/29.30	237.00
600µL Virgin Polypropylene MicroVial	C4011-16	**03-376-471**	100/23.90	----
800µL Virgin Polypropylene MicroVial	C4011-11	**22-045618**	100/30.75	254.50
850µL Virgin Polypropylene AP-2000 MaxVial	C4011-15	**03-397-61**	1000/296.50	----
1mL Virgin Polypropylene Flat Bottom Vial	C4011-14	**03-375-3N**	100/30.75	254.50
1mL TPX High Recovery Vial	C4011-24	**03-375-9C**	1000/482.50	----

Thermo Scientific™ National™ Snap-It™ Closures for 12 × 32 Crimp/Snap Vials

Allow quick, easy application and removal from Target™ Snap-It vials

Description	Septa	Color Closure	Mfr. No.	Cat. No.	Price
Natural rubber septa, slightly resealable	Clear PTFE/Red Rubber	Green	C4011-51G	**03-396C**	Pk. of 100/31.45
Natural rubber septa, slightly resealable	Clear PTFE/Red Rubber	Red	C4011-51R	**03-396D**	Pk. of 100/30.44
Natural rubber septa, slightly resealable	Clear PTFE/Red Rubber	Black	C4011-51BLK	**03-376-452**	Pk. of 100/32.25
For aggressive solvents	Red PTFE/White Silicone/Red PTFE	Green	C4011-53G	**03-396N**	Cs. of 1000/455.00
For aggressive solvents	Red PTFE/White Silicone/Red PTFE	Red	C4011-53R	**03-396P**	Pk. of 100/51.60
Highly resealable, high purity septum	Red PTFE/White Silicone	Red	C4011-54R	**03-396V**	Pk. of 100/34.55
Highly resealable, high purity septum	Red PTFE/White Silicone	Black	C4011-54BLK	**03-376-401**	Pk. of 100/36.15
Reduces coring, needle damage, allows venting	Blue PTFE/White Silicone — Pre-slit	Green	C4011-55G	**22-045850**	Cs. of 1000/507.50
Reduces coring, needle damage, allows venting	Blue PTFE/White Silicone — Pre-slit	Red	C4011-55R	**03-396AA**	Pk. of 100/54.10
High temperature, not resealable	Viton™ Elastomer	Clear	C4011-56	**03-377-77**	Pk. of 100/67.20
Single use, for thin gauge needles	Integral PE — Star Slit	Clear	C4011-57	**03-397-20**	Cs. of 1000/77.90
Single use, double snap integral membrane closure	Integral PE	Natural	C4011-50	**03-375-24E**	Pk. of 100/11.48
Single use, double snap integral membrane closure	Integral PE	Blue	C4011-50B	**03-375-24F**	Pk. of 100/11.48
Single use, double snap integral membrane closure	Integral PE	Green	C4011-50G	**03-375-24G**	Pk. of 100/11.37
Single use, double snap integral membrane closure	Integral PE	Red	C4011-50R	**03-375-24H**	Pk. of 100/11.48
Single use, double snap integral membrane closure	Integral PE	Yellow	C4011-50Y	**03-375-24J**	Pk. of 100/11.37

Thermo Scientific™ National™ Target™ LoVial™ Crimp Top Vials — Wide Opening 2mL, 12 × 32mm

With wide opening for easy filling

- Fit most autosamplers that accommodate the 12 × 32mm vial format
- Borosilicate clear glass Type 1, Class A or 51A amber glass
- Uniformly flat bottom for security with inserts

Maximum Fill Volume	Description	Mfr. No.	Cat. No.	Pack of	Case of 20 Pk.
Target LoVial 2mL Vials					
1.8mL	Target LoVial, 2mL Clear Glass Vial	C4011-1	**03-375-3CC**	100/24.40	408.50
1.8mL	Target LoVial, 2mL Clear Glass I-D Vial	C4011-1W	**03-375-3R**	100/27.10	438.00
1.8mL	Target LoVial, 2mL Amber Glass I-D Vial	C4011-2W	**03-375-3S**	100/31.01	511.71
1.8mL	Target ColorBand 2mL Clear Glass Vial w/Blue Patch	C4011-1B	**03-375-3JJ**	100/29.30	485.00
1.8mL	Target ColorBand 2mL Clear Glass Vial w/Green Patch	C4011-1G	**03-375-3KK**	100/28.43	468.77
Microsampling Vial for Use with 11mm Aluminum Crimp Seals					
350µL	MacroVial 350µL Fused Insert Snap-It™ Vial, Clear Glass	C4011-LV1	**03-397-15**	100/110.20	----
350µL	MacroVial 350µL Fused Insert Vial, Clear Glass I-D	C4011-LV1W	**03-376-407**	100/111.30	----
250µL	MacroVial 250µL Fused Insert Snap-It Vial, Amber Glass	C4011-LV2	**03-397-16**	100/134.10	----
350µL	MacroVial 350µL Fused Insert Vial, Amber Glass I-D	C4011-LV2W	**03-376-457**	100/125.40	----
400µL	Solid Glass MicroVials™	C4011-10	**03-377-75**	12/94.57	----

Thermo Scientific™ National™ Unassembled Target™ LoVial™ Wide Opening Vial Kits

- Two-compartment benchtop storage tray
- Include matched quantities of vials and silver aluminum seals with prefitted septa

Vial	Seal with Septum	Mfr. No.	Cat. No.	Pack of	Case of 2 Pk.
Clear Glass	PTFE/Red Rubber	C4011-87	**03-375-4AA**	100/36.23	----
Amber Glass	PTFE/Red Rubber	C4011-87A	**03-376-208**	100/42.51	----
Clear Glass I-D™	PTFE/Red Rubber	C4011-87W	**03-378-392**	100/43.10	----
Amber Glass I-D	PTFE/Red Rubber	C4011-87AW	**03-378-393**	100/51.02	----
Clear Glass I-D	Seal 2000	C4011-89W	**03-378-351**	100/36.04	----
Clear Glass	PTFE/Silicone	C4011-92	**03-375-45A**	100/59.54	----
Clear Glass I-D	PTFE/Silicone	C4011-92W	**03-375-45B**	100/64.64	----
Amber Glass I-D	PTFE/Silicone	C4011-92AW	**03-375-45D**	100/72.27	----
Clear Glass	PTFE/Silicone/PTFE	C4011-94	**03-375-46A**	100/67.37	----
Clear Glass I-D	PTFE/Silicone/PTFE	C4011-94W	**03-375-46B**	100/69.86	----

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

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Fisherbrand® Standard Opening 2mL Crimp-Top Vials

In clear or amber

Description	Cat. No.	Pack of 100
Vials		
Clear	**03-391-2**	18.15
Amber	**03-391-38**	21.65
Convenience Kit		
Clear Vials w/Seals and PTFE/Red Rubber Septa	**03-391-4**	31.00

Fisherbrand® Crimp-Top 2mL Autosampler Vials

2mL, 12 × 32mm wide-opening crimp-top vials made of borosilicate glass

Description	Cat. No.	Pack of 100
Vials		
Clear	**03-391-5**	18.16
Amber I-D	**03-391-6**	23.10
11mm Aluminum Seals		
PTFE/Red Rubber Septa	**03-391-3**	12.60
PTFE/Silicone/PTFE Septa	**03-391-34**	38.70
PTFE/Silicone Septa	**03-391-33**	32.35
Convenience Kit		
Clear Vials w/Seals and PTFE/Red Rubber Septa	**033917**	32.50

Fisherbrand® Wide-Opening 2mL Snap Cap Glass Vials

Easier to fill and provide larger target area for autosampler needle

Description	Capacity	Cat. No.	Pack of 100
Clear, plain	1.8mL	03-391-39	26.15
Clear, with marking area	1.8mL	03-391-40	24.20
Amber, with marking area	1.8mL	03-391-41	28.23

Fisherbrand® Pre-assembled Snap Caps with Septa

Easy to apply and remove; eliminate need for crimping or decapping tools

Description	Cat. No.	Pack of 100
With solid septa	**03-391-42**	29.95
With pre-slit septa	**03-391-43**	47.13

Thermo Scientific™ National™ Target™ Kim-Snap™ Closures

Preassembled with septa for use with Target Snap/Crimp LoVial™ Vials

Cap Color	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
PTFE/Red Rubber				
Blue	C4011-51B	**03-396B**	30.60	249.76
Yellow	C4011-51Y	**03-396E**	31.35	259.50
PTFE/Silicone				
Blue	C4011-54B	**03-396S**	34.42	292.49
Green	C4011-54G	**03-396T**	35.55	293.50
Yellow	C4011-54Y	**03-396W**	35.55	293.50
Black	C4010-1296VO	**03-397-13**	----	555.00
White	C4011-64	**03-397-23**	48.83	486.30
PTFE/Silicone/PTFE				
Clear	C4011-53	**03-396L**	51.50	427.50
Blue	C4011-53B	**03-396M**	----	456.88
Yellow	C4011-53Y	**03-396Q**	51.30	425.00
PTFE				
Blue	C4011-52B	**03-396G**	27.75	217.50
Green	C4011-52G	**03-396H**	27.80	220.50
Red	C4011-52R	**03-396J**	26.98	212.62
Yellow	C4011-52Y	**03-396K**	26.98	222.29
Pre-Slit Blue PTFE/Silicone				
Clear	C4011-55	**03-396X**	52.29	440.00
Blue	C4011-55B	**03-396Y**	52.18	438.98
Yellow	C4011-55Y	**03-396AB**	53.90	459.50
Black	C4011-55BLK	**03-397-14**	55.00	469.00
Star Design Pre-Slit Red PTFE/Silicone				
Clear	C4011-59	**03-396-67**	57.20	478.00

Wheaton™ LVI™ Vials with ABC Screw Thread

Similar to Wheaton LVI Vials with Crimp Top, except feature a 9mm ABC screw-thread finish that can be used only with ABC caps

Natural Color Caps Liner Type	Mfr. No.	Cat. No.	Pack of 100
Clear Vials			
PTFE	W225326-06	**03-410-438**	210.00
PTFE/Red Rubber	W225326-01	**03-410-422**	203.50
Red PTFE/White Silicone	W225326-02	**03-410-428**	222.50
PTFE/Silicone/PTFE	W225326-03	**03-410-434**	232.50
Amber Vials			
PTFE	W225328-06	**03-410-458**	221.00
White PTFE/Blue Silicone	W225328-04	**03-410-456**	233.50
PTFE/Silicone/PTFE	W225328-03	**03-410-454**	243.00

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Prices subject to change.

Thermo Scientific™ National™ Aluminum Crimp Seals with Prefitted Septa for 12 × 32mm Vials

Seal Color	Septum Material	Features	Mfr. No.	Cat. No.	Pack of 100	Case of
Silver	Clear PTFE/Red Rubber	Standard GC Septum	C4011-1AP	**03-375-24**	14.68	----
Silver	Clear PTFE/Red Rubber	Standard GC septum	C4011-1A	**06-406-19B**	----	1000/138.20
Blue	Clear PTFE/Red Rubber	Standard GC septum	C4011-98B	**06-406-19H**	25.70	10 Pk./212.06
Silver	Virgin PTFE	High Temperature, Not Resealable	C4011-6A	**03-397-24**	----	1000/128.70
Silver	Polypropylene	For corrosive solvents	C4011-3A	**06-406-19T**	----	1000 Ea./247.10
Silver	Red PTFE/White Silicone	High Purity Septum	C4011-4A	**06-406-19D**	41.30	10 Pk./370.50
Blue	Red PTFE/White Silicone	High Purity Septum	C4011-4B	**03-376-408**	34.82	----
Silver	Red PTFE/White Silicone/Red PTFE	For Aggressive Solvents, Silver	C4011-2A	**06-406-19C**	52.86	10 Pk./436.26
Silver	Black Viton Elastomer	ECD, High chemical resistance	C4011-5A	**03-378-343**	65.47	10 Pk./540.01
Silver	Seal 2000 PTFE/Red Rubber	High Purity GC Septum	C4011-7A	**03-377-91**	17.95	10 Pk./147.50
Blue	Seal 2000 PTFE/Red Rubber	High Purity GC septum	C4011-7B	**03-378-345**	25.44	10 Pk./210.03
Silver, Blue, Green, Red, Yellow	Seal 2000 PTFE/Red Rubber	Kombo Kit; 200 of each color	C4011-7K	**03-378-347**	----	1000/239.00
Silver	Gray Chlorobutyl	Resealable, Intermediate Purity	C4011-37	**03-378-382**	----	1000/472.80

Thermo Scientific™ SUN-SRi™ 12 × 32mm Standard Opening Crimp Vials

Standard graduated write-on patch for easy filling and identification

Description	Mfr. No.	Cat. No.	Pack of
Clear I-D	200 000	**14-823-128**	100/21.90
Clear I-D	200 001	**14-823-129**	2000/381.50
Amber I-D	200 002	**22-313-375**	100/27.35

Thermo Scientific™ National™ Crimp-Top Vials

Description	Max. Fill Volume	Mfr. No.	Cat. No.	Pack of 100	Case of 20 Pk.
2mL Clear Glass	1.8mL	C4012-1	**06-406-19E**	23.20	390.52
2mL Clear Glass I-D	1.8mL	C4012-1W	**03-377-999**	28.18	464.60
2mL Amber Glass	1.8mL	C4012-2	**06-406-19M**	29.12	479.71
2mL Amber Glass I-D	1.8mL	C4012-2W	**03-378-342**	29.75	492.00
150µL Clear Solid Glass Microvial	150µL	C4012-10	**03-375-9A**	----	89.89
Glastic Glass Insert/ TPX Vial	150µL	C4012-15	**03-375-9D**	273.00	----

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Thermo Scientific™ SUN-SRi™ 11mm Aluminum Seals

For StepVials™, wide opening and standard opening 12×32mm aluminum seal vials

Cap Color	Mfr. No.	Cat. No.	Pack of
PTFE/Red Rubber Septa			
Silver	200 104	14-823-143	100/15.56
	200 100	22-314-855	1000/118.40
Blue	200 122	14-823-148	100/18.18
	200 118	22-021-963	1000/174.00
Green	200 128	14-823-150	100/19.58
	200 124	14-823-149	1000/174.00
Red	200 134	14-823-152	100/18.18
	200 130	14-823-151	1000/174.00
Yellow	200 140	14-823-154	100/18.18
	200 136	22-021-967	1000/174.00
PTFE/Silicone Septa for GC			
Silver	501 311	14-823-378	100/22.70
	501 310	14-823-377	1000/225.50
PTFE/Silicone Septa			
Silver	200 158	22-021-862	100/32.90
	200 154	22-021-861	1000/284.00
PTFE/Silicone/PTFE Septa			
Silver	200 152	22-021-860	100/50.40
	200 148	14-823-155	1000/384.50
Polypropylene Septa			
Silver	200 178	14-823-160	100/22.45
PTFE Septa			
Silver	502 070	14-823-416	1000/118.20

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Thermo Scientific™ SUN-SRi™ Glass Microsampling Vials

Good for use when working with small samples or samples that must be evaporated/reconstituted without using multiple vials

Description	Mfr. No.	Cat. No.	Pack of
SunSpot™ MicroVial, Clear, 1.5mL			
Crimp	500 092	**14-823-310**	100/161.30
Micro+™ Vial, Clear, Fused Insert, 900µL			
Crimp	502 031	**14-823-412**	500/646.50
MacroVial™, Fused Insert, Snap/Crimp Cap, 300µL			
Clear	500 854	**14-823-359**	100/107.50
Amber	500 855	**14-823-360**	100/113.30
Solid Vial, Clear, 100µL			
Snap/Crimp	200 032	**14-823-133**	12/107.20

Thermo Scientific™ SUN-SRi™ StepVial System™ Kits

2mL, 12 × 32mm, Snap/Crimp Top Vial Convenience Kits in Storage Trays with standard graduated I-D™ patch and your choice of preassembled seals with septa

Vial Type	Septa Type	Mfr. No.	Cat. No.	Pack of 100
Clear I-D	Orange Seal w/PTFE/Red Rubber	501 327	**14-823-383**	54.60
Amber I-D	Orange Seal w/PTFE/Red Rubber	501 329	**14-823-385**	52.90
Clear I-D	Orange Seal w/PTFE/Silicone	500 726	**14-823-352**	56.00
Clear I-D	Orange Seal w/PTFE/ Silicone/PTFE	501 326	**14-823-382**	39.56

Thermo Scientific™ SUN-SRi™ StepVial System™ Vials

2mL, 12 × 32mm Crimp/Snap Ring Vials

Description	Mfr. No.	Cat. No.	Pack of 100
Clear I-D	501 300	**14-823-370**	23.85
Amber I-D	501 302	**14-823-372**	28.40

Thermo Scientific™ SUN-SRi™ 11mm Snap Caps

Easy to apply caps eliminate crimping and decrimping of closures

Septa	Mfr. No.	Cat. No.	Pack of
Clear PTFE/Red Rubber	501 312	**14-823-379**	100/29.10
PTFE/Silicone	501 313	**14-823-380**	100/36.40
PTFE/Silicone/PTFE	501 385	**14-823-399**	1000/528.50
0.010" PTFE	501 319	**14-823-381**	100/25.15
PTFE	501 390	**14-823-480**	1000/252.50

Thermo Scientific™ SUN-SRi™ Crimp Caps

Tin plate caps or two-part composite tin plate and aluminum cap with or without septum

Description	Septa	Cat. No.	Pack of
Crimp Cap	----	**22-034-087**	1000/107.00
Blue Aluminum Two-Part Crimp Cap	----	**22-030-213**	500/60.90
Silver Aluminum Two-Part Crimp Cap	----	**22-030-214**	500/60.00
Red Aluminum Two-Part Crimp Cap	----	**22-030-215**	1000/138.74
Blue Aluminum Two-Part Crimp Cap	PTFE/Silicone	**22-030-207**	500/564.50
Silver Aluminum Two-Part Crimp Cap	PTFE/Silicone	**22-030-208**	500/471.00
Red Aluminum Two-Part Crimp Cap	PTFE/Silicone	**22-030-209**	500/564.50

Thermo Scientific™ SUN-SRi™ 8-425 Standard Opening 12 × 32mm Vials

Excellent for small samples or samples that must be evaporated and reconstituted without having to use multiple sample vials

Capacity	Overall Color	Material	Mfr. No.	Cat. No.	Each
1.5mL	Clear	Glass	200 250	**14-823-165**	27.15
1.1mL	Clear	Glass	502 044	**14-823-415**	560.50
1.5mL	Clear	Glass	500 172	**14-823-321**	75.80
1.5mL	Amber	Glass	200 252	**22-313-377**	31.45
500µL	Natural	Polyproylene	500 124	**14-823-315**	28.00
400µL	Natural	Polyproylene	500 114	**14-823-313**	234.50
300µL	Natural	Polyproylene	200 264	**14-823-168**	234.50

Thermo Scientific™ SUN-SRi™ 8 × 40mm Shell Vials

Tear-away design of the polyethylene plug closure ensures penetration and ventilation while sampling

Capacity	Type	Height	Material	Neck	Mfr. No.	Cat. No.	Pack of
Clear							
800µL	Crimp vial	40mm	Polypropylene	8mm	500 765	**14-823-353**	250/53.10
1mL	Shell vial	40mm	Glass	8mm	500 602	**22-026-486**	250/39.15
1mL	Screw thread vial	40mm	Polypropylene	8mm	500 760	**10-800-163**	250/41.38
10mL	Shell vial	45mm	Glass	22.5mm	405 034	**22-033-498**	100/43.90
Amber							
5mL	Shell vial	40mm	Polypropylene	7mm	201 776	**14-823-227**	100/74.78

Head Space

Thermo Scientific™ National™ Headspace Vials

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
6mL, Flat Bottom	C4020-60	**03-397-55**	----	331.50
10mL, 10mL Flat Bottom Headspace Vial, Beveled Edge	C4020-10	**03-375-21C**	47.44	331.98
10mL, 10mL, Round Bottom, Beveled Edge	C4020-210	**03-377-120**	44.60	369.00
20mL, Flat Bottom	C4020-20	**03-377-119**	47.85	396.50
20mL, 20mL, Round Bottom Headspace Vial, Beveled Edge	C4020-2	**03-377-118**	48.30	400.00
27mL, Flat Bottom	C4020-27	**03-397-44**	----	665.50

Thermo Scientific™ National™ 20mm Septa for Headspace Vials

Septa for use with unlined 20mm crimp seals

Description	Temperature Range	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
Gray Butyl Stopper	-40 to +120°C	C4020-30	**03-375-22AA**	233.00	----
PTFE/Silicone	-60 to +125°C	C4020-32	**03-375-22B**	101.20	875.00
PTFE/Red Rubber Septa	-40 to +100°C	C4020-34	**03-375-22C**	85.90	706.50
Gray PTFE/Black Butyl	-40 to +125°C	C4020-36	**03-375-22D**	89.10	----
Assembled 20mm Seal and Septa	-40 to +125°C	C4020-36A	**03-375-22G**	125.40	1091.00

Thermo Scientific™ National™ Headspace 20mm Crimp Seals

Unlined seals for use with all headspace vials

Description	Mfr. No.	Cat. No.	Case of 1000
One-piece	C4020-3A	**03-375-23C**	102.20
Tear-off Seal	C4020-5A	**03-375-23D**	95.90
Pressure Relief Cap	C4020-6A	**03-377-124**	163.40

Thermo Scientific™ National™ Headspace 20mm Crimp Seals with Septa

20mm crimp seals with prefitted septa for headspace vials

Description	Septa	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Packs
Regular	Tan PTFE/White Silicone	C4020-32A	**03-375-22E**	106.80	929.50
Pressure Release†	Tan PTFE/White Silicone	C4020-32AP	**03-377-121**	85.80	743.00
Pressure Release†	Ivory PTFE/Red Rubber	C4020-34AP	**03-377-122**	100.10	866.50
Magnetic	Tan PTFE/White Silicone	C4020-38A	**03-397-70**	174.30	----
Regular	Clear PTFE/ Gray Butyl	C4020-39A	**03-397-48**	92.70	----
Magnetic Steel	Clear PTFE/ Gray Butyl	C4020-43A	**03-397-52**	107.80	----
Pressure Release	Clear PTFE/ Gray Butyl	C4020-43AP	**03-397-53**	101.70	----

† Packaged in glass

Thermo Scientific™ SUN-SRi™ Headspace Vials

Designed with a round bottom that is more easily handled by robotic arms

Description	O.D. x H	Mfr. No.	Cat. No.	Pack of
20mm Crimp-Top Vials				
10mL Clear, Round bottom	22 × 45mm	502 046	**14-823-530**	125/54.10
20mL Clear, Round bottom	22 × 75mm	500 550	**14823340**	100/45.10
20mL Clear, Square bottom	22.5 × 75mm	200 898	**14-824-220**	100/44.15
20mL Amber, Round bottom	22 × 75mm	502 554	**14-823-531**	125/81.90
18mm Screw-Top Vials				
10mL Clear, Round bottom	22 × 45mm	502 460	**14-823-532**	125/69.20
20mL Clear, Round bottom, without cap	22 × 75mm	502 459	**14-823-450**	100/35.10
20mL Clear, Round bottom	22 × 75mm	502 458	**14-823-533**	125/90.70

Inserts

Thermo Scientific™ National™ 6mm Inserts for Wide Opening Vials

Feature a conical base and graduation marks

Size	Mfr. No.	Cat. No.	Pack of 100
200µL	C4010-629P	**03-375-24AA**	34.35

Thermo Scientific™ SUN-SRi™ Step Vial System™ Inserts

Automatically seat at optimal height and center; no springs or supports needed

Description	Nominal Residual Volume	Mfr. No.	Cat. No.	Pack of 100
200µL Glass StepVial	2µL	501 304	**14-823-374**	115.80

Thermo Scientific™ National™ Inserts for Target™ LoVial™ Wide-Opening Vials

- Pulled point inserts are an economical choice for non-critical applications
- Nominal O.D. of 6mm to fit Target wide-opening vials

Description	Features	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
400µL MicroSert™, Glass Flat Bottom Insert	Open end has fill marking	C4011-631	**03-375-3B**	500/74.20	----
300µL Polyspring, Glass Conical Insert	Polyspring centers and cushions insert	C4010-630	**03-375-3A**	100/121.60	----
200µL Polyspring, Polypropylene Conical Insert	Precision-formed tip with Polyspring	C4010-630P	**03-375-18E**	100/55.50	463.50
300µL Polypropylene, Conical Base, Clear Vial, Graduation Marks	Polypropylene is preferred for some highly reactive compounds	C4010-629P	**03-375-24AA**	100/34.35	284.00
350µL Glass Conical Insert, Pulled Point	Precision-formed tip, rests on vial bottom	C4010-627L	**03-377-68**	100/77.40	607.50
350µL Glass Conical Insert, Precision Point	Insert is suspended in vial by top spring	C4010-629L	**03-377-69**	1000/735.80	----
150µL Glass Conical Insert with Top Spring	Insert is suspended from the rim of the vial	C4010-630TS	**03-378-383**	500/716.00	----

Thermo Scientific™ National™ Inserts for Standard-Opening Vials

- Pulled point inserts are an economical choice for non-critical applications

Description	Fill Volume	Residual Volume	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
250µL MicroSert™, Flat Bottom	200µL	12µL	C4012-465	**03-375-1D**	500/68.20	----
150µL Polyspring, Conical	175µL	<1µL	C4012-530	**03-375-1A**	100/73.80	----
200µL Conical	175µL	5µL	C4012-529L	**03-377-96**	100/55.60	464.50
200µL Top Spring Conical	175µL	4µL	C4013-529T	**03-378-321**	500/449.50	----
175µL Polyspring	125µL	3µL	C4012-530P	**03-378-341**	100/51.00	----
225µL Conical, Precision Point, Glass	200µL	<1µL	C4012-531L	**03-377-427**	100/72.70	629.00

Thermo Scientific™ National™ Inserts for 15 × 45mm 4mL Vials

- Have a nominal O.D. of 6 or 8mm to fit 15 × 45 4mL vials
- Deactivated inserts are NSC Silanized

Description	Features	Mfr. No.	Cat. No.	Pack of 10	Case of 10 Pk.
1mL MicroSert™, Glass Flat Bottom Insert	1mL MicroSert, Glass Flat Bottom Insert, Shell 0.75mL, Rests on Vial Bottom	C4015-843	**03-378-390**	26.80	219.00
700µL Polyspring Glass Conical Insert, Pulled Point	Straight-sided insert	C4015-638	**03-375-1C**	74.20	----
300µL Polyspring Polypropylene Conical Insert	Polyspring supports bottom of the insert	C4015-638P	**03-378-312**	55.50	----
500µL Polyspring Glass Conical Insert	Polyspring Insert, Flange at Insert Lip	C4015-641	**03-375-39A**	86.00	----
300µL Glass Conical Insert with Top Spring	Insert is suspended from rim of vial	C4015-639TS	**03-378-391**	149.57	----
350µL Glass Conical Insert, Pulled Point	Flanged lip, requires C4015-640 metal spring	C4015-643	**03-375-39C**	45.25	----
Metal spring for glass inserts and 4mL vial	Supports inserts lacking a bottom spring	C4015-640	**03-375-24X**	15.18	122.00

Screw Cap

Thermo Scientific™ National™ Target™ Unassembled Vial, Cap, and Septum Convenience Kits

- Two-compartment benchtop storage tray
- I-D™ vials feature write-on patch with graduations
- All items remain handy and dust-free

INCLUDES: 100 vials and 100 caps with pre-assembled septa

Material	Septa	Mfr. No.	Cat. No.	Price
Clear Glass	PTFE/Silicone	C4010-88	**03-375-15A**	100/76.80
Amber Glass	PTFE/Silicone	C4010-88A	**03-375-15D**	100/82.60
Clear Glass I-D	PTFE/Silicone	C4010-88W	**03-375-15G**	100/73.26
Clear Glass I-D	PTFE/Silicone/PTFE	C4010-89W	**03-376-414**	100/79.10
Amber Glass I-D	PTFE/Silicone/PTFE	C4010-89AW	**03-376-442**	100/66.30
Clear Glass	PTFE Unassembled	C4010-90	**03-375-15C**	100/48.95
Amber Glass	PTFE Unassembled	C4010-90A	**03-375-15F**	100/49.70
Clear Glass	PTFE/Silicone—Pre-slit	C4010-92	**03-378-04**	100/92.80
Clear Silanized	PTFE/Silicone—Pre-slit	C4010-S92	**03-376-402**	100/62.50
Clear Glass I-D	PTFE/Silicone—Star-slit	C4010-93W	**03-376-445**	100/92.10
Clear Glass	PTFE/Silicone	C4010-95	**03-377-70**	100/75.65

Thermo Scientific™ National™ Septa for 8-425 Screw Thread Caps

PTFE, PTFE/rubber, or PTFE/silicone to suit a variety of applications

Description	Comment	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
White Virgin PTFE	Not re-sealable, single use	C4013-10	**03-340-10A**	49.90	----
Ivory PTFE/Red Rubber	For general chromatography	C4013-30	**03-377-99**	19.02	156.50
Red PTFE/Clear Silicone	55mL for Hitachi™ autosamplers	C4013-55	**03-340-10F**	31.36	266.00
Red PTFE/White Silicone	For high sensitivity chromatography	C4013-60	**03-340-10C**	19.61	155.48
Red PTFE/White Silicone, Pre-slit	Single slit	C4013-60TW	**03-378-338**	390.91	----
Red PTFE/White Silicone/Red PTFE	For use with aggressive solvents	C4013-40	**03-340-10B**	38.46	317.80
Blue PTFE/White Silicone, Pre-slit	For fragile needles	C4013-32	**03-375-10K**	431.90	----
Tan PTFE/White Silicone	Kimble™ PTFE/Silicone septum	C4013-61	**03-376-469**	207.42	----

Thermo Scientific™ National™ Target™ DP™ Screw Thread Robovials — 2mL, 12 × 32mm

Convenience of a screw thread with the outer profile of a crimp vial for the broadest autosampler compatibility

Capacity	Description	Mfr. No.	Cat. No.	Pack of	Case of
1.8mL	2mL Clear Blue Band	C4000-1B	**03-340-257**	100/31.10	20 Pk./515.50
1.8mL	2mL Clear Green Band	C4000-1G	**03-340-258**	100/65.50	20 Pk./1290.00
1.8mL	2mL Clear Red Band	C4000-1R	**03-340-259**	100/30.05	20 Pk./494.48
1.8mL	2mL Clear Yellow Band	C4000-1Y	**03-340-260**	100/29.15	20 Pk./482.00
1.8mL	2mL Clear	C4000-1	**03-377A**	100/26.60	20 Pk./429.50
1.8mL	2mL Clear I-D, 1.8mL Max. Fill Volume	C4000-1W	**03-377B**	100/27.85	20 Pk./454.33
1.8mL	2mL Amber I-D, 1.8mL Max. Fill Volume	C4000-2W	**03-377D**	100/32.95	20 Pk./543.50
1.5mL	Clear High Recovery with 30µL Reservoir	C4000-9	**03-377K**	100/159.10	----
350µL	MacroVial™ 350µL Fused Insert Vial, Clear	C4000-LV1	**03-396-86**	100/121.50	----
350µL	MacroVial 350µL Fused Insert Vial, Clear I-D	C4000-LV1W	**03-396-74**	100/159.80	----

Thermo Scientific™ National™ Preassembled Target™ DP™ Kits

Vial	Cap Color	Mfr. No.	Cat. No.	Pack of 100
With PTFE/Red Rubber Septa				
Clear Glass	Blue	C4000-180	**03-377-9A**	57.20
Clear Glass I-D	Blue	C4000-180W	**03-377-9B**	59.90
Amber Glass I-D	Blue	C4000-182W	**03-377-9D**	64.70
With Pre-Slit PTFE/Red Rubber Septa				
Clear Glass I-D	Blue	C4000-183	**03-375-60F**	69.60
With PTFE/Silicone/PTFE Septa				
Amber Glass I-D	Blue	C4000-188W	**03-377-10D**	81.00
With PTFE/Silicone Septa				
Clear Glass	Blue	C4000-192	**03-377-11A**	65.30
Clear Glass I-D	Blue	C4000-192W	**03-377-11B**	66.40
Amber Glass I-D	Blue	C4000-194W	**03-377-11D**	71.90
With Pre-Slit PTFE/Silicone Septa				
Clear Glass I-D	Blue	C4000-195W	**03-375-60J**	85.10
Amber Glass I-D	Blue	C4000-196W	**03-375-60K**	90.30
Ivory PTFE/Red Rubber, Pre-Slit Septa				
Clear Glass I-D	Blue	C4000-183W	**03-376-415**	75.40
Amber Glass I-D	Blue	C4000-184W	**03-376-416**	49.20
Red PTFE/White Silicone/Red PTFE Septa				
Clear Glass I-D	Blue	C4000-186W	**03-377-10B**	75.50
Clear Glass I-D	Red	C4000-186WR	**03-375-1**	78.20
Amber Glass I-D	Red	C4000-188WR	**03-375-2**	83.10

Thermo Scientific™ National™ Screw Thread Caps with Bonded Septa

Cap	Septum	Mfr. No.	Cat. No.	Pack of 10	Case of 10 Pk.
8-425 Screw Thread Cap Black Polypropylene	Bonded Red PTFE/White Silicone, 0.005"	C4013-65A	**03-342-005**	48.45	401.00
10-425 Screw Thread Black Polypropylene	Bonded Red PTFE/White Silicone, 0.005"	C4010-68A	**03-342-006**	41.70	----
13-425 Screw Thread Black Polypropylene	Bonded Red PTFE/White Silicone, 0.005"	C4015-67A	**03-342-007**	55.60	----
8-425 Screw Thread Black Polypropylene	Bonded Preslit Red PTFE/White Silicone, 0.005"	C4013-69A	**03-342-008**	52.80	442.00
10-425 Screw Thread Black Polypropylene	Bonded Preslit Red PTFE/White Silicone, 0.005"	C4010-69A	**03-342-009**	44.55	----

Thermo Scientific™ National™ Target™ Wide-Opening Screw-Thread Vials

Wide neck vial is easy to fill

- 10-425 thread
- Borosilicate clear glass (Type 1, Class A) or 51A amber glass
- Uniformly flat bottom for security with inserts
- Graduated I-D™ patch measures 0.5, 1.0 and 1.5mL

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 20 Pk.
2mL Vials				
Clear Glass	C4010-1	**03-375-11B**	30.95	512.50
Clear Glass I-D	C4010-1W	**03-375-11BA**	32.56	536.13
Amber Glass	C4010-2	**03-375-11A**	36.15	597.50
Amber Glass I-D	C4010-2W	**03-375-11AA**	37.20	614.50
Microsampling Vials				
350µL Fused Insert Vial, Clear	C4010-LV1	**03-397-08**	145.10	----
350µL Fused Insert Vial, Amber	C4010-LV2	**03-397-09**	160.60	----
1.5mL Tapered with 150µL reservoir, Clear	C4010-V1	**03-376-400**	111.40	----

Thermo Scientific™ National™ Target™ 10mm Septa

For use with 10-425 threaded caps

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Packs
White Virgin PTFE	C4010-10	**03-375-12A**	53.40	----
Ivory PTFE/Red Rubber	C4010-30	**03-377-64**	25.70	212.00
Red PTFE/White Silicone, Soft	C4010-35	**03-375-12D**	33.48	268.88
Red PTFE/White Silicone	C4010-60	**03-375-12C**	28.72	223.68
Red PTFE/White Silicone, Star-slit	C4010-65	**03-397-06**	48.25	399.00
Red PTFE/White Silicone/Red PTFE	C4010-40	**03-375-12B**	44.20	346.00
Blue PTFE/White Silicone, Pre-slit	C4010-55	**03-377-66**	47.90	397.00

Thermo Scientific™ National™ Target™ Assembled Vial, Cap and Septum Kits

Include vials with pre-attached caps and septa, all packaged in convenient trays or polybags

Color	Material	Septa	Mfr. No.	Cat. No.	Price
Lt Blue	Clear Glass	Red PTFE/ White Silicone	C4010-17	**03-375-14A**	96.00
Lt Blue	Clear Glass	Red PTFE/ White Silicone/ Red PTFE	C4010-19	**03-375-14B**	106.71
Lt Blue	Clear Glass	White virgin PTFE	C4010-21	**03-375-14C**	74.90
Lt Blue	Amber Glass	Red PTFE/ White Silicone	C4010-17A	**03-375-14D**	93.65

Thermo Scientific™ National™ Standard-Opening 12 × 32mm Screw Thread Glass Vials

Maximum Fill Volume	Description	Mfr. No.	Cat. No.	Pack of	Case of
1.8mL	2mL Clear	C4013-1	**03-375-16A**	100/29.02	20 Pk./477.71
1.8mL	2mL Clear	C4013-1500	**C40131500**	1000/213.50	----
1.8mL	2mL Clear I-D™	C4013-1W	**03-375-18C**	100/36.40	20 Pk./528.50
1.8mL	2mL Amber	C4013-2	**03-375-16B**	100/35.25	20 Pk./583.00
1.8mL	2mL Amber I-D	C4013-2W	**03-375-16BB**	100/40.90	20 Pk./676.50
150µL	150µL MicroVials™, Clear Solid	C4013-12	**03-375-17C**	----	12 Pk./153.60
Deactivated Glass Vials					
1.8mL	2mL Clear I-D, Kimshield™	C4013-K1W	**03-378-317**	100/65.10	----
1.8mL	2mL Amber I-D, Kimshield	C4013-K2W	**03-378-335**	100/73.80	----

Thermo Scientific™ National™ Silanized Target™ Screw-Thread Vials

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 20 Pk.
Silanized	C4013-S1	**03-375-16AS**	73.50	1229.00

Thermo Scientific™ National™ 8-425 Empty Caps (No Septum) — for 8-425 Standard Opening Vials

Description	Cap Color	Material	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
Open top cap	Black	Polypropylene	C4013-1A	**03-375-18A**	9.79	77.40
Open top cap, Phenolic	Black	Phenolic	C4013-66	**03-378-358**	----	116.70
Open top cap with flange	Black	Polypropylene	C4013-3A	**03-375-18B**	17.05	132.00
	White		C4013-98W	**03-377-104**	16.44	140.00
	Blue		C4013-98B	**03-378-388**	9.51	75.90
	Green		C4013-98G	**03-378-337**	4.67	46.65
	Red		C4013-98R	**03-378-336**	9.51	75.90
	Yellow		C4013-98Y	**03-378-326**	9.05	74.87

Thermo Scientific™ National™ Limited-Volume Polypropylene Vials with 10-425 Finish

Description	Fill Volume	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
MicroVials™, Tapered Tip	400µL	C4010-11	**03-375-17CA**	34.85	288.50
High Recovery Vial	550µL	C4010-14	**03-375-17CB**	32.85	271.50

Thermo Scientific™ National™ Assembled Caps and Septa for 8-425 Standard-Opening Vials

Cap Type	Cap Color	Material	Septum	Mfr. No.	Cat. No.	Pack of	Case of 1000
Open top cap	Black	Polypropylene	Ivory PTFE/Red Rubber	C4013-30A	**03-375-20G**	100/51.20	----
Open top cap	Black	Polypropylene	Red PTFE/White Silicone/Red PTFE	C4013-40A	**03-375-37A**	100/52.60	----
Open top cap	Black	Polypropylene	Red PTFE/White Silicone	C4013-60A	**03-375-37B**	100/54.04	446.22
Open top cap w/Flange	Black	Polypropylene	Red PTFE/White Silicone	C4013-63A	**03-377-100**	100/57.25	472.19
Open top cap w/Flange	White	Polypropylene	Red PTFE/White Silicone	C4013-63W	**03-377-101**	100/58.20	485.00
Open top cap w/Flange	Black	Polypropylene	Blue PTFE/White Silicone Pre-slit Septum	C4013-64A	**03-377-102**	100/63.60	531.50
Open top cap w/Flange	White	Polypropylene	Blue PTFE/White Silicone, Pre-slit	C4013-64W	**03-377-103**	100/64.10	536.00
Open top cap	Black	Phenolic	Ivory PTFE/Red Rubber	C4013-71A	**03-378-318**	100/47.15	----
Open top cap	Black	Phenolic	Red PTFE/White Silicone	C4013-74A	**03-378-339**	100/61.20	----
Open top cap w/Flange	Black	Polypropylene	Red PTFE/White Silicone, Pre-slit	C4013-77A	**03-378-319**	100/55.20	----

Thermo Scientific™ National™ Assembled Standard Opening Vial, Cap and Septum Kits

Vial	Cap	Septum	Mfr. No.	Cat. No.	Pack of 100
Clear Glass	Black	White PTFE	C4013-10A	**03-375-3E**	51.80
Clear Glass	Black	Red PTFE/White Silicone	C4013-15A	**03-375-3F**	73.30
Clear Glass	Black Flanged	Blue PTFE/White Silicone - Pre-slit	C4013-32A	**03-375-20E**	81.90
Clear Glass	Black Flanged	Red PTFE/White Silicone	C4013-57	**03-375-50E**	72.80
Clear Glass	Black Flanged	Red PTFE/White Silicone - Pre-slit	C4013-195	**03-378-367**	76.20
Amber Glass	Black	White PTFE	C4013-19A	**03-375-20A**	54.00
Amber Glass	Black	Red PTFE/White Silicone	C4013-17A	**03-375-20B**	75.20
Amber Glass	Black Flanged	Red PTFE/White Silicone	C4013-57A	**03-375-50C**	71.39
Amber Glass	Black Phenolic	White PTFE	C4013-415A	**03-378-362**	50.90
Amber Glass I-D™	White Flanged	Red PTFE/White Silicone	C4013-58AW	**03-376-460**	68.11
Packaged in Polybag					
Clear Glass	Black	White PTFE	C4013-010A	**03-375-38A**	47.85
Clear Glass	Black	Red PTFE/White Silicone	C4013-015A	**03-375-38C**	67.80
Clear Glass	Black	Red PTFE/White Silicone/Red PTFE	C4013-016A	**03-375-38E**	84.60
Amber Glass	Black	White PTFE	C4013-019A	**03-375-38B**	49.80
Amber Glass	Black	Red PTFE/White Silicone	C4013-017A	**03-375-38D**	70.10

National Scientific Polyethylene SepCap™ Cap

Description	Mfr. No.	Cat. No.	Pack of 500
12 × 32 replacement	C4011-81	**03-391A**	40.80
For shell vials	C4015-97	**03-375-2H**	29.50

Thermo Scientific™ National™ Target DP™ Robovial™ Caps with Pre-Inserted Septa

- Bonded caps feature a PTFE/Silicone septum electrolytically bonded into the cap, reducing septa push-through when used with blunt tip needles on high-speed autosamplers
- Pre-assembled caps and septa are convenient to minimize contamination from handling
- Fully compatible with all Target DP vials
- Easy-on, easy-off convenience with just half-a-turn
- Storage cap has a solid top and pre-inserted PTFE/red rubber liner

Cap Color	Septa	Mfr. No.	Cat. No.	Pack of	Case of 10 Pack
Black	Bonded Natural PTFE/ Clear Silicone	C4000-62A	**03-377-503**	100/42.20	10/341.50
Blue	Bonded Natural PTFE/ Clear Silicone	C4000-62B	**03-377-504**	100/42.20	10/352.00
Green	Bonded Natural PTFE/ Clear Silicone	C4000-62G	**03-377-505**	100/29.10	10/341.00
Red	Bonded Natural PTFE/ Clear Silicone	C4000-62R	**03-377-506**	100/42.10	10/341.50
Yellow	Bonded Natural PTFE/ Clear Silicone	C4000-62Y	**03-377-507**	100/41.16	10/329.81
Black	Bonded PTFE/Silicone	C4000-64B	**03-378-31**	100/42.60	10/343.50

Thermo Scientific™ National™ Target DP™ Screw Caps with Septa

Use color coding to separate assays, standards or samples

Cap Color	Mfr. No.	Cat. No.	Pack of	Case of 10 Packs
Ivory PTFE/Red Rubber Septa				
Black	C4000-51A	**03-396-96**	100/32.55	270.00
Blue	C4000-51B	**03-377-1A**	100/30.50	267.00
Green	C4000-51G	**03-377-1B**	100/30.25	266.00
Red	C4000-51R	**03-377-1C**	100/30.25	266.00
Yellow	C4000-51Y	**03-377-1D**	100/30.35	267.00
Pre-slit Ivory PTFE/Red Rubber Septa				
Blue	C4000-57B	**03-375-77A**	1000/477.50	----
Green	C4000-57G	**03-375-77B**	1000/477.17	----
Red	C4000-57R	**03-375-77C**	1000/477.17	----
Yellow	C4000-57Y	**03-375-77D**	1000/475.58	----
PTFE/Silicone/PTFE				
Black	C4000-53A	**03-396-97**	100/51.30	425.50
Blue	C4000-53B	**03-377-2A**	100/50.70	420.00
Green	C4000-53G	**03-377-2B**	100/49.09	405.87
Red	C4000-53R	**03-377-2C**	100/50.60	420.00
Yellow	C4000-53Y	**03-377-2D**	100/50.60	420.00
PTFE/Silicone				
Black	C4000-54A	**03-396-98**	100/37.32	309.53
Blue	C4000-54B	**03-377-3A**	100/38.45	318.00
Green	C4000-54G	**03-377-3B**	100/38.35	318.00
Red	C4000-54R	**03-377-3C**	100/37.21	307.48
Yellow	C4000-54Y	**03-377-3D**	100/37.21	307.48
Pre-slit Blue PTFE/Silicone				
Black	C4000-55A	**03-396-78**	100/53.40	450.50
Blue	C4000-55B	**03-375-77E**	100/53.50	456.50
Green	C4000-55G	**03-375-77F**	1000/500.38	----
Red	C4000-55R	**03-375-77G**	1000/502.50	----
Yellow	C4000-55Y	**03-375-77H**	100/53.40	452.50
Solid Top Storage Cap with PTFE/Rubber Liner				
Black	C4000-99	03-375-55C	100/57.20	478.50

Thermo Scientific™ National™ Unassembled Certified™ Vial Kits

High-quality kits certified to give the extra assurance that the vials uphold rigorous manufacturing standards

Description	Mfr. No.	Cat. No.	Pack of
PTFE/Rubber Septa			
Certified Target DP 2mL Clear Vial, 9mm Screw Thread	CERT4000-80	**03-377-345**	100/51.03
Certified Target DP 2mL Clear I-D™ Vial, 9mm Screw Thread	CERT4000-80W	**03-377-346**	100/52.80
Certified Target DP 2mL Amber I-D Vial, 9mm Screw Thread	CERT4000-82W	**03-377-348**	100/56.70
PTFE/Silicone/PTFE Septa			
Certified Target DP 2mL Clear I-D Vial, 9mm Screw Thread	CERT4000-86W	**03-377-349**	100/69.70
PTFE/Silicone Septa			
Certified Target DP 2mL Clear I-D Vial, 9mm Screw Thread	CERT4000-92W	**03-377-347**	100/60.20
Certified Target DP 1.5mL Clear Glass High Recovery Vial, 9mm Screw Thread	CERT4000-992	**03-377-333**	100/184.70
Certified Target DP 1.5mL Clear Glass I-D, 9mm Screw Thread	CERT4000-78W	**03-377-337**	100/63.40
Certified Target DP 350µL Clear Glass I-D Fused Insert Vial, 9mm Screw Thread	CERT4000-69LV	**03-377-339**	100/139.80
Slit PTFE/Silica Septa			
Certified Target DP 1.5mL Clear High Recovery Vials, 9mm Screw Thread	CERT4000-79	**03-377-334**	100/191.10
Certified Target DP 2mL Clear I-D Vial Kit, 9mm Screw Thread	CERT4000-93W	**03-377-338**	100/66.80
SepCap™ Shell Vial Kits			
Certified 1mL Clear Glass	CERT4015-96	**03-377-350**	200/26.55
Certified 1mL Amber Glass	CERT4015-99	**03-377-351**	200/31.90

Thermo Scientific™ National™ Assembled Certified™ Vial Kits

High-quality chromatography vial kits certified to give the extra assurance that the vials uphold rigorous manufacturing standards

Description	Closure Color	Septum	Mfr. No.	Cat. No.	Pack of
2mL Amber Glass I-D™ Vial Kit, 9mm Screw Thread	Gray	Bonded Red PTFE/White Silicone, Pre-slit	CERT4000-176W	**03-377-400**	100/66.70
2mL Amber Glass Vial Kit, 9mm Screw Thread	Black	Bonded Red PTFE/White Silicone	CERT4000-175W	**03-377-365**	100/65.20
2mL Clear Glass ID Vial Kit, 9mm Screw Thread	Gray	Bonded Red PTFE/White Silicone, Pre-slit	CERT4000-193W	**03-377-401**	100/74.40
4mL Clear Glass Vial Kit, 13-425 Screw Thread	Gray	Bonded Red PTFE/White Silicone, Pre-slit	CERT4015-84-ASM	**03-377-402**	100/103.51
4mL Amber Glass Vial Kit, 13-425 Screw Thread	Gray	Bonded Red PTFE/White Silicone, Pre-slit	CERT4015-87-ASM	**03-377-403**	100/106.67

Thermo Scientific™ National™ Polypropylene and Glastic™ Vials with 8-425 Finish

Description	Maximum Fill Volume	Mfr. No.	Cat. No.	Pack of 100	Case of 1000
250µL Conical MicroVial	250µL	C4013-11	**22-045-918**	35.82	294.64
850µL High-Recovery MicroVial™	675µL	C4013-13	**03-378-334**	----	340.00
150µL Glastic Glass Insert TPX MicroVials	100µL	C4013-15GST	**03-378-340**	324.00	----

Fisherbrand® Robotic Screw Top Autosampler Vials

40% larger opening than other comparable vials

Description	Cat. No.	Pack of 100
Vials		
Clear Glass	**03-391-8**	19.73
Amber with Write-on Patch	**03-391-9**	25.25
Closures		
Blue 9mm PTFE/Silicone Preassembled Closures	**03-391-14**	30.70
Blue 9mm PTFE/Red Rubber Preassembled Closures	**03-391-31**	25.80
Blue 9mm PTFE/Silicone/PTFE Preassembled Closures	**03-391-32**	40.20
Convenience Kit		
Clear Vials w/Blue Caps and PTFE/Silicone Septa	**0339115**	50.20

Fisherbrand® 2mL Screw Thread Autosampler Vials

Available separately or packaged into convenience kits with caps and septa

Description	Cat. No.	Pack of 100
Vials		
Clear	**03-391-16**	22.23
Amber I-D™	**03-391-36**	26.40
Closures		
Blue 9mm PTFE/Silicone Preassembled Closure	**03-391-17**	44.00
Inserts		
Polyspring Vial Insert, Glass, 300µL	**03-391-35**	115.60
Convenience Kit		
Clear Vials w/Black Caps and PTFE/Silicone Septa	**03-391-18**	75.08

Fisherbrand® 2mL Standard Opening Screw Thread Glass Vials

With 8-425 screw thread for 12 × 32mm profile

Color	Fill Capacity	Cat. No.	Pack of 100
Clear	1.8mL	**03-391-44**	25.70
Amber	1.8mL	**03-391-45**	29.55

Fisherbrand® Pre-assembled 8-425 Screw Thread Cap with Septa

Convenient caps minimize contamination from handling

Cat. No.	Pack of 100
03-391-46	47.90

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Thermo Scientific™ SUN-SRi™ 8-425 Standard Opening 12 × 32mm Vials

Excellent for small samples or samples that must be evaporated and reconstituted without having to use multiple sample vials

Capacity	Overall Color	Material	Mfr. No.	Cat. No.	Each
1.1mL	Clear	Glass	502 044	**14-823-415**	560.50
1.5mL	Amber	Glass	200 252	**22-313-377**	31.45
500µL	Natural	Polyproylene	500 124	**14-823-315**	28.00
400µL	Natural	Polyproylene	500 114	**14-823-313**	234.50
300µL	Natural	Polyproylene	200 264	**14-823-168**	234.50

Thermo Scientific™ SUN-SRi™ Unassembled 10-425 Vial Kits

Pre-assembled caps and septa save time during sample preparation and minimize contamination during assembly

Color	Mfr. No.	Cat. No.	Pack of 100
Clear	200 403	**14-823-182**	75.30
Amber	200 514	**14-823-199**	62.10

Thermo Scientific™ SUN-SRi™ Shell Vials for Waters™ WISP

Unassembled vial kits with the appropriate closures

Description	Mfr. No.	Cat. No.	Each
4mL Shell Vial PP w/clear Plug	500 160	**14-823-320**	32.65

Thermo Scientific™ SUN-SRi™ 10-425 Wide Opening Vials

Provide increased target area for easier sample preparation

Description	Quantity	Mfr. No.	Cat. No.	Pack of 100
Clear Glass	1.5mL	500 306	**14-823-335**	27.20
Amber Glass	1.5mL	500 322	**14-823-337**	31.40
Polypropylene	750µL	501 353	**14-823-391**	41.80

Thermo Scientific™ SUN-SRi™ StepVial II™ Vials

Designed to ensure proper centering of limited-volume inserts, eliminating missed injections

Description	Mfr. No.	Cat. No.	Pack of 100
Clear	500 778	**14-823-355**	26.40
Amber	500 779	**22-030-187**	28.80

Thermo Scientific™SUN-SRi™ Microsampling 9mm Vials

Description	Capacity	Mfr. No.	Cat. No.	Pack of 100
Clear; 12 × 32mm	350µL	501 340	**14-823-387**	119.10

Thermo Scientific™ Sun-SRi™ 20mm Septa

Description	Mfr. No.	Cat. No.	Pack of
High-Purity Silicone/PTFE Seal	502 153	**22-030-211**	100/120.50
Silicone/PTFE Ultraclean Seal	502 158	**22-030-212**	250/265.50
Blue Silicone/PTFE 1.01mm Thick	502 156	**14-823-423**	500/410.50
PTFE/Silicone septa for 20mL vials	200 952	**22-026-429**	100/59.30
PTFE/Gray Butyl Septa for 20mL vials	405 048	**22-032-958**	100/123.20

Thermo Scientific™ SUN-SRi™ StepVial II Cap/Septa Kit

Threaded closures with septa designed for use with StepVial II vials

Mfr. No.	Cat. No.	Pack of 100
503 790	**14-823-454**	31.50

Thermo Scientific™ SUN-SRi™ Step Vial II Unassembled Vial/ Cap/Septa Kit

Caps and septa are pre-assembled to save time during sample preparation and to minimize contamination during assembly

Mfr. No.	Cat. No.	Pack of 100
500 798	**22-030-203**	62.80

Thermo Scientific™ SUN-SRi™ Magnetic Screw-Thread Closures

Septa	Mfr. No.	Cat. No.	Pack of 100
SPME	405 029	**22-030-204**	60.60
PTFE/Silicone	405 031	**22-030-205**	78.70
PTFE/Chlorobutyl	405 035	**22-030-206**	56.10

Thermo Scientific™ National™ Mass Spec Certified™ Vials with Bonded Caps

Industry's first and only pre-cleaned, low particle, low background chromatography vial

NEW_Capacity [Metric]	Color	Mfr. No.	Cat. No.	Pack of 100
200µL	Clear	MSCERT4000-30LVW	**03-394-200**	94.00
350µL	Clear	MSCERT4000-31LVW	**03-394-201**	96.30
900µL	Clear	MSCERT4000-32	**03-394-202**	152.40
1.0mL	Clear	MSCERT4000-33TR	**03-394-203**	163.80
2.0mL	Clear	MSCERT4000-34W	**03-394-204**	65.30
2.0mL	Amber	MSCERT4000-35W	**03-394-205**	68.80
2.0mL	Clear	MSCERT4000-S34W	**03-394-212**	80.20
2.0mL	Amber	MSCERT4000-S35W	**03-394-213**	82.60

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ National™ Mass Spec Certified™ Vials with Bonded Pre-slit Caps

Capacity	Color	Mfr. No.	Cat. No.	Pack of 100
200µL	Clear	MSCERT4000-36LVW	**03-394-206**	96.80
350µL	Clear	MSCERT4000-37LVW	**03-394-207**	99.00
900µL	Clear	MSCERT4000-38	**03-394-208**	154.10
1.0mL	Clear	MSCERT4000-39TR	**03-394-209**	165.30
2.0mL	Clear	MSCERT4000-40W	**03-394-210**	68.70
2.0mL	Amber	MSCERT4000-41W	**03-394-211**	72.10
2.0mL	Clear	MSCERT4000-S40W	**03-394-214**	82.10

Shell

Thermo Scientific™ National™ Shell Vials for Micrometrics/Alcott™ Model 728

Description	Mfr. No.	Cat. No.	Pack of 1000
Clear Glass Positive Displacement Vial with Plug Cap	C4008-50	**03-375-24Y**	328.00

Thermo Scientific™ National™ SepCap™ Shell-Style Vials

Description	Mfr. No.	Cat. No.	Pack of
Shell-Style Vials			
1mL Clear Glass	C4015-96	**03-375-2G**	200/26.65
1mL Amber Glass	C4015-99	**03-375-2Q**	200/34.80
1mL Polypropylene	C4015-95P	**03-378-3B**	250/73.50

Fisherbrand® Shell Vials for Waters™ Autosamplers

Shell vials for Waters 48- and 96-position autosamplers

Size	Cat. No.	Pack of
1mL	**03-391-23**	200/24.25
4mL	**03-391-24**	100/22.70

Fisherbrand® Autosampler Vials — 8 x 35mm Shell Vials

1mL shell vials for Alcott™/Micrometrics 728 autosamplers

Cat. No.	Pack of 1000
03-391-30	258.28

Vials

Kimble-Chase Open-Top Polypropylene Screw Thread Closures with Red PTFE-Faced Silicone Septa

Autoclavable and used for multiple injections

Septa	Cap Color	Mfr. No.	Cat. No.	Case of 1000
8-425 GPI Thread Finish				
Standard	Black	73812BK-8425	**03-341-604**	388.50
Pre-slit	Black	73813BK-8425	**03-341-605**	468.46
Standard	White	73812WH-8425	**03-341-606**	386.52
Pre-slit	White	73813WH-8425	**03-341-607**	470.50
9-425 GPI Thread Finish				
Standard	Black	73812BK-9425	**03-341-608**	386.52
Standard	Blue	73812BL-9425	**03-341-610**	386.52
Pre-slit	Black	73813BK-9425	**03-341-609**	470.50
Pre-slit	Blue	73813BL-9425	**03-341-611**	468.46
13-425 GPI Thread Finish				
Standard	Black	73812BK-13425	**03-341-612**	388.50
Pre-slit	Black	73813BK-13425	**03-341-613**	468.46
Standard	White	73812WH-13425	**03-341-614**	392.35
Pre-slit	White	73813WH-13425	**03-341-615**	468.46

Thermo Scientific™ National™ 2mL Screw Thread Vials with Caps and Septa

Offered with variety of septa material

Vial Color	Septa	Mfr. No.	Cat. No.	Pack of 100
8mm Standard-Opening Screw Thread Vials				
Clear	Red PFTE/White Silicone	C4013-15P	**03-377-458**	59.66
Amber	Red PFTE/White Silicone	C4013-17P	**03-377-459**	64.11
9mm Wide-Opening Short-Screw Thread Vials				
Clear	Ivory PTFE/Red Rubber	C4000-80P	**03-377-460**	31.70
Amber w/patch	Ivory PTFE/Red Rubber	C4000-82P	**03-377-461**	27.45
Clear	Red PFTE/White Silicone	C4000-92P	**03-377-462**	29.45
Amber w/patch	Red PFTE/White Silicone	C4000-94P	**03-377-463**	33.80
Clear	Blue PTFE/White Silicone, Pre-Slit	C4000-95P	**03-377-464**	58.87
Clear	Bonded Natural PTFE/Clear Silicone, Pre-slit	C4000-93P	**03-377-465**	36.45

Thermo Scientific™ SUN-SRi™ High Recovery Vials

Combine large sample capacities while eliminating waste

Capacity	Color	O.D. × H	Neck Finish	Mfr. No.	Cat. No.	Pack of 100
1.5mL	Clear	12 × 32mm	9-425	203 507	**10-800-081**	156.77
1.5mL	Amber	12 × 32mm	9-425	203 509	**10-800-082**	178.20
1.5mL	Clear	13 × 44mm	13-425	203 511	**10-800-083**	229.69
3.8mL	Amber	15 × 45mm	13-425	203 513	**10-800-084**	208.00
3.8mL	Clear	15 × 45mm	13-425	203 515	**10-800-085**	199.80
4.0mL	Clear	15 × 51mm	13-425	203 517	**10-800-086**	201.98
5.0mL	Clear	17 × 51mm	15-425	203 519	**10-800-087**	210.00

Thermo Scientific™ SUN-SRi™ Headspace Vial Kits

Reduce contamination during sample preparation and save time in the laboratory

Description	Mfr. No.	Cat. No.	Case of 500
Vial Kit, 20mm, Headspace, Round Bottom, PTFE/Silicone, Retaining Ring Seal	400 887	**14-823-275**	401.50

Thermo Scientific™ SUN-SRi™ Headspace Vials

Designed with a round bottom that is more easily handled by robotic arms

Description	O.D. × H	Mfr. No.	Cat. No.	Pack of
20mm Crimp-Top Vials				
10mL Clear, Round bottom	22 × 45mm	502 046	**14-823-530**	125/54.10
20mL Clear, Round bottom	22 × 75mm	500 550	**14823340**	100/45.10
20mL Clear, Square bottom	22.5 × 75mm	200 898	**14-824-220**	100/44.15
20mL Amber, Round bottom	22 × 75mm	502 554	**14-823-531**	125/81.90
18mm Screw-Top Vials				
10mL Clear, Round bottom	22 45mm	502 460	**14-823-532**	125/69.20
20mL Clear, Round bottom, without cap	22 × 75mm	502 459	**14-823-450**	100/35.10
20mL Clear, Round bottom	22 × 75mm	502 458	**14-823-533**	125/90.70

Vial Accessories

Thermo Scientific™ Electronic Crimpers and Decappers

Improved ergonomics and extended battery life

For Use with	Mfr. No.	Cat. No.	Each
Crimpers			
8mm Crimp Caps	ECR-8C	**03-377-451**	871.50
11mm Crimp Caps	ECR-11C	**03-377-452**	876.00
13mm Crimp Caps	ECR-13C	**03-377-453**	865.00
20mm Crimp Caps	ECR-20C	**03-377-454**	856.50
De-Crimpers			
11mm Crimp Caps	EDCB-11C	**03-377-455**	863.00
13mm Crimp Caps	EDCB-13C	**03-377-456**	869.00
20mm Crimp Caps	EDCB-20C	**03-377-457**	871.50

Restek™ Electronic Rechargable Crimpers

Easy to use with a comfortable grip

For Use with	Mfr. No.	Cat. No.	Each
11mm and 20mm Caps	22359	**06-715-309**	711.50

Thermo Scientific™ La-Pha-Pack™ Micro-Inserts for Short Thread Vials with wide opening

For use with ND9 and ND10 screw neck vials

Description	Mfr. No.	Cat. No.	Each
Clear glass; With assembled plastic spring	06 09 0865	**06-090-865**	333.00

Restek™ Easy Grip™ Manual Crimper

Mfr. No.	Cat. No.	Each
23398	**06-711-290**	211.50

Thermo Scientific™ SUN-SRi™ 11mm Snap Caps

Easy-to-apply caps eliminate crimping and decrimping of closures

Septa	Mfr. No.	Cat. No.	Pack of
Clear PTFE/Red Rubber	501 312	**14-823-379**	100/29.10
PTFE/Silicone	501 313	**14-823-380**	100/36.40
PTFE/Silicone/PTFE	501 385	**14-823-399**	1000/528.50
0.010" PTFE	501 319	**14-823-381**	100/25.15
PTFE	501 390	**14-823-480**	1000/252.50

Thermo Scientific™ National™ Crimping and Decapping Tools

Precision tools for crimp and flip-off seals

For Use With	Mfr. No.	Cat. No.	Each
Manual Crimper			
8mm crimp seals	C4008-100	**06-406-19R**	292.00
11mm crimp seals	C4012-100	**03-375-7**	288.50
13mm crimp seals	C4013-100	**03-375-17A**	292.50
13mm flip-off seals	C4013-100F	**03-375-75C**	292.00
Manual Decrimper			
8mm crimp seals	C4008-102	**06-406-19AD**	325.50
11mm crimp seals	C4012-102	**03-375-8A**	325.50
13mm crimp seals	C4013-101	**03-375-17B**	94.60
Manual Decapping Pliers			
8mm crimp seals	C4008-101	**06-406-19S**	86.90
11mm crimp seals	C4012-101	**03-375-8**	90.10
13mm crimp seals	C4013-102	**03-375-17D**	320.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Wheaton™ Glass Sample Vials in Lab File With Caps Attached

Attached caps help maintain cleanliness

Size	Color	Liner	Cap Size	Outside Dia. × H	Fits M-T™ Vial File	Vial Rack	Mfr. No.	Cat. No.	Case of
With Caps Attached									
2mL (0.5 dr)	Clear	14B Rubber	8-425	12 × 38mm	06-451-338	06-408-10	224881	**06-408A**	288/187.28
2mL (0.5 dr)	Clear	PTFE/14B Rubber	8-425	12 × 38mm	06-451-338	06-408-10	W224581	**02-911-648**	288/415.00
4mL (1 dr)	Clear	14B Rubber	13-425	15 × 48mm	03-336-30	06-408-7	224882	**06-408B**	144/101.71
4mL (1 dr)	Clear	PTFE/14B Rubber	13-425	15 × 48mm	03-336-30	06-408-7	W224582	**02-911-649**	144/188.10
8mL (2 dr)	Clear	14B Rubber	15-425	17 × 63mm	02-912-820	22-262-955	224884	**06-408C**	144/119.54
8mL (2 dr)	Clear	PTFE/14B Rubber	15-425	17 × 63mm	02-912-820	22-262-955	W224584	**02-911-650**	144/221.50
12mL (3 dr)	Clear	14B Rubber	15-425	19 × 68mm	NA	NA	224885	**06-412-11**	144/145.50
12mL (3 dr)	Clear	PTFE/14B Rubber	15-425	19 × 68mm	NA	NA	W224585	**02-911-651**	144/232.50
16mL (4 dr)	Clear	14B Rubber	18-400	21 × 73mm	NA	NA	224886	**06-412-12**	144/169.90
16mL (4 dr)	Clear	PTFE/14B Rubber	18-400	21 × 73mm	NA	NA	W224856	**02-911-652**	144/273.50
20mL (5 dr)	Clear	14B Rubber	24-400	28 × 60mm	02-912-821	06-408-6	225288	**0641229**	72/100.40
20mL (5 dr)	Clear	PTFE/14B Rubber	24-400	28 × 60mm	02-912-821	06-408-6	W224589	**02-911-665**	72/179.42
24mL (6 dr)	Clear	14B Rubber	20-400	23 × 88mm	NA	06-408-8	224888	**06-412-13**	144/217.00
24mL (6 dr)	Clear	PTFE/14B Rubber	20-400	23 × 88mm	NA	06-408-6	W224588	**02-911-653**	144/316.00
25mL (6.76 dr)	Clear	14B Rubber	24-400	28 × 73mm	NA	06-408-8	225289	**0641230**	72/98.50
25mL (6.76 dr)	Clear	PTFE/14B Rubber	24-400	28 × 73mm	NA	06-408-6	W224590	**02-911-666**	72/197.00
40mL (10.8 dr)	Clear	14B Rubber	24-400	28 × 98mm	NA	06-408-6	225290	**06-412-31**	72/110.40
40mL (10.8 dr)	Clear	PTFE/14B Rubber	24-400	28 × 98mm	NA	06-408-6	W224591	**02-911-667**	72/234.50
With Writing Patch and Caps Attached									
4mL (1 dr)	Clear	14B Rubber	13-425	15 × 48mm	03-336-30	06-408-7	225012	**03-337-21A**	144/135.16
8mL (2 dr)	Clear	14B Rubber	15-425	17 × 63mm	02-912-820	22-262-955	225014	**06-451-188**	144/147.50

Sample

Glass

Kimble-Chase ShellVial with N-51A Borosilicate Glass Plain Top

With or without closure

Closure	Height	O.D.	Capacity	Mfr. No.	Cat. No.	Pack of 144	Case of
Open-bottom Tite-Seal™, unattached	45mm	15mm	1 Dram	60965D-1	**03-339-15A**	62.50	16 Pk. 739.00
None	62mm	24mm	4 Drams	60965 4	**03-339-32**	77.20	4 Pk. 228.50

Kimble-Chase Closures for Sample Vials

Black phenolic closure with PTFE-lined cap

GPI Thread Finish	Mfr. No.	Cat. No.	Case of 144
8-425	73802 8425	**03-340-14D**	53.90
13-425	73802 13425	**03-340-14F**	81.70
15-425	73802 15425	**03-340-14E**	91.50
18-400	73802 18400	**03-340-14B**	124.50
20-400	73802 20400	**03-340-14C**	169.70
24-400	73802 24400	**03-340-14A**	180.50

Thermo Scientific™ National™ Glass Screw Thread Sample Vials without Caps

Excellent for sample storage

Capacity	O. D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of
Clear					
1/2 dr. (2mL)	12 × 32	8-425	B7999-1	**03-391-10A**	100/30.35
1 dr. (4mL)	15 × 45	13-425	B7999-2	**03-391-10B**	100/26.80
21/8 dr. (8mL)	17 × 60	15-425	B7999-3	**03-391-10C**	200/72.80
31/4 dr. (12mL)	19 × 65	15-425	B7999-12	**03-391-10D**	200/85.20
43/8 dr. (16mL)	21 × 70	18-400	B7999-4	**03-391-10E**	200/97.30
6 dr. (22mL)	23 × 85	20-400	B7999-5	**03-391-10F**	200/129.80
107/8 dr. (40mL)	28 × 95	24-400	B7999-6	**03-391-10G**	100/69.10
Amber					
1/2 dr. (2mL)	12 × 32	8-425	B7999-1A	**03-391-11A**	100/36.35
1 dr. (4mL)	15 × 45	13-425	B7999-2A	**03-391-11B**	100/36.70
2 dr. (8mL)	17 × 60	15-425	B7999-3A	**22-045681**	200/103.70
31/4 dr. (12mL)	19 × 65	15-425	B7999-12A	**03-391-11D**	200/110.30
43/8 dr. (16mL)	21 × 70	18-400	B7999-4A	**03-391-11E**	200/123.00
107/8 dr. (40mL)	28 × 95	24-400	B7999-6A	**03-391-11F**	100/76.80

Thermo Scientific™ National™ PTFE-Lined Sample Storage Caps

PTFE lining offers broad chemical resistance

GPI Thread Finish	Mfr. No.	Cat. No.	Case of 100
8-425	B7815-8	**03-391-12A**	39.85
13-425	B7815-13	**03-391-12B**	35.85
15-425	B7815-15	**03-391-12C**	45.95
18-400	B7815-18	**03-391-12D**	48.75
20-400	B7815-20	**03-391-12E**	60.40
24-400	B7815-24	**03-391-12F**	76.50

Thermo Scientific™ National™ Glass Sample Vials with PTFE-Lined Solid Storage Caps

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of
Clear EPA Class 100					
5.375 dr. (20mL)	28 × 57mm	24-400	B7800-20	**03-375-25**	100/91.50
Clear Sample					
0.5 dr. (2mL)	12 × 32mm	8-425	B7800-1	**03-391-7A**	100/74.80
1 dr. (4mL)	15 × 45mm	13-425	B7800-2	**03-391-7B**	100/59.70
2.125 dr. (8mL)	17 × 60mm	15-425	B7800-3	**03-391-7C**	200/139.80
3.25 dr. (12mL)	19 × 65mm	15-425	B7800-12	**03-391-7D**	200/165.50
4.375 dr. (16mL)	21 × 70mm	18-400	B7800-4	**03-391-7E**	200/179.10
6 dr. (24mL)	23 × 85mm	20-400	B7800-5	**03-391-7F**	200/214.50
10.725 dr. (40mL)	28 × 95mm	24-400	B7800-6	**03-391-7G**	100/109.70
Amber Sample					
0.5 dr. (2mL)	12 × 32mm	8-425	B7800-1A	**03-391-8A**	100/82.10
1 dr. (4mL)	15 × 45mm	13-425	B7800-2A	**03-391-8B**	100/73.30
2.125 dr. (8mL)	17 × 60mm	15-425	B7800-3A	**03-391-8C**	200/154.00
3.25 dr. (12mL)	19 × 65mm	15-425	B7800-12A	**03-391-8D**	200/173.40
4.375 dr. (16mL)	21 × 70mm	18-400	B7800-4A	**03-391-8E**	200/184.50
10.725 dr. (40mL)	28 × 95mm	24-400	B7800-6A	**03-391-8F**	100/124.80

Thermo Scientific™ National™ Glass Screw Thread Sample Vials with Open Top Caps and Septa

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of
Clear					
0.5 dr. (2)	12 × 32mm	8-425	B7990-1	**03-393F**	100/66.80
1 dr. (4)	15 × 45mm	13-425	B7990-2	**03-393G**	100/72.20
2.125 dr. (8)	17 × 60mm	15-425	B7990-3	**03-393A**	200/157.50
3.25 dr. (12)	19 × 65mm	15-425	B7990-12	**03-393B**	200/167.50
4.375 dr. (16)	21 × 70mm	18-400	B7990-4	**03-393C**	200/207.50
6 dr. (22)	23 × 85mm	20-400	B7990-5	**03-393D**	200/269.00
10.725 dr. (40)	28 × 95mm	24-400	B7990-6	**03-393E**	100/136.70
Amber					
0.5 dr. (2)	12 × 32mm	8-425	B7990-1A	**03-391-9A**	100/67.90
1 dr. (4)	15 × 45mm	13-425	B7990-2A	**03-391-9B**	100/71.90
2.125 dr. (8)	17 × 60mm	15-425	B7990-3A	**03-391-9C**	200/172.80
3.25 dr. (12)	19 × 65mm	15-425	B7990-12A	**03-391-9D**	200/175.60
4.375 dr. (16)	21 × 70mm	18-400	B7990-4A	**03-391-9E**	200/214.50
10.725 dr. (40)	28 × 95mm	24-400	B7990-6A	**03-391-9F**	100/146.50

Standard

Thermo Scientific™ Dionex™ Combined Five Anion Standard

For routine anion determinations

Quantity	Mfr. No.	Cat. No.	Each
100mL	037157	**DX037157**	123.10

Thermo Scientific™ Dionex™ Fluoride Standard

Standard solution

Quantity	Concentration	Mfr. No.	Cat. No.	Each
100mL	1000mg/L	037158	**DX037158**	59.30

Thermo Scientific™ Dionex™ Chloride Standard

Quantity	Concentration	Mfr. No.	Cat. No.	Each
100mL	1000mg/L	037159	**DX037159**	59.30

Thermo Scientific™ Dionex™ Sulfate Standard

Standard solution

Quantity	Concentration	Mfr. No.	Cat. No.	Each
100mL	1000mg/L	037160	**DX037160**	59.30

Thermo Scientific™ Dionex™ Combined Six Cation Standard-I

For routine cation determinations

Quantity	Mfr. No.	Cat. No.	Each
50mL	040187	**DX040187**	122.30

Thermo Scientific™ Dionex™ Combined Six Cation Standard-II

For routine cation determinations

Quantity	Mfr. No.	Cat. No.	Each
50mL	046070	**DX046070**	122.30

Thermo Scientific™ Dionex™ Combined Seven Anion Standard I

Anion standard solution

Quantity	Mfr. No.	Cat. No.	Each
50mL	056933	**DX056933**	123.10

Thermo Scientific™ Dionex™ Combined Seven Anion Standard II

Anion standard solution

Quantity	Mfr. No.	Cat. No.	Each
100mL	057590	**DX057590**	155.00

Thermo Scientific™ Dionex™ Monochloroacetic Acid -2-13C Internal Standard

In MtBE

Quantity	Concentration	Mfr. No.	Cat. No.	Each
1mL	1000mg/L	069406	**DX069406**	305.50

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Thermo Scientific™ Dionex™ Monobromoacetic Acid -1-13C Internal Standard

In MtBE

Quantity	Concentration	Mfr. No.	Cat. No	Each
1mL	1000mg/L	069407	**DX069407**	305.50

Thermo Scientific™ Dionex™ Dichloroacetic Acid -2-13C Internal Standard

In MtBE

Quantity	Concentration	Mfr. No.	Cat. No.	Each
1mL	1000mg/L	069408	**DX069408**	305.50

Thermo Scientific™ Dionex™ Trichloroacetic Acid -2-13C Internal Standard

Used as the internal standard

Quantity	Concentration	Mfr. No.	Cat. No.	Each
1mL	1000mg/L	069409	**DX069409**	305.50

Dissolution

Thermo Scientific™ SUN-SRi™ SunFlo™ Dissolution Filters

Manufactured of Ultra High Molecular Weight (UHMW) foamed porous polyethylene

Description	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Case of 1000
10µm Filter	400 104	**14-823-268**	106.50	400 105	**14-823-269**	923.00
20µm Filter	----	**----**	----	400 111	**14-823-274**	923.00
35µm Filter	400 101	**14-823-266**	106.60	400 102	**14-823-267**	923.00
45µm Filter	400 110	**14-823-273**	106.50	400 109	**14-823-272**	923.00
70µm Filter	400 107	**14-823-270**	106.50	400 108	**14-823-271**	898.98

Thermo Scientific™ SUN-SRi™ Dissolution Cannulae

Angled for easy access to samples

Description	Mfr. No.	Cat. No.	Each
Cannula with $4^3/_8$" Needle for 900mL Volume	401 350	**14-823-277**	116.20
Cannula with $7^1/_2$" Needle for 500mL Volume	401 352	**14-823-278**	124.40

Thermo Scientifc™ Sun-SRi™ 96-Well Polypropylene Microplates

Polypropylene microplates are manufactured from a non-toxic virgin high clarity material

Description	Mfr. No.	Cat. No.	Each
96-Well Microplate 1.2mL	500 837	**03-246-350**	68.23

Supports - Rings

Fisherbrand® Gas Cylinder Support

Keeps cylinders upright and safe

- Nylon strap securely holds 4.5 to 11" diameter (11.4 to 28cm) cylinders upright
- Can be attached to benches up to 2.25" thick (5.7cm), with at least 1" (2.5cm) overhang

Description	Cat. No.	Each
Gas Cylinder Support	**10-595Ω**	83.40

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Purifiers/Traps

Thermo Scientific™ Super Clean™ Cartridge Filter Baseplates/Manifolds

Type	For Gas	For Use with	Mfr. No.	Cat. No.	Each
Single Base	Carrier Gas Only	Triple Filter	60180-814	**60-180-814**	372.50
Dual Base	Air and Fuel Gas	2 x Combi Filter	60180-815	**60-180-815**	680.00
Triple Base	Carrier, Make-up and Fuel Gas	Triple and 2 x Combi Filter	60180-817	**60-180-817**	853.00

Thermo Scientific™ Super Clean™ Cartridge Filters

Replace easily without tools

Description	Capacity	Mfr. No.	Cat. No.	Each
For Inert Carrier				
1 Cartridge Kit (1 x Triple), He Preconditioned for GCMS	1.8g H_2O, 500mL O_2, 4g HCs	60180-830	**60180830**	549.50
1 Cartridge Kit (1 x Indicating Triple), He Preconditioned for GCMS	1.8g H_2O, 500mL O_2, 4g HCs	60180-829	**60180829**	684.50
Indicating Triple (H_20, O_2, HCs)	1.8g H_2O/500mL O_2/4g HCs	60180-824	**60180824**	268.50
Indicating Triple (H_2O, O_2, HCs), He Preconditioned for GCMS	1.8g H_2O/500mL O_2/4g HCs	60180-825	**60180825**	325.00
Oxygen Cartridge Filter with Indicator	1000mL O_2	60180-820	**601-808-20**	235.00
For Inert; Air; H_2				
Hydrocarbon Cartridge Filter	12g (n-butane)	60180-821	**601-808-21**	238.00
High Flow Cartridge Pack (2 x HC), No indicator, for LCMS	12g (n-butane) Hydrocarbons	60180-839	**60180839**	429.50
High Flow Cartridge Pack (2 x HC), with indicator, for LCMS	12g (n-butane) Hydrocarbons	60180-840	**60180840**	507.89
Twin HC Filters For High-Flow Base Plate (LC/MS); No Indicator	12g (n-butane) Hydrocarbons	60180-831	**60180831**	945.57
For Inert; Air; H_2, He				
3 Cartridge Kit (1 x Triple + 2 x HC/H_20 Combi Filters)	1.8g H_2O, 500mL O_2, 4g HCs/3.5g H_2O, 6g HCs	60180-828	**60180828**	1409.00
3 Cartridge Pack (1 x Triple + 2 x HC/H_20 Combi Filters)	6g Hydrocarbons	60180-822	**60180822**	691.00
4 Cartridge Kit (1 x O_2, 1 x H_20 + 2 x HC Filters)	1000mL O_2/7.2g H_2O/12g (n-butane) Hydrocarbons	60180-827	**60180827**	1815.27
4 Cartridge Pack (1 x O_2, 1 x H_20 + 2 x HC Filters)	1000mL O_2/7.2g H_2O/12g (n-butane) Hydrocarbons	60180-823	**60180823**	737.49
High Flow Cartridge Pack (2 x H_2O), with indicator, for LCMS	7.2g H_2O	60180-841	**60180841**	400.00
High Flow Twin H_2O Filters (Air Generators)	7.2g H_2O	60180-832	**60180832**	974.78
Indicating Combi (HC/H_2O)	3.5g H_2O/6g HCs	60180-826	**60180826**	262.50
Moisture Cartridge Filter with Indicator	7.2g H_2O	60180-819	**601-808-19**	235.00

Regulators

Fisherbrand® Heavy-Duty Single-Stage Regulators

Ideal for applications requiring short intervals of use

- For noncorrosive gases

For Gas	Max. Inlet Pressure psig (MPa)	Delivery Pressure Range psig (MPa)	Outlet Gauge Pressure Range psig (MPa)	CGA	Cat. No.	Each
Acetylene	400 (2.75)	2–15 (0.0138–0.10)	2–30 (0.0276–0.207)	510	**10-575-106**	761.54
Air	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	346	**10-575-108**	822.68
	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	590	**10-575-109**	822.68
Argon, Nitrogen, Helium	3000 (27.6)	2–15 (0.0138–0.10)	2–30 (0.0276–0.207)	580	**10-575-110**	861.24
	3000 (27.6)	5–125 (0.0345–0.862)	2–200 (0.0276–1.38)	580	**10-575-111**	778.23
Carbon Dioxide	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	320	**10-575-112**	806.61
	3000 (27.6)	5–125 (0.0345–0.862)	2–200 (0.0276–1.38)	320	**10-575-113**	798.58
Hydrogen	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	350	**10-575-114**	813.50
	3000 (27.6)	5–125 (0.0345–0.862)	2–200 (0.0276–1.38)	350	**10-575-115**	791.08
Oxygen	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	540	**10-575-116**	797.51
	3000 (27.6)	5–125 (0.0345–0.862)	2–200 (0.0276–1.38)	540	**10-575-117**	797.51
Propane	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	510	**10-575-118**	818.00
Nitrous Oxide	3000 (27.6)	2–40 (0.0138–0.276)	2–60 (0.0276–0.414)	326	**10-575-119**	826.00

Fisherbrand® High-Pressure Single-Stage Regulators

Safe, accurate delivery pressure control for noncorrosive gases

For Gas	Delivery Pressure Range psig (MPa)	Max. Outlet Gauge Pressure psig (MPa)	CGA	Cat. No.	Each
Hydrogen	100–1500 (0.689–10.3)	2000 (13.7)	350	**10-575-120**	1290.80
Nitrogen	100–1500 (0.689–10.3)	2000 (13.7)	580	**10-575-121**	1616.44
	200–3000 (1.38–20.7)	4000 (27.5)	580	**10-575-122**	1659.29

Fisherbrand® High-Purity Brass Single-Stage Regulators

Made from materials that will not outgas impurities into the gas stream — for noncorrosive gases

ORDERING INFORMATION:
Call Fisher Scientific Customer Service to order. Be sure to specify cylinder outlet connection (CGA) at time of order.

Delivery Pressure Range psi (MPa)	Max. Inlet Pressure psig (MPa)	Outlet Gauge Pressure Range psig (MPa)	Cat. No.	Each
2–40 (0.0138–0.276)	3000 (20.7)	30"Hg 0–60 (0–0.21)	**10-575-123**	667.50
5–125 (0.0345–0.862)	3000 (20.7)	30"Hg 0–200 (0–0.21)	**10-575-124**	645.32
10–300 (0.0690–2.07)	3000 (20.7)	10–400 (0.069–2.76)	**10-575-125**	664.68
20–500 (0.138–3.45)	3000 (20.7)	60–600 (0.414–4.14)	**10-575-126**	667.50

Fisherbrand® High-Purity Stainless-Steel Single-Stage Regulators

For semi-corrosive gases

ORDERING INFORMATION:
Call Fisher Scientific Customer Service to order. Be sure to specify cylinder outlet connection (CGA) at time of order.

Delivery Pressure Range psig (MPa)	Max. Inlet Pressure psig (MPa)	Outlet Gauge Pressure Range psig (MPa)	Cat. No.	Each
2–40 (0.0138–0.276)	3000 (27.6)	30"Hg 0–60 (0–0.21)	**10-575-127**	2038.49
5–125 (0.0345–0.862)	3000 (27.6)	30"Hg 0–200 (0–0.21)	**10-575-128**	2040.64
10–300 (0.0690–2.068)	3000 (27.6)	10–400 (0.069–2.76)	**10-575-129**	2043.85
20–500 (0.138–3.45)	3000 (27.6)	60–600 (0.414–4.14)	**10-575-130**	1699.99

Fisherbrand® Multistage Cylinder Regulators

For noncorrosive gases

For	Max. Inlet Pressure psig (MPa)	Delivery Pressure Range psig (MPa)	Outlet Gauge Pressure Range psig (MPa)	CGA	Cat. No.	Each
Acetylene	400 (2.76)	1–15 (0.006–0.1)	2–30 (0.0138–0.20)	510	**10-575-131**	690.00
	400 (2.76)	1–15 (0.006–0.1)	2–30 (0.0138–0.20)	300	**10-575-132**	687.17
Air, Breathing	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	346	**10-575-133**	784.65
Air, Industrial	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	590	**10-575-134**	835.54
Argon, Nitrogen, Helium	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	580	**10-575-135**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	580	**10-575-136**	687.17
	3000 (20.7)	1–250 (0.006–1.7)	5–400 (0.0345–2.76)	580	**10-575-137**	687.17
	3000 (20.7)	1–325 (0.006–2.24)	5–400 (0.0345–2.76)	580	**10-575-138**	687.17
Carbon Dioxide	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	320	**10-575-139**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	320	**10-575-140**	687.18
Hydrogen	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	350	**10-575-141**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	350	**10-575-142**	687.17
Nitrous Oxide	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	326	**10-575-143**	886.42
Oxygen	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	540	**10-575-144**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	540	**10-575-145**	687.17
	3000 (20.7)	1–325 (0.006–2.24)	5–400 (0.0345–2.76)	540	**10-575-146**	687.17
Oxygen Mix, Medical†	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	280	**10-575-147**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	280	**10-575-148**	687.17
	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	500	**10-575-149**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	500	**10-575-150**	687.17
Oxygen Mix, Industrial	3000 (20.7)	1–40 (0.006–0.276)	2–60 (0.0138–0.41)	296	**10-575-151**	687.17
	3000 (20.7)	1–125 (0.006–0.8)	5–200 (0.0345–1.37)	296	**10-575-152**	687.17

† Includes O_2 and CO_2 (with $CO_2 < 7\%$).

Gas Generators

domnick hunter™ Hydrogen Generators

Research-grade hydrogen gas on demand

ORDERING INFORMATION:
Additional cartridges and bags sold separately.
Connector: 0.12" Swagelok™.

Model	Outlet Flow	Power Rating	Cat. No.	Each
20H	160cc/min.	125w	**14-950-9**	7843.37
40H	250cc/min.	185w	**14-950-10**	9890.00
60H	500cc/min.	235w	**14-950-11**	12,830.00

domnick hunter™ Ultra-High Purity Hydrogen Generators for GC and GC/MS

Ultra-high purity, low maintenance generators supply hydrogen for GC and GC/MS carrier gas applications, plus all commonly used combustion detectors used routinely in GC

Model	Outlet Flow	Power Rating	Mfr. No.	Cat. No.	Each
20H-MD	160mL/min.	170w	20H-MD	**1495024**	9564.90
40H-MD	250mL/min.	230w	40H-MD	**14-950-524**	12,530.00
60H-MD	500mL/min.	320w	60H-MD	**1495026**	14,580.00

domnick hunter™ LC/MS Nitrogen Gas Generators

Specifically designed to meet the gas flow, purity and pressure requirements of modern LC/MS instruments

Model	Outlet Flow	Oxygen Output	Inlet/Outlet Connections	L × W × H	Weight	Electrical Reqts.	Mfr. No.	Cat. No.	Each
With Integral Compressor									
LCMS20-1W	20L/min.	1%	1/4" BSP	$32^1/_2 \times 20 \times 27^3/_4$" (82.6 × 51 × 70.5cm)	284 lb. (129kg)	110V 60Hz	LCMS20-1W	**14-950-514**	18,168.54
LCMS30-1W	30L/min.	2%	1/4" BSP	$32^1/_2 \times 20 \times 27^3/_4$" (82.6 × 51 × 70.5cm)	284 lb. (129kg)	110V 60Hz	LCMS30-0E	**14-950-518**	20,120.00

domnick hunter™ Stackable Zero-Air Generators

Modular and stackable with domnick hunter hydrogen generators

ORDERING INFORMATION:
UHP-10ZA-S generators measure: 16.7D × 13.4W × 12.8"H (425 × 340 × 325mm).
All other models measure 16.7D × 13.4W × 17.9"H (425 × 340 × 455mm).

Flowrate	Elec. Reqts.	Inlet/outlet Connections	Mfr. No.	Cat. No.	Each
1L/min.	115V	$^1/_8$"	UHP-10ZAW-S-W	**14-950-600**	2291.26
3.5L/min.	115V	$^1/_8$"	UHP-35ZAW-S-W	**14-950-602**	5550.00
	230V		UHP-35ZAW-S-E	**14-950-603**	5594.95
5.0L/min.	230V	$^1/_4$"	UHP-50ZAW-S-E	**14-950-605**	7390.32
7.5L/min.	115V	$^1/_4$"	UHP-75ZAW-S-W	**14-950-606**	9416.47
15L/min.	230V	$^1/_4$"	UHP-150ZAW-S-E	**14-950-609**	11,280.00

domnick hunter™ Pure Air Generator

Improves compressed-air quality

Model	DAS1	DAS2
Outlet Flow	70L/min.	140L/min.
Required Inlet Flow	85L/min.	171L/min.
L × W × H	4 × 12 × 15" (9 × 31 × 38cm)	4 × 12 × 18" (9 × 31 × 47cm)
Weight	18 lb. (8kg)	22 lb. (10kg)
Mfr. No.	DAS1	DAS2
Cat. No.	**14-951-0**	**14-951-1**
Each	1718.96	1922.00

Upchurch Scientific™ Micro-Metering and Micro-Splitter Valves

Offer the ability to more finely control fluid flow rates

Material	Pressure (psi)	Volume	Components	Mfr. No.	Cat. No.	Each
Micro-Metering Valves						
Multiple/ Other	800	7.7µL Internal	P-200, P-235	P 445	**05-700-360**	62.10
Multiple/ Other	800	7.2µL Internal	F-120 Fingertights	P 446	**05-700-361**	70.80
Multiple/ Other	800	7.7µL Internal	P-300, P-335	P-447	**05-701-389**	62.30
Micro-Splitter Valves						
PEEK™	800	4.1µL Fully Open	P-200, P-235 fittings	P 450	**05-700-383**	75.80
PEEK	800	2.8µL Fully Open	F-120 Fingertights	P 451	**05-700-384**	78.80
Multiple/ Other	4000	2.8µL Fully Open	F-120 Fingertights	P-460S	**05-701-401**	156.30

† *Includes O_2 and CO_2 (with $CO_2 < 7\%$).*

Upchurch Scientific™ Back Pressure Regulators and Accessories

Placing back pressure regulator (usually 500 - 1000 psi) between pump and injector can enhance pump's performance

Description	Mfr. No.	Cat. No.	Each
Cartridge; Pressure: 40psi; Volume: 125µL swept	P 761	**05-704-210**	79.20
Cartridge; Pressure: 75psi; Volume: 125µL swept	P 762	**05-704-211**	79.30
Cartridge; Pressure: 100psi; Volume: 125µL swept	P 763	**05-704-212**	79.30
Cartridge; Pressure: 250psi; Volume: 95µL swept	P 764	**05-704-213**	79.20
Cartridge; Pressure: 500psi; Volume: 89µL swept	P 765	**05-704-214**	81.10
Assembly; PEEK™; With P-761 cartridge; Pressure: 40psi	P 785	**05-704-215**	117.80
Assembly; PEEK; With P-762 cartridge; Pressure: 75psi	P 786	**05-704-216**	117.80
Assembly; PEEK; With P-763 cartridge; Pressure: 100psi	P 787	**05-704-217**	117.80
Assembly; PEEK; With P-764 cartridge; Pressure: 250psi	P 788	**05-704-218**	117.80
Assembly; PEEK; With P-765 cartridge; Pressure: 500psi	P 789	**05-704-219**	117.80
Cartridge Holder; Black; Thread port configuration: 1/4 to 28 flat bottom	P-465	**05-701-361**	77.90
Assembly; PEEK; Pressure: 5psi	P-790	**05-704-237**	117.10
Assembly; PEEK; Pressure: 20psi	P-791	**05-704-238**	117.80
Assembly; Stainless steel; With P-761 cartridge; Pressure: 40psi	U 605	**05-704-220**	141.90
Assembly; Stainless steel; With P-763 cartridge; Pressure: 100psi	U 607	**05-704-222**	126.80
Assembly; Stainless steel; With P-765 cartridge; Pressure: 500psi	U 609	**05-704-224**	152.90
Cartridge Holder, High pressure; For 1/16 in. OD tubing	U-469	**05-704-179**	112.70
Cartridge; Pressure: 750psi; Volume: 87µL swept	P-795	**05-701-351**	81.10
Cartridge; Pressure: 1000psi; Volume: 83µL swept	P-796	**05-701-352**	81.10

ON THE WEB...

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Clamps and Supports

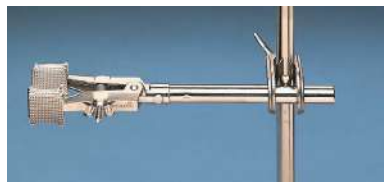
Clamps

Castaloy

Castaloy™ Two-Prong Extension Clamps

Flat, vinyl- or fiberglass-covered jaws

Hold beakers and flasks firmly at any angle, variable distance from support.



05-769-4Q with fiberglass sleeves (included) and 14-666-18Q clamp holder (not supplied).

- One jaw is fixed, other opens against a stainless-steel compression spring
- Opening is gradual to maximum angle, without binding
- Noncorrosive
- Easy-to-clean clamps are nickel-plated zinc with seamless brass extension tube, brass compressing screw, and pivot pin
- Without clamp holder

INCLUDES:
Vinyl and fiberglass sleeves, extension arm O.D.: 0.43" (1.1cm)

NOTES: Castaloy clamps and holders should not be subjected to direct flame or other intense heat sources. At continuous temperatures in excess of 150°C (302°F), some significant distortion can occur. Fiberglass sleeves are recommended for all applications above 100°C (212°F).

Maximum Grip Size	Overall Length	Extension Arm	Extension Arm O.D.	Cat. No	Each
1.5" (38mm)	8" (20cm)	4.25" (11cm)	0.43" (1.1cm)	**05-769-4Q**	38.04
2.5" (64mm)	9" (23cm)	5.12" (13cm)	0.43" (1.1cm)	**05-769-3Q**	41.09

Castaloy™ Three-Prong Extension Clamps

Hold irregular shapes at any angle, surely and safely

- Two separate adjustment screws ensure even, precise pressure on glass and minimize chance of breakage
- Clamps are easily adjustable to vary holding angle, distance from stand
- Without clamp holder

05-769-7Q with vinyl sleeves (included) and 14-666-18Q holder (sold separately)

ORDERING INFORMATION: Replacement sleeves are available; contact your customer service representative for details.

INCLUDES: Fiberglass and vinyl sleeves

Maximum Grip Size	Overall Length	Extension Arm	Extension Arm O.D.	Cat. No.	Each
1" (25mm)	6.5" (17cm)	4.25" (11cm)	0.31" (0.8cm)	**05-769-6Q**	45.30
2.25" (57mm)	8.75" (22cm)	5.12" (13cm)	0.43" (1.1cm)	**05-769-7Q**	53.70
3.5 " (89mm)	10.5" (27cm)	6" (15cm)	0.50" (1.3cm)	**05-769-8Q**	69.90

Castaloy™ Adjustable-Angle Clamps

Grip rods up to 0.75" (19mm) diameter

- Holding angle of jaw is adjustable, locked with a wingnut
- Wingnut also allows length adjustment

05-769Q with vinyl sleeves

Two-Prong Flat Jaws

- For test tubes

Three-Prong Jaws

- For irregular shapes

ORDERING INFORMATION:
Replacement sleeves are available online.

INCLUDES: Vinyl and fiberglass sleeves

Max. Grip Size	Jaw Type	Length	Mfr. No.	Cat. No.	Each
2.25" (57mm)	Three-prong	0.62" (16mm)	00628Q	**05-769Q**	55.61
1.50" (38mm)	Flat	0.5" (13mm)	00189Q	**05-769-5Q**	38.38

Castaloy™ Fixed-Angle Clamps

One-piece clamp/holder with fixed jaw angle

Use for snug vertical alignment of burets, thermometers and reflux condensers.

- Flat jaws or three-prong grip
- Grip rods up to 0.75" (19mm) diameter

05-769-2Q with vinyl sleeves

ORDERING INFORMATION:
Replacement sleeves are available online.

INCLUDES: Vinyl and fiberglass sleeves

Maximum Grip Size	Jaw Type	Cat. No.	Each
2.25" (57mm)	Three-prong	**05-769-2Q**	44.04

Castaloy™ Clamp Jumbo Holder

Safe for heavy loads

- Grips in variety of positions
- Grips rods up to 0.87" (22mm) diameter
- Holds flat shelf or panel to 0.75" (19mm) thick
- Made of diecast aluminum
- With 45° angle thumbscrews

05-757Q

Description	Mfr. No.	Cat. No.	Each
Jumbo Clamp Holder	00196Q	**05-757Q**	35.53

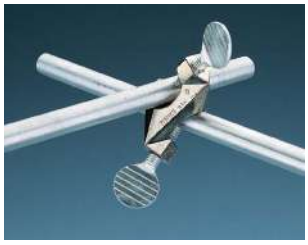
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Castaloy™ Clamp Regular Holder

Attaches clamp at right angles

- With 45° angle thumbscrews
- Grips rods up to 0.75" (19mm) diameter



05-754Q

Description	Mfr. No.	Cat. No.	Each
Regular Clamp Holder	00193Q	**05-754Q**	25.70

Castaloy™ Clamp Swivel Holder

Tilt clamp at any angle in parallel planes

- Holder will not fall apart when setscrew is loosened to permit one end to swivel
- With 45° angle thumbscrews
- Grips rods up to 0.75" (19mm) diameter

05-762Q

Description	Mfr. No.	Cat. No.	Each
Swivel Clamp Holder	00197Q	**05-762Q**	32.51

Castaloy™ Double-Buret Clamp

Holds two burets from micro to 100mL size

Simply compress scissor-like mechanism, insert buret and release.

05-779Q

- Numbers and graduations on burets are easy to read
- For height adjustments, just recompress mechanism, slide buret up or down and release
- Clamp unit attaches to standard support rod with convenient hook clamp
- Wingnut for tightening on front for easy access

ALERTS:
Castaloy clamps and holders should not be subjected to direct flame or other intense heat sources. At continuous temperatures in excess of 302°F (150°C), some significant distortion can occur. Fiberglass sleeves are recommended for all applications above 212°F (100°C).

Max. Buret O.D.	Cat. No.	Each
0.70" (18mm)	**05-779Q**	69.51

Castaloy™ Hosecock Clamp

Fine-machined adjustment screw for very accurate regulation of flow

- Threaded keeper screw on side of clamp can be raised to allow easy positioning of tubing, then screwed back into base of clamp
- For tubing up to 0.75" (19mm) O.D.
- Concave lower bearing surface, convex upper which reduces amount of pressure required for complete closure

05-847Q

Type	Cat. No.	Each
Regular	**05-847Q**	25.82

Castaloy™ Chain and Electrode Support Clamps

For holding bottles, beakers and other large objects

Chain Clamp

- Holds 3 to 6.5" (76 to 165mm) bottles and large objects
- Fast, sure way to secure large equipment to rods and lattices
- Loop steel chain around object; attach to hook on movable slide; tighten slide with large, nonslip knob
- Holds equipment firmly in place at any angle, variable distance from support
- Arm is 6" (15cm) long and 0.5" (13mm) diameter

05-745Q

Electrode Support Clamp

- Permits suspension of electrodes over beaker for potentiometric titrations
- Includes 0.25" (6.4mm) diameter support rod mounted at right angle
- Secures any electrode holder at desired level
- Grips support rods up to 0.687" (18mm) diameter
- Resists corrosion

13-640-282Q shown with 13-636-8Q electrode holder (not included).

Type	For Use with	Cat. No.	Each
Chain clamp	----	**05-745Q**	62.10
Support clamp and rod	Support rods up to 0.68" diameter	**13-640-282Q**	66.00

WARNING

Castaloy clamps and holders should not be subjected to direct flame or other intense heat sources. At continuous temperatures in excess of 150° C (302° F), some significant distortion can occur. Fiberglass sleeves are recommended for all applications above 100° C (212° F)

Fisherbrand® Plastic Joint Clips

Made of plastic for use on $ glass joints

- Color coded for easy size identification
- Don't corrode
- Will not scratch glass

Plastic Joint Clips

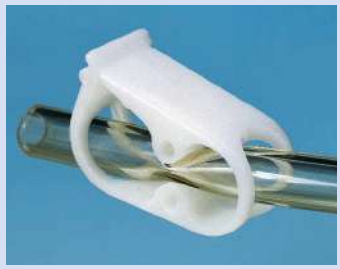
For Joint Size	Color	Mfr. No.	Cat. No.	Each
10	Green	14955251	**14-955-251**	41.80
12	Purple	14955252	**14-955-252**	40.38
14	Yellow	14955253	**14-955-253**	41.40
19	Blue	14955254	**14-955-254**	41.40
24	Green	14955255	**14-955-255**	43.85
29	Red	14955256	**14-955-256**	45.90
34	Orange	14955257	**14-955-257**	49.00
40	Yellow	14955258	**14-955-258**	50.71
45	Brown	14955259	**14-955-259**	58.10

Clamps-Tubing

Fisherbrand® Polypropylene Clamp with Flow Control

Regulates flow through tubing from fully open to closed

- Fits 0.12 to 0.5" (3.2 to 13mm) O.D. tubing
- Molded white polypropylene construction
- Autoclavable
- With 15-position control
- Will not distort, rust or corrode



05-869

Description	Cat. No.	Pack of 12	Case of 12 Packs
Clamp with Flow Control	**05-869**	14.77	137.43

Thermo Scientific™ Nalgene™ Pinch Clamp

Accommodates a wide range of tubing

05835B

- One-piece molded, plastic — won't corrode or deform, and no sharp edges to cut fingers or tubing on
- Fits tubing with O.D. 1/4 to 7/16"
- Autoclavable

For Tubing O.D.	Mfr. No.	Cat. No.	Pack of 12	Case of 6 Pk.
1/4 to 7/16" (6 to 11mm)	6165-0002	**05835B**	34.85	140.80

Bel-Art™ Scienceware™ Acetal Plastic Screw Clamp

Complete ON/OFF and fine control with enough accuracy to replace stopcocks in many applications

- Installs without disconnecting tubing or interrupting operation
- Accepts flexible tubing up to 14mm (0.5") O.D
- Resistant to acids, alkalis and organic solvents
- Autoclavable

05-830

Description	Mfr. No.	Cat. No.	Pack of 3
Acetal Screw Clamp	18212 0000	**05-830**	26.63

Bel-Art™ Scienceware™ Acetal Tubing Clamp

Can be operated with one hand, has a positive lock and springs open when released

- Serrated jaws 1.06" long (27mm) provide secure closure on tubing such as catheter tubes 0.03" (0.82mm) wall or thinner
- Slides over tubing at any point for easy installation and may be left open for convenient storage without constricting flow
- Overall length, 2.31" (59mm)

05-832

Description	Mfr. No.	Cat. No.	Pack of 12	Case of 6 Packs
Acetal Tubing Clamp	18218 0000	**05-832**	32.55	163.30

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Bel-Art™ Scienceware™ Swing Jaw™ Tubing Clamps

Provide nonslip closures for flexible tubing

- Made of zinc-plated steel
- Knurled adjusting nut bears on a swinging jaw which permits full opening without removal
- Removable from tubing without disconnecting apparatus
- Smooth bearing surfaces will not damage tubing; tubing cannot slip out of clamp
- Strong enough to use with heavy wall vacuum lines

05-834-5

For Tubing Max. O.D.	Mfr. No.	Cat. No.	Pack of 3	Case of
10mm (3/8")	18220 0000	**05-833**	90.70	12 Pk./ 952.50
15mm (1/2")	18221 0000	**05-834-3**	----	36/801.84
20mm (3/4")	18222 0000	**05-834-5**	----	36/859.00

Day Pinchcock

Can be put on or removed without disconnecting apparatus

- Tough 302 stainless steel
- Holds flexible tubing up to 0.37" (9.5mm) O.D.

05-867

Description	Length	Mfr. No.	Cat. No.	Pack of 12
302 Stainless Steel Wire	2.62" (67mm)	H-8630	**05-867**	54.20

Hoffman Tubing Clamps

Regulate flow from fully open to closed

- For flexible tubing
- Nickel-plated brass
- Won't rust
- Lower jaw is either fixed or swivel-mounted for easy insertion of tubing without disconnecting apparatus

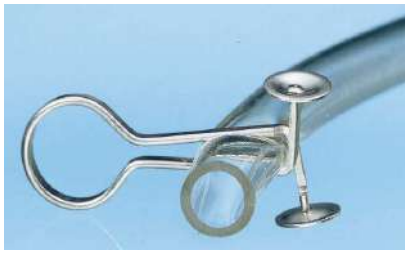
05-871 Series

Jaw Opening Max. Height	Max. Width	Cat. No.	Pack of 10
Swivel Jaw			
0-0.62" (0 to 16mm)	0.75" (19mm)	**05-871A**	80.20
0-0.75" (0 to 19mm)	1" (25mm)	**05-871B**	67.80
Fixed Jaw			
0-0.62" (0 to 16mm)	0.75" (19mm)	**05-870A**	83.20
0-0.75" (0 to 19mm)	1" (25mm)	**05-870B**	74.70

Flatjaw Pinchcocks

One-piece rust resitant brass clamp

- Nickel-plated
- Clamp flexible tubing up to 0.62" (16mm)



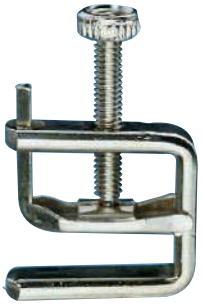
05-850B

Size	Clamp Length	Jaw Opening	Mfr. No.	Cat. No.	Each
Small	2.25" (57mm)	0.38" (10mm)	H 8600	**05-850A**	47.80
Medium	2.75" (70mm)	0.5" (13mm)	H-8610	**22-309-557**	64.30
Large	3.25" (82mm)	0.63" (16mm)	H 8620	**05-850B**	46.50

Hoffman Open-Side Tubing Clamps

For flow regulation in flexible tubing

- One side is open for easy insertion of tubing without disassembly
- Nickel-plated brass
- Resist corrosion
- Won't rust



05-875B

Opening	Cat. No.	Pack of 10
0.5 to 0.75" (13 to 19mm)	**05-875A**	75.80
0.62 to 1" (16 to 25mm)	**05-875B**	89.50

Stant High-Pressure Clamps

For flexible tubing

- Seal with only 10" lb. (1.13 Newton-m) torque
- Positive 360° sealing
- Adjust easily with 0.25" (6.3mm) slotted screw
- Stainless-steel band and housing

14-198-5B

For Tubing O.D.	Cat. No.	Pack of 10
0.25 to 0.62" (6.4 to 15.9mm)	**14-198-5A**	51.11
0.31 to 0.87" (7.9 to 22.2mm)	**14-198-5B**	43.42

LOOKING FOR MORE...?

Looking for Tubing?
Fisherbrand tubing can be found in the Tubing section.

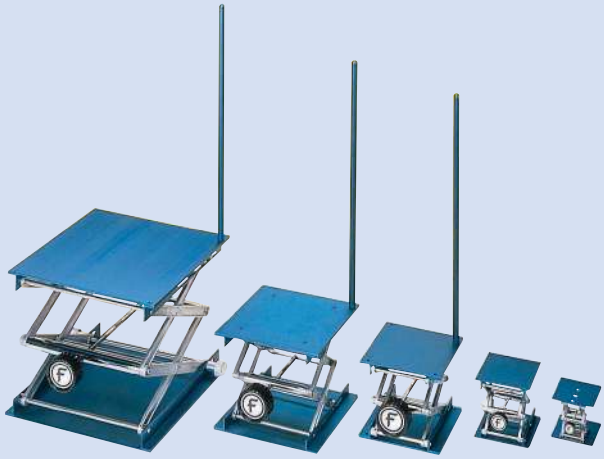
Supports

Lab Jacks

Fisherbrand® Lab-Jacks™

Nonsparking anodized aluminum plates for maximum safety in the lab

For supporting hotplates, baths, glassware and other items requiring stable regulation



14-673-53, -52, -51, -50, and -15

- 14-673-51, 14-673-52, 14-673-53 feature threaded holes to accommodate an 18.87" (48cm) long aluminum rod for mounting ring stands and other lab apparatus

ORDERING INFORMATION:
Rod available separately; contact your customer service representative.

Plate L × W	Max. Load	Max. Height	Cat. No.	Each
3 × 3" (7.6 × 7.6cm)	8.8 lb. (4kg)	3.5" (8.2cm)	**14-673-15**	263.57
4 × 4" (10 × 10cm)	30 lb. (14kg)	5.5" (14cm)	**14-673-50**	244.05
6 × 6" (15 × 15cm)	59 lb. (27kg)	11" (27cm)	**14-673-51**	262.00
8 × 8" (20 × 20cm)	79 lb. (36kg)	11" (27cm)	**14-673-52**	307.05
12 × 12" (30 × 30cm)	143 lb. (65kg)	19" (48cm)	**14-673-53**	688.03

Bochem™ Stainless-Steel Support Jacks from BrandTech™

Ideal for use in a wide variety of environments including fume hoods, solution baths, marine and industrial labs

Bochem Support Jacks are available in a variety of sizes and load capacities to support mini flasks, jars, columns, large baths, magnetic stirrers, heaters and more. When used in biological laboratories, their highly polished finish, autoclavability and resistance to sanitizing agents help reduce cross-contamination risks.

03-840-134

- Constructed of corrosion-resistant type 304 stainless steel
- Stainless lift mechanism with POM rollers provides long service life, even in corrosive conditions
- Rugged construction provides exceptional stability, even in the larger sizes
- Hand-operated height adjustment wheel is made of phenolic resin
- Maxi-Lift jacks offer 30% more height because of an amplified construction
- Models are also available with anodized or epoxy-coated decks, all with stainless-steel lifts
- Ratchet handle is included for larger jacks

WARRANTY: Two years

Plate L x W	Mfr. No.	Cat. No.	Each
10 × 10cm	B11115	**03-840-132**	256.00
16 × 13cm	B11120	**03-840-133**	273.00
20 × 20cm	B11130	**03-840-134**	336.00
24 × 24cm	B11140	**03-840-135**	357.00
30 × 30cm	B11180	**03-840-136**	1747.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Funnels

Fisher Scientific™ Four-Funnel Support Arm

Clamps to rods and lattices

- Wooden support
- With metal clamp and setscrew for firm mounting
- Support holes are slotted for easy manipulation of funnels
- End holes have 1.12" (2.8cm) diameter
- Center holes have 0.62" (1.6cm) diameter
- All holes tapered at 60° angle

14-740Ω

ORDERING INFORMATION:
Overall dimensions: 13.75L × 2.37W × 0.56"H (35 × 6 × 1.4cm).

Description	Cat. No.	Each
Four-Funnel Support Arm, 60° angled holes	**14-740Ω**	44.25

Fisherbrand® Six-Funnel Support

Slotted wooden support allows easy mounting and removing

- Adjustable for various funnel lengths from 5.5 to 10" (14 to 25cm)
- With no posts projecting above support to interfere

ORDERING INFORMATION:
36L × 4.75W × 5.5 to 10"H (91 × 12 × 14 to 25cm). **14-735**

Description	Cat. No.	Each
Six-Funnel Support	**14-735**	256.20

Erlenmeyer Flask Clamps for Sartorius™ Certomat™ Shakers

Available in stainless steel or plastic for a variety of flask sizes

For Trays EU (420 × 420 mm) and FU (800 × 420 mm).

14-559-158

Flask Capacity	Max. Capacity for Tray	Mfr. No.	Cat. No.	Each
Stainless Steel				
25mL	49/98	BBI-8854505	**14-559-153**	18.90
50mL	48/96	BBI-8854513	**14-559-154**	18.90
100mL	24/48	BBI-8854521	**14-559-155**	21.00
250mL	17/39	BBI-8854556	**14-559-156**	23.35
500mL	12/26	BBI-8854572	**14-559-158**	34.45
1000mL	8/17	BBI-8854599	**14-559-160**	35.02
2000mL	4/9	BBI-8854610	**14-559-162**	43.75
Plastic				
250mL	20/40	BBI-8854711	**14-559-167**	21.63
Other				
3000mL, Corning	NA	BBI-8854580	**14-559-159**	120.30
Terminal	NA	BBI-8855430	**14-559-171**	94.50

Lattice

Fisher Scientific™ Flexaframe™ Vertical Mounting Supports

Great for glassware setups, etc., in small laboratories

14-666-5Ω

Contents listed in "Contents of Flexaframe Sets" chart.

- With wide, 18" (46cm) base extending out from lattice for maximum stability
- Base can be permanently secured to benchtop with screws
- Frame is 24L × 24"H (61 × 61cm)

Description	Cat. No.	Each
Vertical Mounting Supports Sets	**14-666-5Ω**	454.98

Fisher Scientific™ Flexaframe™ Horizontal or Vertical Mounting Supports

Can be assembled as 48L × 24"H (122 × 61cm) horizontal frame or 24L × 48"H (61 × 122cm) vertical

14-666-6Ω

Contents listed in "Contents of Flexaframe Sets" chart.

- Base is 18" wide (46cm)

Description	Cat. No.	Each
Horizontal or Vertical Mounting Supports Sets	**14-666-6Ω**	591.70

Fisher Scientific™ Flexaframe™ Large-Capacity Supports

Excellent for complex glassware setups

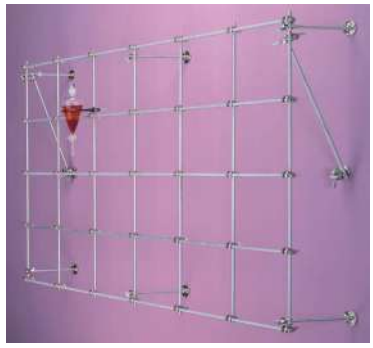
- 48 × 48" (122 × 122cm) frame
- Base is 18" wide (46cm) for stability

14-666-7Q

Description	Cat. No.	Each
Large-Capacity Supports Set	14-666-7Q	901.06

Fisher Scientific™ Flexaframe™ Ultimate Versatility Supports

Can be used vertically or horizontally



14-666-8Q

Contents listed in "Contents of Flexaframe Sets" chart.

- Measures 48L × 72"H (122 × 183cm)
- Apparatus mountable on either side of frame

INCLUDES: Six 12" (31cm) rods and feet for securing frame to wall

Description	Cat. No.	Each
Ultimate Versatility Supports Set	14-666-8Q	1277.71

Contents of Flexaframe Sets

Contents	Set 1	Set 2	Set 3	Set 4
Rods				
2" (5.1cm)	8	8	10	6
12" (31cm)	----	----	----	6
18" (46cm)	2	2	3	----
24" (61cm)	8	5	----	2
36" (91cm)	----	2	2	----
48" (122cm)	----	4	10	7
72" (183cm)	----	----	----	5
Hook Connectors	22	26	42	49
Supporting Feet	4	4	6	8
End-to-End Connectors	----	----	----	----

Flexaframe™ Support Rods for Custom Frames

Hard aluminum rods exactly 0.5" diameter (13mm) for smooth fit with Flexaframe lattice

- Corrosion resistant

ORDERING INFORMATION:
Available in lengths from 2 to 96" (5.1 to 244cm).

14-666-10GQ

Length	Cat. No.	Each
12" (31cm)	14-666-10GQ	18.93
18" (46cm)	14-666-10BQ	22.17
24" (61cm)	14-666-10CQ	25.75
36" (91cm)	14-666-10DQ	29.07
48" (122cm)	14-666-10EQ	45.89
72" (183cm)	14-666-10FQ	55.80
96" (244cm)	14-666-10HQ	73.41

Flexaframe™ Foot Plate

Mounts lattice permanently

- Foot plate holds Flexaframe poles
- Secures them to floors, walls and tables with screws
- Made of Castaloy™ metal

14-666-25Q

Description	Cat. No.	Each
Foot plate	14-666-25Q	26.04

Flexaframe™ Castaloy™ Hook Connector

Locks two Flexframe rods at a 90° angle

- Can't slip
- Install without disassembling frame
- Supplied with Flexframe sets

14-666-18Q

Description	Cat. No.	Each
Hook connector	14-666-18Q	30.40

Flexaframe™ Connector for Rod Ends

Holds Flexaframe rods firmly at 90° angle

- 0.5" diameter (13mm) holes carefully sized to eliminate play
- Castaloy™ metal

14-666-20Q

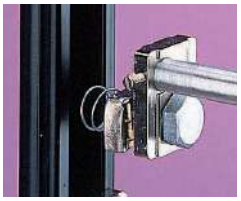
Description	Cat. No.	Each
Connectors for Rod Ends	14-666-20Q	17.07

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Superflex™ Connector

Special connector fastens Flexaframe™ rods to steel channels, loosens and slides up or down for easily adjusting rod position.



14-666-125Q

Description	Cat. No.	Each
Connector	14-666-125Q	22.22

Rings

Fisherbrand® Cast-Iron Rings

Cast-iron construction prevents breakage under normal use

- Sturdy 0.01" (7.9mm) setscrew in integral clamp locks ring tightly to support stands, lattices, etc.
- Ring center is standard 4.5" (11cm) from support rod center
- 2" (51mm) size ring has lugs for holding crucibles

14-050CQ

O.D.	I.D.	Cat. No.	Each
2" (51mm)	1.43" (36mm)	14-050AQ	25.20
3" (76mm)	2.37" (60mm)	14-050BQ	25.25
4" (100mm)	3.31" (84mm)	14-050CQ	24.65
5" (130mm)	4.25" (110mm)	14-050DQ	31.60

Fisherbrand® Extension Ring Clamps

Shank of extension ring clamps to support rods with clamp holder

Manufactured from steel wire, zinc-plated for corrosion resistance.

14-055C

ORDERING INFORMATION:
Supports can be mounted with 05-754Q or 05-764Q Castaloy™ Clamp Holders.

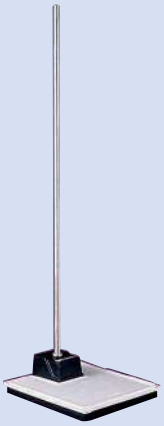
Size	Inside Dia.	Outside Dia.	Mfr. No.	Cat. No.	Each
2"	2.06" (52mm)	2.62" (67mm)	H-18420	14-055A	29.69
3"	2.9" (75mm)	3.5" (89mm)	H-18430	14-055B	35.92
4"	3.9" (100mm)	4.5" (114mm)	H-18440	14-055C	37.54
5"	4.9" (125mm)	5.6" (142mm)	H-18450	14-055D	45.33
6"	6" (152mm)	6.6" (170mm)	H-18460	14-055E	53.14

Stands

Fisherbrand® Heavy-Duty Rectangular Cast-Iron Support

For maximum stability and molded polyethylene tray for spillage protection

- Concentric rings on tray provide convenient guide for positioning containers
- Height to top of rod is 35" (89cm)
- With steel rod and rubber feet to prevent sliding



14-679Q

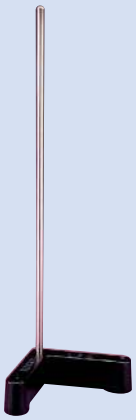
Base L × W	Cat. No.	Each
9.75 × 9.18" (25 × 23cm)	14-679Q	338.00

Fisherbrand® Cast-Iron L-Shaped Base Support Stands

With three mounting holes for supporting groups of equipment concentrated in a small space

- Jackson support
- Three mounting holes tapped for 0.5" (13mm) diameter support rods
- Heavy cast-iron base has two 6.75" (17cm) legs that impart stability
- Bases can be nested for easy storage

INCLUDES:
One 24L × 0.5" dia. (610 × 13mm) nickel-plated steel rod



11-474-207

Description	Cat. No.	Each
L-Shaped Base Support Stand	11-474-207	94.00

Bel-Art™ Scienceware™ Compact Support Stand

Noncorrosive, molded support stand provides a space-saving alternative to stands with cast iron bases

- Stand base 21 × 16cm; footprint conserves bench space
- Base thickness: 4.5cm
- Weighs 1.95kg for stability
- Two rod positions for mounting at center or one end of the base
- Stainless steel mounting rod 9.4mm dia. × 50cm length
- Hex nut secures the rod and prevents it from turning
- Polypropylene base is autoclavable with smooth surface for easy cleaning

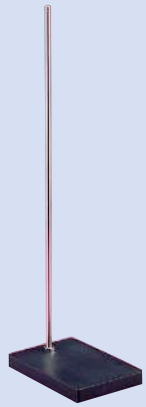
12-947-976

Description	Mfr. No.	Cat. No.	Each
Compact Support Stand	183030005	**12-947-976**	65.70

Fisherbrand® Tough Rectangular Epoxyn™ Stands

With nickel-plated steel support rod

- Base made of Epoxyn solid epoxy resin for maximum resistance to chemicals and mechanical abuse



14-670 Series

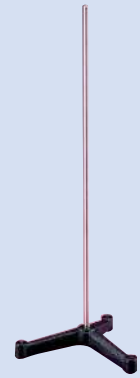
Base Size	Rod Length	Rod Diameter	Cat. No.	Each
4 × 6" (10 × 15cm)	18" (46cm)	0.31" (7.9mm)	**14-670A**	50.50
5 × 8" (13 × 20cm)	20" (51cm)	0.37" (9.5mm)	**14-670B**	68.20
6 × 9" (15 × 23cm)	24" (61cm)	0.43" (11mm)	**14-670C**	76.90
6.5 × 11" (17 × 28cm)	36" (91cm)	0.5" (13mm)	**14-670D**	96.80

Triangles

Fisherbrand® Low-Cost Cast-Iron Tripod-Base Supports

Finished with chemical-resistant, baked, black enamel

- Base is heavy, rugged cast iron for stability
- Support rods and base precisely threaded to eliminate instability



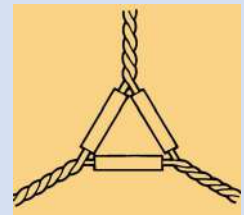
14-675 Series

Rod Length	Rod Diameter	Cat. No.	Each
18" (46cm)	0.31" (7.9mm)	**14-675AQ**	82.90
20" (51cm)	0.37" (9.5mm)	**14-675BQ**	92.20
24" (61cm)	0.43" (11mm)	**14-675CQ**	96.60
36" (91cm)	0.5" (13mm)	**14-675DQ**	81.60

Fisherbrand® Iron-Wire Triangles

For heating crucibles

- With ceramic coverings
- Available in pack of 12



15-280B

Side Length	Cat. No.	Pack of 12
1.5" (38mm)	**15-280A**	147.43
2" (51mm)	**15-280B**	138.99
2.5" (64mm)	**15-280C**	156.88

Tripods

Fisherbrand® Iron-Ring Tripods

Single-size-opening

- Iron ring is supported on three legs to eliminate rocking of support
- 9"H (23cm)

15-300BQ

Ring I.D.	Ring O.D.	Cat. No.	Each
3" (7.6cm)	5" (13cm)	**15-300AQ**	64.30
4.5" (11.4cm)	6" (15cm)	**15-300BQ**	55.88

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Cleaners

Decontaminants

Molecular BioProducts™ DNA AWAY™ Surface Decontaminant

Eliminates unwanted DNA and DNase from glassware and plasticware without affecting subsequent DNA samples

Degrades DNA more quickly and effectively than autoclaving.

- Suitable for gel boxes, pipets, benchtops, thermal cyclers or other apparatus
- Use before performing PCR or working with DNA for a DNA-free work area
- Simply apply the ready-to-use formula to the surface to decontaminate, then wipe dry or rinse clean

21-236-28

Description	Mfr. No.	Cat. No.	Each	Case of
8.5 oz. (250mL) Bottle	7010	**21-236-28**	36.00	12/371.50
Wipes				
Decontaminant Wipes	7008	**14-754-42**	56.80	12/594.00
Individually Wrapped Decontaminant Wipes	7009	**14-754-43**	69.20	16/963.00

Molecular BioProducts™ RNase AWAY™ Surface Decontaminant

Eliminates RNase and DNA from laboratory surfaces

- Reduces dependency on carcinogenic DEPC treatments and saves time needed to bake glassware
- Use on pipets, gel boxes or RNA or DNA prep areas
- Leaves no residue to interfere with gel polymerization or staining
- Chemically stable and nonabrasive
- Contains no strong acids
- Apply to surface to decontaminate, then rinse

21-236-21

Size	Mfr. No.	Cat. No.	Each	Case of
8.5 oz. (250mL)	7000	**21-236-21**	56.10	12/584.50
33.87 oz. (1L)	7003	**14-375-35**	89.80	5/382.00
1.06 gal. (4L)	7005	**14-754-34**	188.50	4/666.00
Canister of 25 wipes	7006	**14-754-40**	58.80	12/618.00
Box of 35 individually wrapped wipes	7007	**14-754-41**	71.50	16/994.00

Decon™ ELIMINase™ Decontaminant

Eliminates RNase, DNase and DNA from laboratory surfaces

- Safe on glass, plastics, stainless steel, pipetters, gel boxes and benchtops
- Also acts as a radioactive decontaminant
- Leaves no residue that could degrade RNA and DNA samples or interfere with subsequent enzymatic reaction
- Works instantly
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-32

Size	Mfr. No.	Cat. No.	Each	Case of 12
8.5 oz. (250mL)	1101	**04-355-31**	35.45	362.50
32 oz. (950mL)	1102	**04-355-32**	54.30	561.50

Decon™ NoCount™ Radioactive Decontaminants

Available for use on hard surfaces

- For hard surfaces
- Ideal for removing radioactive contaminants from sinks, benchtops, acrylic shields, glassware, plasticware, electrophoresis gel boxes, sequencing units and other hard surfaces
- Foaming action helps lift and trap particles so they can be easily wiped or rinsed away

⚠ **Warning:** Do not spray 04-355-67 on skin; avoid contact with eyes

04-355-67

Size	Mfr. No.	Cat. No.	Each	Case of 12
18 oz. (510g)	6518	**04-355-67**	23.17	237.68

MP Biomedicals™ RNA-OFF Decontaminants

Removes RNase contamination from glass, plastic, pipettes and equipments that must be RNase free

- Formulated using three ingredients known to be active against RNase
- Leaves no residues that are inhibitory to enzymatic reactions
- Ready to use solution

APPLICATIONS:
DNA and RNA Purification

STORAGE:
15-30°C

Bottle Type	Volume	Mfr. No.	Cat. No.	Each
Spray	250mL	4822682	**MP04822682**	46.15
Dropper	2 × 125mL	4822683	**MP04822683**	47.90
Refill	250mL	4822684	**MP04822684**	46.15

Descalers

Decon™ DeSCAL™ Concentrate

Acidic detergent designed to remove hard-water mineral deposits

- Effectively removes urine scale from animal cages
- Use in automatic glassware washers, process equipment, stills, autoclaves and baths

04-355-36

Size	Mfr. No.	Cat. No.	Each	Case of
34 oz. (1L)	4001	**04-355-36**	29.06	12/294.83
1 gal. (3.8L)	4004	**04-355-103**	350.00	----
2.25 gal. (10L)	4010	**04-355-100**	----	2/451.50

Detergents

Fisherbrand® Sparkleen™ 1 Detergent

Removes proteins, fats, oils, media, wax pencil marks, dried blood and other organic-inorganic deposits from glassware

Especially valuable in exacting titrations and analyses. Excellent for presterilization cleaning and as soak solution to loosen frozen glass joints.

- For manual washing
- Fast-dissolving powder
- Free rinsing
- Contains phosphates
- Softens water, removes stains

04-320-4

Size	Cat. No.	Each	Case of 12
3.33 lb. box (1.5kg)	**04-320-4**	59.06	599.00
100 lb. drum (45kg)	**04-320-5**	1017.96	----

Fisherbrand® Sparkleen™ 2 Detergent

Removes dried blood and stubborn organic deposits quickly and safely

- For use in automated glassware washers
- Concentrated, chlorinated powder
- High-alkaline formula
- Free-rinsing, even in hard water
- Contains phosphates

04-320-6

Size	Cat. No.	Each	Case of 12
3.33 lb. box (1.5kg)	**04-320-6**	48.71	499.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Versa-Clean™ Concentrate

Fine blend of penetrants, emulsifiers and wetting agents safely and effectively lifts, disperses and suspends a broad spectrum of soils and contaminants from washable surfaces

Keeps sensitive equipment free of residues that could interfere with analysis, tissue culture and other critical procedures. Ideal for pharmaceutical process facilities, research labs, environmental labs and water and wastewater labs.

04-343

- Clean-in-place (CIP): Mixing vessels, process equipment, piping, packaging equipment
- Clean-out-of-place (COP): Pharmaceutical washers, immersion soak tanks, ultrasonic cleaners, manual labware washing
- Safe for all washable surfaces including plastic and glass labware, porcelain, ceramic, stainless steel; harmless to most metals
- Readily biodegradable in seven days
- Mild pH
- Nonfuming
- Noncorrosive
- No phosphates
- Ozone friendly
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item is nontoxic

ORDERING INFORMATION:
Third-party lot specific tested for inhibitory residues to meet NELAC and State water lab audit criteria.

INCLUDES:
MSDS, Certificate of Analysis, Trace Analysis and available technical support upon request

CERTIFICATIONS:
USDA approved for use in federally inspected meat and poultry plants. Passes inhibitory residue test. Readily biodegradable according to OECD 301d criteria.

Size	Cat. No.	Each	Case of
2.1 pt. (1L)	**04-342**	27.18	12/272.85
1.06 gal. (4L)	**04-343**	74.36	4/249.39

Thermo Scientific™ Nalgene™ L900 Liquid Detergent

Formulated to clean all plastic labware, especially polycarbonate

For hand or machine use, it is biodegradable, nontoxic and low foaming; it is specially formulated for Nalgene plastic labware

- Will not cause crazing, stress cracking or clouding when used as directed on plastic

04-319B

Size	Mfr. No.	Cat. No.	Each	Case of 4
1.06 gal. (4L)	900-4000	**04-319B**	85.50	230.50

Thermo Scientific™ RBS™ 35 Detergent Concentrate

Safe, effective and residue-free cleaning of lenses and glassware without risk of etching

Removes both organic and inorganic materials and metal ions.

- Ideal for the removal of difficult substances such as protein and blood serum residues, tars, distillation residues, silicone and oils
- Suitable for radiochemical decontamination
- Moderately alkaline mixture of anionic and nonionic surfactants
- Safely and effectively cleans glass, plastic, quartz, porcelain and ferrous metal
- Free-rinsing and biodegradable

PI-27950

Item Name	Quantity	Cat. No.	Each
RBS 35 Detergent Concentrate	1kg	**PI-27950**	44.31
RBS 35 Detergent Concentrate	5kg	**PI-27952**	100.23

Decon™ Citrad™ Acidic Detergent

Ideal for the removal of salts, scale, hard water mineral deposits and metal-oxide

- Also used for metal brightening and pharmaceutical process equipment
- Citric acid-based detergent
- Phosphate-free, free-rinsing and biodegradable
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-90

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	4401	**04-355-90**	65.20	229.50

Decon™ Contrad™ 100 Equipment Cleaner

Formulated for clean-in-place systems and high-pressure cleaning applications

- Alkaline liquid detergent
- Removes a variety of contaminants across a wide range of temperatures and pressures
- Low-foaming, free-rinsing, phosphate free and disposable to drain
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-27

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	1504	**04-355-27**	51.20	177.80
55.5 gal. (210L)	1505	**04-355-57**	1588.00	----

Decon™ Contrad™ NF Liquid Detergent

Cleans a wide variety of organic and inorganic contaminants from most substrates

- Super-concentrated alkaline liquid
- Formulated specifically for automatic washing machines
- Nonfoaming, free-rinsing and residue-free
- Phosphate- and chlorine-free
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-37

Size	Mfr. No.	Cat. No.	Each	Case of
1 gal. (3.8L)	6002	**04-355-37**	71.20	4/247.50
2.625 gal. (10L)	6001	**04-355-30**	----	2/288.00
30.33 gal. (115L)	6003	**04-355-9**	1088.00	----

Decon™ Contrad™ 70 Liquid Detergent

Cleans glass, plastic, ceramic and ferrous metals by soaking, scrubbing or ultrasonic cleaning

Can safely replace acid washes and caustic baths. Excellent substitute for chromic acid.

- Concentrated liquid
- Removes proteins, grease, oil and baked-on contaminants
- Nontoxic, phosphate-free, chlorine-free and completely free-rinsing
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

CERTIFICATIONS:
USDA approved.

04-355-1

Size	Mfr. No.	Cat. No.	Each	Case of
34 oz. (1L)	1002	**04-355**	41.40	12/417.00
1.32 gal. (5L)	1003	**04-355-1**	134.50	4/485.00
5.25 gal. (20L)	1004	**04-355-2**	478.50	----
55.5 gal. (210L)	1005	**04-355-3**	2930.00	----

Decon™ Contrex™ AL Alkaline Liquid Detergent

For use in manual, soak or ultrasonic cleaning

Ideal for cleaning labware, scientific apparatus and process equipment.

- Concentrated liquid
- Free-rinsing, phosphate-free and disposable straight to drain
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-358-10, 04-358-11

Size	Mfr. No.	Cat. No.	Each	Case of
1 qt. (947mL)	5332	**04-358-11**	25.95	12/276.00
1 gal. (3.8L)	5301	**04-358-10**	79.10	4/275.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Decon™ Contrex™ AP Powdered Labware Detergent

Ideal for cleaning labware, scientific apparatus and process equipment

Concentrated powder.

- Formulated for use in manual, soak or ultrasonic cleaning
- Free-rinsing, completely soluble and disposable straight to drain
- Available in a user-friendly bottle which permits easy dispensing and eliminates caking

04-358-17

Size	Mfr. No.	Cat. No.	Each
4 lb. (1.8kg)	5204	**04-358-17**	39.00

Decon™ Contrex™ CA Acidic Liquid Detergent

For use in descaling, mineral removal, oxide removal or other applications where an acidic detergent is indicated

- Organic-acid formula concentrated liquid
- Can be used as a manual, soak or ultrasonic cleaner
- Phosphate-free and disposable straight to drain
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-358-21

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	5701	**04-358-21**	76.30	268.50

Decon™ Contrex™ AW Powdered Autowasher Detergent

Formulated for use in all automatic labware washing machines

- Concentrated powder
- Low-foaming, completely soluble and free-rinsing
- Biodegradable
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-358-12

Size	Mfr. No.	Cat. No.	Each	Case of 9
4 lb. (1.8kg)	5604	**04-358-12**	39.20	309.00
25 lb. (11.3kg)	5625	**04-358-13**	181.00	----
50 lb. (22.7kg)	5650	**04-358-14**	314.00	----

Decon™ Contrex™ CF Cation- and Phosphate-Free Liquid Detergent

For use in cleaning of equipment and electronics that are sensitive to metal cations and phosphates

- Concentrated
- Can be used for soak, scrub, sonication and autowashing
- Free-rinsing, phosphate-free and disposable straight to drain
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-358-26

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	5801	**04-358-26**	98.50	359.00

Decon™ Contrex™ EZ Powdered Enzymatic Detergent

Formulated for removal of protein and fat contamination

Ideal for use in manual or soak cleaning of labware and equipment.

- Powdered
- Free-rinsing and disposable straight to drain
- Enzymatic action
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-358-23

Size	Mfr. No.	Cat. No.	Each	Case of 9
4 lb. (1.8kg)	5404	**04-358-23**	47.30	369.50
25 lb. (11.3kg)	5425	**04-358-24**	185.90	----

Decon™ Dri-Contrad™ Detergent Powder

Cleans proteins, bloods, oils, waxes and organic or inorganic contaminants

- Nonfoaming powder
- For automatic washers
- Free-rinsing, rapidly soluble and noncorrosive
- Chlorinated for biohazard control
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-6

Size	Mfr. No.	Cat. No.	Each	Case of
4.37 lb. (2kg)	2002	**04-355-4**	40.30	6/211.50
27.5 lb. (12.5kg)	2007	**04-355-6**	216.50	----
110.25 lb. (50kg)	2004	**04-355-7**	618.00	----

Decon™ Contrex™ TL Effervescent Detergent Tablets

For use in pipet washers, for parts cleaning or with any application assisted by effervescent action

Has 100 effervescent tablets/bottle.

04-358-27

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 6 Pack
Effervescent Detergent Tablets	5900	**04-358-27**	30.85	162.10

Decon™ Enzyte™ Enzyme Cleaner

Removes proteins, blood and other organic materials from labware and hard surfaces without scrubbing

Ideal for soaking, ultrasonic cleaning and automatic washers.

- Low-foaming multi-enzyme cleaner
- Concentrated — use 1 oz. per gallon of water
- Completely rinsable
- Noncaustic, nontoxic and biodegradable
- Unlimited shelf life
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-102

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	1901	**04-355-102**	60.10	202.50

Decon™ Dri-Clean™ Detergent Powder

For manual, soak or ultrasonic cleaning of all labware

- Powdered formula
- Effectively removes protein, dried blood, oil, grease and most other contaminants from glassware, plasticware, ceramic and metal
- Completely free-rinsing, residue-free and biodegradable
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is non-toxic

04-355-43

Size	Mfr. No.	Cat. No.	Each
110.25 lb. (50kg)	2501	**04-355-43**	490.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Decon™ Neutrad™ Liquid Detergent

For manual scrubbing

Safe on all substrates with a near-neutral pH to enhance substrate compatibility.

- Chlorine-free liquid
- Free-rinsing and disposable straight to drain
- Noncaustic and phosphate-free
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-11

Size	Mfr. No.	Cat. No.	Each	Case of
32 oz. (950mL)	3003	**04-355-10**	22.75	12/237.00
1.33 gal. (5L)	3001	**04-355-11**	101.20	4/367.50

Labconco™ LabSolutions™ Low-Foaming Liquid Detergent

Removes a wide range of contaminants

Specially formulated for Labconco glassware washers.

- Free-rinsing and temperature stable for use in hot or cold water
- Phosphate- and chlorine-free
- Approximately 180 loads

04-334-1

Size	Mfr. No.	Cat. No.	Each
1 gal. (3.8L)	4522000	**04-334-1**	131.50

Labconco™ LabSolutions™ Powder Detergent

Removes grease, blood, agar, protein digestates and other contaminants

For automatic glassware washers.

- Nonfoaming powder
- Free-rinsing and noncorrosive
- Contains phosphates
- Approximate pH of 1% solution: 12.5

INCLUDES:
Scoop

04-335

04-334

Size	Mfr. No.	Cat. No.	Each
10 lb. (4.5kg)	4422000	**04-334**	133.80
28 lb. (12.7kg)	4422100	**04-335**	274.50

Disinfectants

Decon™ AquaPur™ ST Sterile, Purified USP-Grade Water

For diluting sterile disinfectants

Ideal for laboratory, cleanroom and manufacturing-facility applications.

- Filtered to 0.2µm and double-bagged in a Class 100 cleanroom
- Irradiated to SAL 10^{-6}
- Tested for sterililty and endotoxin using current USP method

ORDERING INFORMATION:
Lot-specific document shipped with each case.

COMPLIANCE:
Meets USP and CAPS/NCCL Type I specifications

22-281-500

ALERTS:
Not for parenteral use. Not for injection, irrigation or infusion.

Chemical Quantity	Mfr. No.	Cat. No.	Case of 4
0.92 gal. (3.8L)	8904	**22-281-500**	205.00

Decon™ BDD™ Bacdown™ Detergent Disinfectant

Concentrated quaternary ammonium detergent disinfectant

For cleaning and disinfecting surfaces in labs, production areas and equipment

- Bactericidal, virucidal, fungicidal and deodorizing
- Effective against HIV-1, HBV, Herpes Simplex and others
- Dilution: 2 oz. (59mL) of BDD per gallon (3.8L) of water

COMPLIANCE:
EPA registered

CERTIFICATIONS:
USDA approved

04-355-13

Size	Mfr. No.	Cat. No.	Each	Case of 4
1.33 gal. (5L)	8001	**04-355-13**	75.61	257.82

Decon™ CiDecon™ Detergent Disinfectant

Concentrated phenolic disinfectant

Designed for cleaning and disinfecting surfaces in labs, production areas and equipment.

- Effective against a wide range of pathogenic organisms, including TB, HIV-1, bacteria, viruses and fungi in the presence of 1000ppm hard water and 10% organic soil
- Dilution ratio: 1 oz. (30mL) per gallon (3.8L) of water

COMPLIANCE:

- EPA registered
- Meets OSHA's Bloodborne Pathogen Standard

04-355-64

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	8504	**04-355-64**	64.44	220.48

Decon™ CiDecon™ ST Detergent Disinfectant

Concentrated phenolic disinfectant for cleanroom use

Same as 04-355-64, except double-bagged, gamma-irradiated and sterility-tested.

- Two ounce single-serve size is premeasured to make two gallons of working solution

COMPLIANCE:
EPA Registered

04-355-120

Size	Mfr. No.	Cat. No.	Case of 24
2 oz. (59mL)	8502	**04-355-120**	194.90

Decon™ CiDehol™ 60 Isopropyl Alcohol

Ready-to-use 60% isopropyl alcohol (IPA) solution

- Ideal for filter-integrity testing
- Filtered to 0.2µm

04-355-41

Size	Mfr. No.	Cat. No.	Case of 4
1 gal. (3.8L)	8800	**04-355-41**	210.00

Decon™ CiDehol™ 70 Isopropyl Alcohol Spray

Ready-to-use 70% isopropyl alcohol (IPA)

- Filtered to 0.2µm
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-71, 04-355-63

Size	Mfr. No.	Cat. No.	Each	Case of
Trigger Spray				
16 oz. (473mL)	8416	**04-355-63**	17.32	12/172.70
32 oz. (0.9L)	8432	**04-355-250**	29.20	----
Container				
1 gal. (3.8L)	8401	**04-355-71**	60.10	4/205.50
5 gal. (18.9L)	8406	**04-355-130**	241.00	----
55 gal. (209L)	8405	**04-355-42**	1968.00	----

Decon™ CiDehol™ ST 99 Sterile Isopropyl Alcohol

Sterile, ready-to-use 99% isopropyl alcohol (IPA) solution

- Solution is filtered to 0.2µm, individually double-bagged in an ISO Class 5 environment and sterilized via gamma irradiation, producing a Water-For-Injection Quality (WFIQ™) product
- Each lot undergoes sterility and pyrogen testing and meets WFI endotoxin limits
- Each case shipped with a lot-specific document which details QC, irradiation and testing

04-355-44, 04-355-48

Description	Mfr. No.	Cat. No.	Case of
16 oz. (475mL) Trigger Spray Bottle	8216	**04-355-48**	12/346.50
1 gal. (3.8L) Bottle	8201	**04-355-44**	4/448.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Decon™ CiDehol™ ST Sterile Isopropyl Alcohol

Sterile, ready-to-use 70% isopropyl alcohol (IPA) spray

- Made with Water-For-Injection
- Solution is filtered to 0.2µm and individually double-bagged in an ISO Class 5 (Class 100) environment, then sterilized via gamma irradiation
- Each lot undergoes sterility and pyrogen testing and meets WFI endotoxin limits
- Each case shipped with a lot-specific document, which details QC, irradiation and testing

04-355-500, 04-355-80, 04-355-58

COMPLIANCE:
EPA Registered

Size	Mfr. No.	Cat. No.	Case of
Trigger spray bottles			
12 oz. (355mL)	8312	**04-355-500**	16/347.50
16 oz. (475mL)	8316	**04-355-58**	12/338.65
32 oz. (950mL)	8332	**04-355-85**	12/612.00
Refill			
1 gal. (3.8L)	8301	**04-355-80**	4/451.00

Decon™ CiDehol™ ST Sterile Isopropyl Alcohol and Infrared Hands-Free Dispenser

Sterile, ready-to-use 70% isopropyl alcohol (IPA) solution designed especially for cleanroom use

Dispenser

- Hands-free; movement-activated
- For use with CiDehol ST Sterile 70% IPA
- Dispenses choice of 1, 3 or 5mL
- Wall-mounted

04-356-16, 04-356-15

Dispenser Bag

- Filtered to 0.2µm
- CiDehol ST; 70% Sterile Isopropyl Alcohol
- 32 oz. (950mL) bag for use with hands-free alcohol dispenser
- For pharmaceutical, biotech and medical device cleanroom environments

COMPLIANCE:
EPA Registered

ORDERING INFORMATION:
Individually double-bagged and gamma-irradiated to ensure sterility. Made according to USP specifications and packaged in a Class 100 cleanroom. Each lot undergoes a bacterial endotoxin test to ensure that the product meets or exceeds "Water-for-Injection" quality in endotoxin limits and each lot also undergoes a USP 14-day sterility test. Each case is shipped with lot-specific documentation which details QC, irradiation, sterility and bacterial endotoxin limits.

Description	Quantity	Mfr. No.	Cat. No.	Price
Dispenser	----	8308	**04-356-16**	276.50
Disinfectant Bag	32 oz.	8329	**04-356-15**	Cs. of 8/351.20

Decon™ Conflikt™ Detergent Disinfectant

Prediluted ready-to-use spray quaternary ammonium disinfectant

Effective against TB, HBV and a wide range of viruses, bacteria, pathogenic fungi, mold and mildew, including HIV-1, *E. coli* and Canine Parvovirus.

- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-33

COMPLIANCE:
- EPA registered
- Meets OSHA's Bloodborne Pathogen Standard

CERTIFICATIONS:
USDA approved

Size	Mfr. No.	Cat. No.	Each	Case of
Sprays				
16 oz. (473mL) Pump	4101	**04-355-33**	21.18	12/217.33
32 oz. (946mL) Trigger	4102	**04-355-34**	43.27	6/220.54
Refills				
64 oz. (1.9L)	4103	**04-355-35**	36.81	6/188.78
1 gal. (3.8L)	4104	**04-355-52**	60.33	4/205.05

Decon™ Iradecon™ Bleach-Based Disinfectant

Ideal for disinfecting hard surfaces in labs and production areas

Premixed and stable Iradecon disinfectant is a safer, more convenient alternative than self-made bleach solutions that are inherently unstable and often lose their efficacy in 24 to 48 hours.

- Prediluted, stabilized bleach (sodium hypochlorite) solution
- Consists of 0.525% sodium hypochlorite (10% bleach), which is the strength recommended by CDC and OSHA for inactivating HIV, HBV and other pathogens
- Up to one-year shelf life or one-year shelf life can be requested
- EPA registered

04-355-150

Size	Mfr. No.	Cat. No.	Each	Case of 12
32 oz. (946mL) Trigger Spray	4632	**04-355-150**	31.98	327.61

Decon™ LopHene™ Detergent Disinfectant

Concentrated low pH phenolic disinfectant

Ideal for rotational disinfection program when used with CiDecon™ Detergent Disinfectant (04-355-64).

- For cleaning and disinfecting surfaces in labs and for production areas and equipment
- Effective against a wide range of pathogens and organisms, including TB, HIV-1, bacteria, viruses and fungi, in the presence of 400ppm hard water and 5% organic soil
- Diluted to 0.5 oz. (15mL) per gallon (3.8L) of water

04-355-70

COMPLIANCE:

- EPA registered
- Conforms to OSHA's Bloodborne Pathogen Standard

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	8801	**04-355-70**	85.58	302.91

Decon™ LopHene™ ST Sterile Detergent Disinfectant

Low pH phenolic disinfectant for cleanroom use

- Same features as 04-355-70
- Double-bagged, gamma-irradiated and sterility-tested
- 1 oz. single-serve size is premeasured to make 2 gal. of working solution

COMPLIANCE:
EPA Registered

04-355-127

Size	Mfr. No.	Cat. No.	Case of 24
1 oz. (30mL)	8803	**04-355-127**	192.65

Decon™ SaniHol™ 70 Ethanol Solution

Ready-to-use 70% denatured ethanol solution

- Filtered to 0.2µm to remove particulate contamination

04-355-122

Size	Mfr. No.	Cat. No.	Each	Case of
16 oz. (475mL)	8616	**04-355-122**	27.60	12/276.69
1 gal. (3.8L)	8601	**04-355-92**	86.09	4/298.48

Decon™ SaniHol™ ST Sterile 70% Ethanol Solution

Sterile, ready-to-use 70% denatured ethanol (EtOH) spray.

- Solution is filtered to 0.2µm and individually double-bagged in an ISO Class 5 (Class 100) environment, then sterilized via gamma irradiation, producing a Water-For-Injection Quality (WFIQ™) product
- Each lot undergoes sterility and pyrogen testing and meets WFI endotoxin limits
- Each case is shipped with a lot-specific document that details QC, irradiation and testing

04-355-54, 04-355-56

COMPLIANCE:
EPA Registered

Description	Mfr. No.	Cat. No.	Case of
16 oz. (475mL) Trigger Spray Bottle	8116	**04-355-56**	12/371.00
1 gal. (3.8L) Bottle	8101	**04-355-54**	4/535.00

Decon™ SporGon™ Sporicidal Disinfectant

Ready-to-use peracetic acid-based disinfecting solution effective against spores

- Tuberculocidal, bactericidal, virucidal and fungicidal
- Achieves high-level disinfection in 15 minutes and complete sterilization in three hours
- Completely biodegradable and decomposes into oxygen, water and acetic acid
- Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Item contains recycled content as described in the item detail
- Item is nontoxic

04-355-72

COMPLIANCE:
FDA 510K clearance. Meets OSHA's Bloodborne Pathogen Standard.

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	4301	**04-355-72**	58.88	199.18

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Contec™ Sporicidin™ Disinfectant Solution

For disinfecting, cleaning and deodorizing hard surfaces

Provides disinfection against pathogenic vegative organisms, including MRSA, VRE and Avian Influenza A Virus (H9N2) and Human Influenza A (H1N1)

- Continuous residual activity up to six months
- Compatible with plastics, wood, glass and metals
- Alcohol-free
- Nonstaining, nonabrasive and noncorrosive
- EPA registered
- Lowest EPA toxicity category
- Bottle with trigger spray
- Fresh scent

19-165-632, 19-165-633

APPLICATIONS:
Disinfecting hard surfaces in critical areas where USP 797 compliance has been mandated, ISO Class 8 Anterooms in hospitals and compounding pharmacies

COMPLIANCE:
OSHA, EPA

Size	Mfr. No.	Cat. No.	Case of
32 oz. (946mL)	PS-3212F	**19-165-633**	12/269.00
128 oz. (3.8L)	RE-1284F	**19-165-632**	4/182.30

Current Technologies Bleach-Rite™ Disinfecting Spray with Bleach

EPA approved to kill *Clostridium difficile* spores in five minutes

- Bottles contain pre-mixed, ready-to-use bleach disinfectant formulated at 0.525% (a 1:10 dilution)
- Stabilized for 18-month shelf life with expiration date on each bottle and outer box for ease of management/inspection
- Disinfection sites include: POCT devices, lab equipment including chemistry/gas analyzers, counters, centrifuges, cryostats, phlebotomy and specimen collection areas, wastewater treatment, pharma and research labs and production areas
- For use on hard, nonporous surfaces including plastics, Plexiglas™, glass, glazed ceramic tile, linoleum, baked enamel and stainless steel (follow equipment manufacturers' directions)
- Available in 16 or 32 ounce bottles with sprayers; half gallon or gallon bottles

14-412-65, 14-412-54

COMPLIANCE:
All kill claims including *C. difficile* spore claim are registered with the Federal EPA and in the state of California and other states.

Kill Time	Pathogen
30 Seconds	*Enterococcus faecium* (VRE) *Streptococcus pyogenes* *Acinetobacter baumannii* *Carbapenem-resistant Klebsiella pneumoniae* (CRKP) *Enterobacter aerogenes* *Escherichia coli* (ESBL) *Pseudomonas aeruginosa* *Salmonella enterica* *Staphylococcus aureus* (MRSA) *Staphylococcus aureus* *Coronavirus* (SARS) *Hepatitis A* (HAV)
One Minute	*Herpes Simplex* (HSV-2) *HIV-1* (AIDS) *Influenza A H1N1* (swine flu) *Influenza A* *Norovirus* *Poliovirus* *Respiratory Syncytial* (RSV) *Rhinovirus* *Rotavirus* *Aspergillus brasiliensis* *Trichophyton mentagrophytes* (Athlete's Foot Fungus)
Two Minutes	*Mycobacterium bovis* (BCG) TB - Tuberculocidal
Five Minutes	*Clostridium difficile* spores (C. difficile)

Size	Mfr. No.	Cat. No.	Case of
Trigger spray			
16 oz. (473mL)	BRSPRAY16	**14-412-65**	12/135.50
32 oz. (946mL)	BRSPRAY32	**14-412-66**	6/126.10
Refill			
64 oz. (1.9L)	BRSPRAY64	**14-412-54**	6/146.70
128 oz. (3.8L)	BRSPRAY128	**14-412-53**	4/140.40

Steris™ Coverage Plus NPD™ Cleaner Disinfectant

One-step concentrate cleans, disinfects and deodorizes hard, nonporous surfaces

- Consists of four quaternary ammonium compounds formulated with a compatible detergent system
- Effective in hard water up to 400ppm hardness as $CaCO_3$ and in the presence of 5% blood serum
- Provides broad spectrum germicidal activity; effective against influenza, HIV-1 virus and Hepatitis B and C
- Contains no dyes or perfumes that could interfere with critical research studies or manufacturing processes
- Phosphate-free
- Used at a 1:256 dilution

14-415-18

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	6387-08	**14-415-18**	124.20	438.00

Steris™ Coverage™ Spray HB Plus Ready-to-Use Disinfectant Cleaner

Quaternary-based, one-step disinfectant for hard surfaces

- Provides a broad range of activity against gram-positive and gram-negative bacteria, viruses and fungi
- Effective in 5% organic soil

COMPLIANCE:
Complies with OSHA Bloodborne Pathogen Standard (29 CFR Part 1910.1030).

14-415-19

Description	Mfr. No.	Cat. No.	Each	Case of 12
22 oz. (651mL) Trigger Spray Bottle	1624-77	**14-415-19**	24.85	249.50

Steris™ Coverage™ Spray TB Plus Ready-to-Use Disinfectant Cleaner

Hard surface quaternary-based disinfectant kills a broad range of bacteria, viruses and fungi within three minutes

Ideal for use in laboratories, hospitals, surgical centers, medical and dental offices, and other patient-care facilities.

- Tuberculocidal and HIV-1 effective
- Leaves no hazardous residue
- Contains no dangerous phenols or chlorine
- Compatible for use on inanimate surfaces including plastics, stainless steel, chrome, vinyl, acrylic, glass, Plexiglas™ resin and baked-on painted surfaces
- Uses a sprayer head on the 24 oz. (710mL) bottle that allows application without producing aerosolized airborne particles that may be aspirated

14-415-12, 14-415-13

COMPLIANCE:
Conforms to OSHA Guidelines (21CFR Part 1910, 1030).

Description	Mfr. No.	Cat. No.	Each	Case of
24 oz. (710mL) Trigger Spray Bottle	1629-B4	**14-415-12**	25.95	12/261.50
1 gal. (3.8L) refill	1629-08	**14-415-13**	122.10	4/431.00

Steris™ Coverage™ Spray TB Ready-to-Use Disinfectant

Quaternary-based disinfectant cleans, deodorizes and disinfects

Ideal for use in laboratories, hospitals, doctors' offices, nursing homes, schools and veterinary clinics.

- Effective against *Mycobacterium tuberculosis* (BCG) and other bacteria, the HIV-1 virus and pathogenic fungi in the presence of 5% organic soil (5% blood serum)
- Deodorizes areas that are difficult to keep fresh smelling, such as garbage storage areas and restrooms
- Recommended for use on metal, stainless steel, plastic, porcelain, glazed ceramic tile and other nonporous environmental surfaces

14-415-20

Size	Mfr. No.	Cat. No.	Each	Case of 12
22 oz. (651mL)	1429-77	**14-415-20**	22.55	225.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Steris™ LpH™ se One-Step Germicidal Detergent

One-step nonalkaline disinfectant cleaner and deodorizer for use on hard, nonporous surfaces

Ideal for use in a rotation program with Vesphene™ IIse Disinfectant (14-415-11).

- Phenolic-based germicidal detergent
- Kills a broad spectrum of common bacteria at a use dilution rate of 1:256 without harming surfaces
- Also tuberculocidal and HIV-effective
- Effective with soft water or hard water up to 400ppm hardness (as $CaCO_3$) and in the presence of 5% serum

COMPLIANCE:
Meets OSHA guidelines for cleaning and disinfecting blood spills.

14-415-10

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	6466-08	**14-415-10**	163.50	580.50

Steris™ Vesphene™ IIse Nonsterile Disinfectant Cleaner

One-step alkaline disinfectant cleaner and deodorizer for use on hard, nonporous surfaces

Ideal for use in a rotation program with LpH™ se One-Step Germicidal Disinfectant (14-415-10). Suitable for use in institutions such as pharmaceutical plants, veterinary clinics and industrial plants.

- Contains phenols blended with synthetic detergents and builders
- Kills a broad spectrum of common bacteria at a use dilution rate of 1:128 (1 oz. per gal. [30mL per 3.8L]) without harming surfaces
- Also effective against fungi and viruses, including the HIV-1 virus, Herpes Simplex Type 2, Influenza A_2 (Japan)
- Effective with soft water or hard water up to 400ppm hardness (as $CaCO_3$) and in the presence of 5% serum
- Advanced detergent system provides superior cleaning and disinfecting

14-415-11

Size	Mfr. No.	Cat. No.	Each	Case of 4
1 gal. (3.8L)	646108	**14-415-11**	130.10	444.00

Handcare

Thermo Scientific™ SoftCIDE™ Extra-Mild Antimicrobial Handwash

Fast-acting antimicrobial hand soap effective against a broad spectrum of microorganisms, including gram positive and negative bacteria, yeast and fungi

- Uses 1% PCMX as an active ingredient
- Unique formulation contains emollients to replenish the natural oils of the skin
- Very mild soap is extremely gentle; pH balanced with the skin

14-379-24

Description	Mfr. No.	Cat. No.	Each	Case of
4 oz. (118mL) Squeeze Bottle	21004-12-001	**14-379-23**	7.93	12/79.40
16 oz. (473mL) Pump Bottle	21016-06-001	**14-379-24**	22.60	6/108.20
27 oz. (798mL) Bag-in-a-Box Carton Refill	21027-12-001	**14-379-25**	27.15	12/280.50
32 oz. (946mL) Pump Bottle	21032-06-001	**12-544-09**	43.25	6/212.50
1 gal. (3.8L) Refill Jug	21128-04-001	**12-544-22**	94.50	4/304.00

Thermo Scientific™ SoftCIDE™-NA Plain Hand Soap

Mild hand soap washes away harmful bacteria

- Specifically formulated with emollients to help soften the skin
- pH balanced with the skin
- High sudsing formula washes away the most stubborn grease, oil, dirt and harmful bacteria
- Recommended for low- to medium-duty soil in commercial, healthcare and industrial areas

14-379-28, 14-379-29

Description	Mfr. No.	Cat. No.	Each	Case of 12
27 oz. (798mL) Bag-in-a-box carton refill	25027-12-001	**14-379-28**	20.40	204.50
32 oz. (946mL) Pump bottle	25032-12-001	**14-379-29**	25.40	248.50

Decon™ Bacdown™ Gel No-Rinse Skin Cleanser

Can be used anywhere soap and water are not available.

- Uses a special formula of 62% ethyl alcohol
- With aloe and gentle emollients to soothe and moisten skin

COMPLIANCE:
Meets OSHA requirements for hand washing.

04-355-47

Description	Mfr. No.	Cat. No.	Each	Case of
4 oz. (120mL) Pocket Pack	7104	**04-355-47**	8.51	30/207.00
16 oz. (473mL) Pump Pack	7106	**04-355-53**	18.10	6/95.50

Decon™ Bacdown™ Hand Soap

Gentle, pleasant-smelling hand soap

- Formulated specifically for laboratory personnel who wash hands repeatedly and cannot afford dry, chapped skin
- Uses the active ingredient triclosan
- Will not dry skin

04-355-16, 04-355-50

Bottles	Mfr. No.	Cat. No.	Each	Case of
Pump Bottles				
17 oz. (500mL)	7018	**04-355-50**	21.30	12/216.50
34 oz. (1L)	7001	**04-355-16**	31.95	12/322.50
Container				
1.32 gal. (5L)	7005	**04-355-17**	105.00	4/375.00

Decon™ Bacdown™ Hand Soap Wall Bracket

For use with 17 oz. (500mL) pump bottle of Bacdown Hand Soap or 16 oz. (473mL) pump bottle of Bacdown Gel No-Rinse Skin Cleanser or 16 oz. (473mL) pump bottle of Proguard™ and Proguard Plus™.

04-355-51

Description	Mfr. No.	Cat. No.	Each	Case of 12
Wall Bracket for 16 oz. Pump	7017	**04-355-51**	8.38	83.76

Contec™ Foam Hand Sanitizer

Ideal for use in critical areas and food processing

- Alcohol-based waterless hand sanitizer kills 99.999% of germs in 15 seconds
- Safe and easy-to-use foam allows for visible coverage of nails and cuticles
- Silicone-free, moisturizing ethanol (62%) formula is enhanced with natural emollients to soften hands
- CDC guideline compliant and triclosan-free formulation
- Fits touchless dispensers (not included)

ORDERING INFORMATION:
Approximately 1650 applications per cartridge.

19-138-900

COMPLIANCE:
NSF approved E3 classification for use around food processing areas

Description	Mfr. No.	Cat. No.	Case of 6
Foam Sanitizer 42.3 oz.	HAND0100	**19-138-900**	199.20

Contec™ Alcohol-Free Foam Sanitizer

Alcohol and triclosan-free formulation

- No rinse hand sanitizer kills up to 99.9999% of most common germs after a 15-second wet time
- Will not sting or irritate when applied to skin — leaves hands feeling moisturized and conditioned
- Nonflammable and nonhazardous for easy transport/storage
- Fragrance free and nonstaining formulation
- Safe, easy-to-use foam allows for visible coverage of nails and cuticles
- Silicone-free, moisturizing benzalkonium chloride (0.1%) formula enhanced with natural emollients to soften hands
- Individual 1.52 oz. (45mL) pump bottle

19-138-902

Description	Mfr. No.	Cat. No.	Case of 48
Foam Sanitizer 1.5 oz.	HAND0201	**19-138-902**	199.20

Steris™ Acute-Kare™ Healthcare Personnel Handwash

Suitable for use in high-risk areas and for reducing the possibility of microbial cross-contamination

- Formulated with 1% chloroxylenol (PCMX)
- Effective against a broad spectrum of microorganisms
- Uses a gentle, emollient-enriched formula to help condition skin

14-415-35

Description	Mfr. No.	Cat. No.	Each	Case of 18
15 oz. (444mL) Pump bottle	1206-R2	**14-415-35**	27.35	407.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Steris™ Alcare Plus™ Antiseptic Handrub with Emollients

Fast-acting, foamed, alcohol-based handwash with added emollients that moisturize skin

Ideal for use when soap and water are not available.

- Contains 62% ethyl alcohol by volume
- Provides broad spectrum activity against pathogenic microorganisms, including methicillin-resistant *Staphylococcus aureus* (MRSA) and vancomycin-resistant *Enterococci* (VRE)
- Spreads easily to facilitate even distribution over all skin surfaces for effective disinfection

14-415-25, 14-415-26

Size	Mfr. No.	Cat. No.	Each	Case of 24
5.37 oz. (160mL)	6399-57	**14-415-26**	58.10	777.34
9 oz. (266mL)	6399-36	**14-415-25**	29.63	555.19

Steris™ Cal Stat™ Plus Antiseptic Handrub

Quickly decontaminates visibly clean hands

- 63% v/v isopropyl-alcohol base
- Emollients moisturize skin
- Does not inactivate chlorhexidine gluconate (CHG) residual on skin
- Dermatologist-tested
- Dye-free
- Hypoallergenic

REQUIRES:
14-415-27 requires use of Steris Dispensing System (14-415-21)

14-415-29, 14-415-27, 14-415-28

Description	Mfr. No.	Cat. No.	Each	Case of
4 oz. (118mL) Squeeze Bottle	1181-03	**14-415-29**	12.54	72/673.76
15 oz. (444mL) Pump Bottle	1181-RP	**14-415-28**	24.10	18/362.50
33.25 oz. (1L) Dispenser Pack	1181-87	**14-415-27**	46.20	12/466.50

Steris™ CV™ Medicated Lotion Soap

Formulated to be effective against both gram-positive and gram-negative bacteria

- Contains 0.5% triclosan
- Contains emollients and skin conditioners to be gentle on hands

REQUIRES:
14-415-33 requires use of Steris Dispensing System (14-415-21).

14-415-34, 14-415-33

Size/Description	Mfr. No.	Cat. No.	Each	Case of
15 oz. (444mL) Pump Bottle	6262-R2	**14-415-34**	47.75	18/724.00
33.75 oz. (1L) Dispenser Pack	6262-87	**14-415-33**	100.20	12/716.50

Steris™ Kindest Kare™ Foaming Handwash

Dispensed as a foam to provide a convenient, easy-to-use, free-rinsing handwash

- Formulated with a blend of surfactants and moisturizers at a neutral pH
- Cleans hands without impacting the skin's natural moisturizing factors
- Dermatologist-tested
- Dye-free
- Hypoallergenic

14-415-39

Description	Mfr. No.	Cat. No.	Each	Case of 18
15 oz. (444mL) Pump Bottle	1152-RF	**14-415-39**	21.05	317.50

Handcare - Lotions

Thermo Scientific™ SoftGUARD™ Extra-Strength Barrier Hand Cream

Prevents skin irritation caused by frequent washing and gloving; allows damaged skin to heal

Unique barrier feature helps prevent the occlusion of the skin.

- Compatible with latex, nitrile, vinyl, PCMX, CHG and antimicrobial soap — petroleum- and mineral oil-free
- Utilizes an extra-strength antimicrobial preservative to prevent cross-contamination
- Absorbs immediately
- Nongreasy, fragrance-free and pH balanced with the skin

SoftGUARD Extra-Strength Barrier Hand Cream

Description	Mfr. No.	Cat. No.	Each	Case of
3 oz. (90mL) Tube	12003-12-001	**19-023-979**	11.51	12/111.10
8 oz. (237mL) Tube	12008-06-001	**14-379-46**	26.05	6/134.40
16 oz. (473mL) Pump Bottle	11016-06-001	**12-544-20**	34.00	6/160.80

Decon™ Proguard™ Plus Hand Cream with Triclosan

Prevents irritation from latex gloves and other irritants while moisturizing dry skin

The same popular formula as Proguard Professional Hand Cream with the addition of Triclosan.

- Does not contain any ingredients that would compromise the integrity of latex gloves
- Nonscented, nongreasy and absorbs instantly

04-355-123

Size	Mfr. No.	Cat. No.	Each	Case of 6
16 oz. (473mL)	9416	**04-355-123**	36.60	192.50

Decon™ Proguard™ Professional Hand Cream

Specially formulated lotion moisturizes dry, cracked hands and guards against latex glove irritation

- Does not contain grease, oil, perfume, aloe or other ingredients that can compromise the integrity of latex gloves
- Absorbs instantly, leaving skin soft

04-355-21

Description	Mfr. No.	Cat. No.	Each	Case of
3 oz. (90mL) Tube	9503	**04-355-20**	10.14	12/100.10
16 oz. (475mL) Dispenser	9516	**04-355-21**	33.60	6/171.60

Steris™ Lotion Soft™ Skin Conditioner Skin Cream

Moisturizes skin without compromising the antimicrobial activity of products containing chlorhexidine gluconate (CHG)

- Does not contain petrolatum or mineral oil — suitable for use under gloves
- Contains emollients and other softening ingredients that make it ideal for use after antimicrobial handwashing

REQUIRES:
14-415-30 requires use of Steris Dispensing System (14-415-21)

14-415-32, 14-415-30, 14-415-31

Description	Mfr. No.	Cat. No.	Each	Case of
4 oz. (115mL) Squeeze Bottle	1029-K6	**14-415-32**	22.00	72/1180.78
15 oz. (444mL) Pump Bottle	1029-R5	**14-415-31**	37.25	12/376.00
33.75 oz. (1L) Dispenser Pack	1029-87	**14-415-30**	58.80	12/598.50

Optical Cleaners

Fisherbrand® Optical Lens Cleaner

Excellent for removing oil and smudges from objectives or any optical surface

- Laboratory safe
- Nonflammable

22-143-974

Description	Cat. No.	Pack of 6	Case of 8 Packs
2 oz. (59mL) Bottle	**22-143-974**	42.00	287.77

Fisherbrand® Hellmanex™ III Liquid Cleaning Concentrate

Provides effective cleaning of glass and quartz cells and other sensitive optical components

- Highly effective alkaline concentrate
- Contains components for trace-free decontamination without damaging high-precision polished surfaces
- Removes fats, oils, waxes, dried blood, proteins, silicone oil and traces of many other organic and inorganic substances
- No influence on enzymatic or serological reactions
- Low phosphate content

14-385-864

Description	Cat. No.	Each
Hellmanex III	**14-385-864**	123.10

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Cloning and Expression

Enzymes

Thermo Scientific™ FastDigest™ Enzymes

All FastDigest enzymes are 100% active in the universal FastDigest and FastDigest Green buffers and are able to digest DNA in 5-15 minutes. This enables any combination of restriction enzymes to work simultaneously in one reaction tube and eliminates the need for sequential digestions. As an added convenience, the FastDigest Green Buffer allows for direct loading of the reaction mixture on a gel. FastDigest enzymes can be used to digest plasmid, genomic and viral DNA as well as PCR products and do not show star activity even in prolonged incubations.

APPLICATIONS:
Fast clone analysis; Fast preparation of DNA for cloning; Digestion of PCR products; Fast RFLP genotyping; Digestion of difficult-to-cleave DNA

INCLUDES:
Two versions of the universal FastDigest buffer are supplied with each enzyme: 10X FastDigest Buffer and 10X FastDigest Green Buffer. All FastDigest enzymes are 100% active in both buffers. Enzymes used in common downstream applications such as ligation, blunting and dephosphorylation also have 100% activity in both buffers.

Name	Recognition/Cut Size	Units	Cat No.	Each
AatII	GACGT˅C	50	**FERFD0994**	60.00
AccI (XmiI)	GT˅MKAC	50	**FERFD1484**	76.00
Acc65I	G˅GTACC	100	**FERFD0904**	66.00
AciI (SsiI)	CCGC(-3/-1)˅	20	**FERFD1794**	71.00
AclI (Psp1406I)	AA˅CGTT	20	**FERFD0944**	55.00
AcuI (Eco57I)*	CTGAAG(16/14)˅	20	**FERFD0344**	66.00
AfeI (Eco47III)	AGC˅GCT	20	**FERFD0324**	87.00
AflII (BspTI)	C˅TTAAG	150	**FERFD0834**	55.00
AgeI (BshTI)	A˅CCGGT	20	**FERFD1464**	55.00
AjuI*	˅(7/12)GAA(N)7TTGG(11/6)˅	20	**FERFD1954**	76.00
AleI (OliI)	CACNN˅NNGTG	20	**FERFD1634**	66.00
AluI	AG˅CT	100	**FERFD0014**	66.00
Alw21I	GWGCW˅C	100	**FERFD0024**	66.00
Alw26I	GTCTC(1/5)˅	100	**FERFD0034**	66.00
AlwNI (CaiI)	CAGNNN˅CTG	50	**FERFD1394**	71.20
ApaI	GGGCC˅C	300	**FERFD1414**	57.00
ApaLI (Alw44I)	G˅TGCAC	200	**FERFD0044**	58.00
AscI (SgsI)	GG˅CGCGCC	100	**FERFD1894**	76.00
AseI (VspI)	AT˅TAAT	200	**FERFD0914**	66.00
AsiSI (SfaAI)	GCGAT˅CGC	100	**FERFD2094**	66.00
AvaI (Eco88I)	C˅YCGRG	200	**FERFD0384**	66.00
AvaII (Eco47I)	G˅GWCC	200	**FERFD0314**	66.00
AvrII (XmaJI)	C˅CTAGG	20	**FERFD1564**	76.00
BamHI	G˅GATCC	800/ 2500	**FERFD0054** **FERFD0055**	52.20/ 110.70
BanI (BshNI)	G˅GYRCC	300	**FERFD1004**	55.00
BbsI (BpiI)	GAAGAC(2/6)˅	20	**FERFD1014**	66.00
BbvI (Lsp1109I)	GCAGC(8/12)˅	100	**FERFD2074**	66.00
BclI	T˅GATCA	300	**FERFD0724**	54.00
BfaI (FspBI)	C˅TAG	50	**FERFD1764**	76.00
BglI	GCCNNNN˅NGGC	200	**FERFD0074**	62.00
BglII	A˅GATCT	200	**FERFD0084**	52.00
BlpI (Bpu1102I)	GC˅TNAGC	50	**FERFD0094**	76.00
Bme1580I (BseSI)	GKGCM˅C	50	**FERFD1444**	71.20
BmtI (BspOI)	GCTAG˅C	20	**FERFD2044**	66.00
BplI*	˅(8/13)GAG(N)5CTC(13/8)˅	20	**FERFD1314**	106.00
BpmI (GsuI)	CTGGAG(16/14)˅	20	**FERFD0464**	107.50
Bpu10I	CCTNAGC(-5/-2)˅	20	**FERFD1184**	66.00
BsaAI (Ppu21I)	YAC˅GTR	50	**FERFD1974**	66.00
BsaBI (BseJI)	GATNN˅NNATC	200	**FERFD1714**	73.00
BsaHI (Hin1I)	GR˅CGYC	100	**FERFD0474**	71.00
BsaJI (BseDI)	C˅CNNGG	20	**FERFD1084**	55.00
BseGI	GGATG(2/0)˅	100	**FERFD0874**	72.20
BseNI	ACTGG(1/-1)˅	100	**FERFD0884**	76.00
BseXI	GCAGC(8/12)˅	20	**FERFD1454**	76.00

Name	Recognition/Cut Size	Units	Cat No.	Each
Bsh1236I	CG˅CG	100	**FERFD0924**	60.00
BsiEI (Bsh1285I)	CGRY˅CG	100	**FERFD0894**	66.00
BsiWI (Pfl23II)	C˅GTACG	50	**FERFD0854**	87.00
BslI (BseLI)	CCNNNNN˅NNGG	100	**FERFD1204**	66.00
BsmBI (Esp3I)*	CGTCTC(1/5)˅	20	**FERFD0454**	72.00
BsmFI (FaqI)*	GGGAC(10/14)˅	20	**FERFD1814**	87.70
Bsp119I	TT˅CGAA	200	**FERFD0124**	55.00
Bsp120I	G˅GGCCC	200	**FERFD0134**	87.00
Bsp1286I (SduI)	GDGCH˅C	50	**FERFD0654**	66.00
Bsp1407I	T˅GTACA	100	**FERFD0934**	66.00
BspCNI (BseMII)*	CTCAG(10/8)˅	20	**FERFD1404**	76.00
BspHI (PagI)	T˅CATGA	50	**FERFD1284**	66.00
BspMI (BveI)*	ACCTGC(4/8)˅	50	**FERFD1744**	131.20
BsrBI (MbiI)	CCGCTC(-3/-3)˅	100	**FERFD1274**	73.30
BsrDI (BseMI)	GCAATG(2/0)˅	20	**FERFD1264**	76.00
BsrFI (Cfr10I)	R˅CCGGY	50	**FERFD0184**	71.00
BssHII (PteI)	G˅CGCGC	20	**FERFD2134**	55.00
BstXI	CCANNNNN˅NTGG	100	**FERFD1024**	76.00
BstZ17I (Bst1107I)	GTA˅TAC	100	**FERFD0704**	71.00
Bsu36I (Eco81I)	CC˅TNAGG	50	**FERFD0374**	66.00
ClaI (Bsu15I)	AT˅CGAT	100	**FERFD0144**	60.00
Csp6I	G˅TAC	100	**FERFD0214**	60.00
DdeI (HpyF3I)	C˅TNAG	50	**FERFD1884**	66.00
DpnI	Gm6A˅TC	100	**FERFD1704**	66.00
DraI	TTT˅AAA	200	**FERFD0224**	66.00
DraIII (AdeI)	CACNNN˅GTG	50	**FERFD1234**	55.00
DrdI (AasI)	GACNNNN˅NNGTC	25	**FERFD1724**	55.00
EagI (Eco52I)	C˅GGCCG	50	**FERFD0334**	73.00
Eam1105I	GACNNN˅NNGTC	100	**FERFD0244**	71.00
EarI (Eam1104I)	CTCTTC(1/4)˅	50	**FERFD0234**	71.00
EclI36II	GAG˅CTC	100	**FERFD0254**	55.00
Eco31I	GGTCTC(1/5)˅	100	**FERFD0294**	67.00
Eco91I	G˅GTNACC	200	**FERFD0394**	66.00
EcoNI (XagI)	CCTNN˅NNNAGG	100	**FERFD1304**	71.00
EcoO109I	RG˅GNCCY	200	**FERFD0264**	73.00
EcoRI	G˅AATTC	800/ 2500	**FERFD0274** **FERFD0275**	52.20 110.70
EcoRV (Eco32I)	GAT˅ATC	400	**FERFD0304**	62.00
EheI	GGC˅GCC	50	**FERFD0444**	82.00
Fnu4HI (SatI)	GC˅NGC	20	**FERFD1644**	71.00
FokI	GGATG(9/13)˅	100	**FERFD2144**	60.00
FspI (NsbI)	TGC˅GCA	50	**FERFD1224**	71.00
FspAI	RTGC˅GCAY	20	**FERFD1664**	119.00
HaeII (BfoI)	RGCGC˅Y	200	**FERFD2184**	66.00
HaeIII (BsuRI)	GG˅CC	400	**FERFD0154**	82.00

Thermo Scientific™ FastDigest™ Enzymes (contd.)

Name	Recognition/Cut Size	Units	Cat No.	Each
Hgal (CseI)	GACGC(5/10)▼	20	**FERFD1904**	106.00
HhaI	GCG▼C	200	**FERFD1854**	71.00
HincII	GTY▼RAC	100	**FERFD0494**	62.00
HindIII	A▼AGCTT	800/ 2500	**FERFD0504** **FERFD0505**	52.00/ 108.00
HinfI	G▼ANTC	400	**FERFD0804**	57.00
HinP1I (Hin6I)	G▼CGC	200	**FERFD0484**	66.00
HpaI (KspAI)	GTT▼AAC	50	**FERFD1034**	62.00
HpaII	C▼CGG	200	**FERFD0514**	60.00
Hpy8I	GTN▼NAC	20	**FERFD1574**	67.00
HpyF10VI	GCNNNNN▼NNGC	20	**FERFD1734**	55.00
KpnI	GGTAC▼C	300	**FERFD0524**	52.00
Kpn2I	T▼CCGGA	100	**FERFD0534**	62.00
MauBI	CG▼CGCGCG	20	**FERFD2084**	66.00
MboI	▼GATC	50	**FERFD0814**	71.20
MboII	GAAGA(8/7)▼	50	**FERFD0824**	60.00
MfeI (MunI)	C▼AATTG	50	**FERFD0754**	71.00
MluI	A▼CGCGT	100	**FERFD0564**	66.00
MlyI (SchI)	GAGTC(5/5)▼	100	**FERFD1374**	72.00
MnlI	CCTC(7/6)▼	50	**FERFD1074**	71.00
MreI	CG▼CCGGCG	20	**FERFD2024**	55.00
MscI (MlsI)	TGG▼CCA	50	**FERFD1214**	76.00
MseI (SaqAI)	T▼TAA	50	**FERFD2174**	67.00
MslI (RseI)	CAYNN▼NNRTG	20	**FERFD2004**	66.00
MspI	C▼CGG	400	**FERFD0544**	55.00
MssI	GTTT▼AAAC	100	**FERFD1344**	76.00
MvaI	CC▼WGG	200	**FERFD0554**	62.00
Mva1269I	GAATGC(1/-1)▼	50	**FERFD0964**	71.00
NaeI (PdiI)	GCC▼GGC	50	**FERFD1524**	76.00
NciI (BcnI)	CC▼SGG	200	**FERFD0064**	71.00
NcoI	C▼CATGG	100/ 300	**FERFD0574** **FERFD0575**	57.00/ 137.00
NdeI	CA▼TATG	300/ 1000	**FERFD0584** **FERFD0585**	52.00/ 118.00
NheI	G▼CTAGC	100	**FERFD0974**	63.00
NlaIII (Hin1II)	CATG▼	100	**FERFD1834**	71.00
NlaIV (BspLI)	GGN▼NCC	20	**FERFD1154**	66.00
NmuCI	▼GTSAC	20	**FERFD1514**	66.00
NotI	GC▼GGCCGC	50/ 150	**FERFD0594** **FERFD0595**	67.90/ 165.10
NruI (RruI)	TCG▼CGA	100	**FERFD2154**	57.00
NsiI (Mph1103I)	ATGCA▼T	100	**FERFD0734**	71.00
NspI (XceI)	RCATG▼Y	50	**FERFD1474**	60.00
PacI	TTAAT▼TAA	25	**FERFD2204**	60.00
PdmI	GAANN▼NNTTC	100	**FERFD1534**	60.00
PflMI (Van91I)	CCANNNN▼NTGG	100	**FERFD0714**	71.00
PfoI	T▼CCNGGA	20	**FERFD1754**	184.00
PmlI (Eco72I)	CAC▼GTG	200	**FERFD0364**	73.00
PpuMI (Psp5II)	RG▼GWCCY	50	**FERFD0764**	66.00
PshAI (BoxI)	GACNN▼NNGTC	100	**FERFD1434**	71.00
PsiI (AanI)	TTA▼TAA	20	**FERFD2064**	97.00
PspFI	CCCAGC(-1/-5)▼	20	**FERFD2224**	66.00
PstI	CTGCA▼G	800/ 2500	**FERFD0614** **FERFD0615**	57.00 118.00
PsuI	R▼GATCY	150	**FERFD1554**	55.00
PsyI	GACN▼NNGTC	100	**FERFD1334**	73.00
PvuI	CGAT▼CG	20	**FERFD0624**	62.00
PvuII	CAG▼CTG	400	**FERFD0634**	52.00
RsaI	GT▼AC	100	**FERFD1124**	62.00
RsrII (CpoI)	CG▼GWCCG	20	**FERFD0744**	71.00
SacI	GAGCT▼C	200	**FERFD1134**	60.00

Name	Recognition/Cut Size	Units	Cat No.	Each
SalI	G▼TCGAC	200	**FERFD0644**	57.00
SanDI (KflI)	GG▼GWCCC	20	**FERFD2164**	87.00
SapI (LguI)	GCTCTTC(1/4)▼	20	**FERFD1934**	62.00
Sau3AI (Bsp143I)	▼GATC	40	**FERFD0784**	60.00
Sau96I (Cfr13I)	G▼GNCC	100	**FERFD0194**	71.00
SbfI (SdaI)	CCTGCA▼GG	20	**FERFD1194**	55.00
ScaI	AGT▼ACT	100	**FERFD0434**	60.00
ScrFI (Bme1390I)	CC▼NGG	100	**FERFD1424**	71.00
SexAI (CsiI)	A▼CCWGGT	50	**FERFD2114**	87.00
SfaNI (BmsI)	GCATC(5/9)▼	20	**FERFD2124**	184.00
SfcI (BfmI)	C▼TRYAG	20	**FERFD1164**	71.00
SfiI	GGCCNNNN▼NGGCC	150	**FERFD1824**	55.00
SmaI	CCC▼GGG	200	**FERFD0664**	57.00
SnaBI (Eco105I)	TAC▼GTA	50	**FERFD0404**	60.00
SpeI (BcuI)	A▼CTAGT	50	**FERFD1254**	62.00
SphI (PaeI)	GCATG▼C	20	**FERFD0604**	52.00
SspI	AAT▼ATT	100	**FERFD0774**	66.00
StuI (Eco147I)	AGG▼CCT	100	**FERFD0424**	62.00
StyI (Eco130I)	C▼CWWGG	200	**FERFD0414**	55.00
SwaI (SmiI)	ATTT▼AAAT	200	**FERFD1244**	66.00
TaaI	ACN▼GT	20	**FERFD1364**	55.00
TaiI	ACGT▼	50	**FERFD1144**	71.00
TaqI	T▼CGA	400	**FERFD0674**	66.00
TatI	W▼GTACW	20	**FERFD1294**	107.30
TauI	GCSG▼C	20	**FERFD1654**	107.30
TfiI (PfeI)	G▼AWTC	50	**FERFD1784**	66.00
Tru1I	T▼TAA	50	**FERFD0984**	71.20
Tsp509I (TasI)	▼AATT	100	**FERFD1354**	73.00
TspRI (TscAI)	CASTG(2/-7)▼	100	**FERFD2104**	66.00
XapI	R▼AATTY	100	**FERFD1384**	71.00
XbaI	T▼CTAGA	300/ 750	**FERFD0684** **FERFD0685**	62.00/ 129.00
XhoI	C▼TCGAG	400/ 1200	**FERFD0694** **FERFD0695**	52.20/ 126.30

LOOKING FOR ADDITIONAL GENOMICS PRODUCTS?

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Visit **www.fishersci.com/lifescience/genomics**

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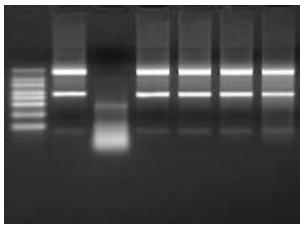
Prices subject to change.

Modifying Enzymes

Thermo Scientific™ RiboLock RNase Inhibitor

RiboLock RNase Inhibitor specifically inhibits the activity of RNases A, B and C, protecting RNA under a variety of reaction conditions

- Does not inhibit eukaryotic RNases T1, T2, U1, U2, CL3 as well as prokaryotic RNases I and H
- Performs under a wide range of reaction conditions
- Protects RNA from degradation at temperatures up to 55°C



DNA purification from low melting point agarose with Agarase.

Quality Control:

- The absence of ribonucleases, endo-, exodeoxyribonucleases and phosphatases and ribonucleases confirmed by appropriate quality tests
- Functionally tested in RNA and cDNA synthesis

Source:

- *E.coli* cells with a cloned gene encoding mammalian ribonuclease inhibitor

APPLICATIONS:

- Inhibition of RNA degradation in the following: *in vitro* transcription (1), cDNA synthesis (2), *in vitro* translation (3), isolation of mammalian cell fractions that contain mRNA-protein complex
- RNA purification and storage
- Separation and identification of specific ribonuclease activities
- Studies of tumor suppression

ORDERING INFORMATION: Orders placed Monday through Wednesday ship next day; Thursday and Friday orders ship the following Monday.

Size	Concentration	Mfr. No.	Cat. No.	Each
2500U	40U/µL	EO0381	**FEREO0381**	53.00
4 × 2500U	40U/µL	EO0382	**FEREO0382**	191.10
24 × 2500U	40U/µL	EO0384	**FEREO0384**	911.00

Thermo Scientific™ Modifying Enzymes

DNA and RNA modification enzymes for every molecular biology workflow. DNA and RNA polymerases, phosphatases, kinases, nucleases and other modifying enzymes.

Quality Guarantee

The stringent quality control procedures at Thermo Scientific consistently guarantee the highest quality of DNA/RNA modifying enzymes and other proteins.

Size	Concentration	Mfr. No.	Cat. No.	Each
Thermo Scientific T4 DNA Ligase				
1000U	5U/µL	EL0011	**FEREL0011**	195.80
5 × 1000U	5U/µL	EL0012	**FEREL0012**	722.50
HC, 5000U	30U/µL	EL0013	**FEREL0013**	721.50
200U	5U/µL	EL0014	**FEREL0014**	62.00
LC, 2 × 500U	1U/µL	EL0016	**FEREL0016**	195.80
Thermo Scientific T4 DNA Polymerase				
100U	1mL of 5X Reaction Buffer	EP0061	**FEREP0061**	46.00
200U	2 × 1mL of 5X Reaction Buffer	EP0062	**FEREP0062**	186.00
Thermo Scientific T4 Polynucleotide Kinase				
500U	10U/µL	EK0031	**FEREK0031**	46.90
2500U	10U/µL	EK0032	**FEREK0032**	189.60
Thermo Scientific TranscriptAid™ T7 High Yield Transcription Kit				
20µL	50	K0441	**FERK0441**	242.00
Thermo Scientific T7 RNA polymerase				
1mL of 5X	----	EP0111	**FEREP0111**	62.10
1mL of 5X	----	EP0112	**FEREP0112**	248.50
5 × 1mL of 5X	----	EP0113	**FEREP0113**	248.50
Thermo Scientific FastAP™ Thermosensitive Alkaline Phosphatase				
1000U	1000 reactions	EF0651	**FEREF0651**	64.70
5 × 1000U	5000 reactions	EF0652	**FEREF0652**	256.50

Thermo Scientific™ RNase A, DNase and Protease-Free

RNase A is an endoribonuclease that specifically degrades single-stranded RNA at C and U residues

- RNase A is free of DNase activity
- It is not necessary to heat it before use

Quality Control:

- The absence of endo-, exodeoxyribonucleases and proteases confirmed by appropriate quality tests
- Functionally tested for RNA digestion in a plasmid DNA purification procedure

Concentration:

- Protein concentration is determined by measuring the absorbance at 278nm using molar absorption coefficient is 9800M^{-1} cm^{-1} (7)

Source:

- Bovine pancreas

APPLICATIONS:

- Plasmid and genomic DNA preparation (3, 4)
- Removal of RNA from recombinant protein preparations
- Ribonuclease protection assays
- Used in conjunction with RNase T1 (3)
- Mapping single-base mutations in DNA or RNA (5, 6)

Size	Concentration	Mfr. No.	Cat. No.	Each
10mg	10mg/mL	EN0531	**FEREN0531**	40.40

Promega™ RNasin™ Ribonuclease Inhibitor

Ideal for any application where eukaryotic RNase contamination is a potential problem

- Inhibits a broad spectrum of RNases, including RNase A, RNase B, RNase C and human placental RNase
- Does not inhibit RNase T1, S1 nuclease, RNase from *Aspergillus*, RNase H or RNase ONE™ Ribonuclease
- Compatible with the use of other enzymes, including SP6, T7 or T3 RNA Polymerase, ImProm-II™, AMV or M-MLV Reverse Transcriptase and *Taq* DNA Polymerase
- Available as both natural and recombinant1 preparations

STORAGE:
Store at -20°C.

Type	Units	Concentration	Cat. No.	Each
Natural	2500	20–40U/µL	PR-N2111	214.75
	10,000	20–40U/µL	PR-N2115	527.70
Recombinant	2500	20–40U/µL	PR-N2511	120.86
	10,000	20–40U/µL	PR-N2515	293.53

Promega™ RNasin™ Plus RNase Inhibitor

Offers RNase protection during higher temperature RT reactions

Recombinant mammalian RNase inhibitor expressed as a soluble protein in *E. coli*. This protein can be purified by a combination of ion exchange and hydrophobic interaction chromatography, yielding a >90% pure protein with no *E. coli* RNase carryover.

- Inhibits eukaryotic RNases, including RNase A and RNase B, similar to human placental RNase inhibitor
- Compatible with enzymes such as AMV, M-MLV, and ImProm-II™ Reverse Transcriptases, as well as *Taq* and *Tfl* DNA Polymerases
- Offers increased resistance to oxidation over the human version of the protein
- May be heated in a mixture with RNase without reactivation of the RNase, even at temperatures as high as 70°C for 15 minutes
- Provides demonstrated compatibility with several RT-PCR systems, including Access, AccessQuick™ and *Taq*Man™-based RT-PCR Systems

STORAGE:
Store at -20°C.

Concentration	Quantity	Mfr. No.	Cat. No.	Each
40U/µL	2500U	N2611	**PR-N2611**	135.29
40U/µL	10,000U	N2615	**PR-N2615**	341.89

Promega™ Enzymes

Enzymes are available in convenient, cost-effective concentrations that are economical and easy to pipet

PR-M Series

- The activity of each enyzme is 100% guaranteed through the expiration date on the vial
- Selected enzymes are available at high concentration and are designated by (HC)
- Many items have 24-month lifetimes
- Enzymes are rigorously tested for performance in the actual applications for which they are commonly used

STORAGE: Store as detailed on label.

Name†	Units‡	Conc.	Mfr. No.	Cat. No.	Each
Promega T4 DNA Ligase					
T4 DNA Ligase	100	1–3U/µL	M1801	**PR-M1801**	49.92
	500 (HC)	10–20U/µL	M1794	**PR-M1794**	202.80
	500	----	M1804	**PR-M1804**	197.60
Promega T4 DNA Polymerase					
T4 DNA Polymerase	100	5–10U/µL	M4211	**PR-M4211**	100.88
	500	----	M4215	**PR-M4215**	395.20
Promega T4 Polynucleotide Kinase					
T4 Polynucleotide Kinase	100	5–10U/µL	M4101	**PR-M4101**	57.20
T4 Polynucleotide Kinase	1000	----	M4103	**PR-M4103**	419.12
Promega T7 RNA Polymerase					
T7 RNA Polymerase	1000	10–20U/µL	P2075	**PR-P2075**	72.80
	10,000 (HC)	80U/µL	P4074	**PR-P4074**	405.60
Promega Alkaline Phosphatase, Calf Intestinal					
Alkaline Phosphatase, Calf Intestinal	1000	1U/µL	M1821	**PR-M1821**	81.12
	1000 (HC)	20U/µL	M2825	**PR-M2825**	81.12
Promega T4 RNA Ligase					
T4 RNA Ligase	500	10U/µL	M1051	**PR-M1051**	133.12
Promega RNase One™					
RNase ONE	1000	5–10U/µL	M4261	**PR-M4261**	115.44
	5000	5–10U/µL	M4265	**PR-M4265**	377.52

† HC= High Concentration
‡DNA polymerase kit includes 5µmoles each of dATP, dCTP, dGTP, dTTP at 10mM in water.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Transcription and Translation

Thermo Scientific™ T7 Cell-Free Expression Vectors

Optimized for in vitro transcription and translation of fusion proteins

Thermo Scientific T7 Cell-Free Expression Vectors (pT7CFE1) are cloning plasmids optimized to use with the Thermo Scientific 1-Step Human In Vitro Protein Expression System for in vitro translation (IVT) of tagged fusion proteins.

pT7CFE1 Plasmid Features:

- EMCV IRES at the 5' UTR promotes high-level translation of mRNAs
- MCS accommodates gene insertion via ten different restriction sites: Msc1, Nde1, BamH1, EcoR1, EcoRV, Pac1, Pst1, Sac1, Sal1, Not1 and Xho1
- Poly A sequence in the 3' region promotes mRNA stabilization and protection from nucleases
- T7 terminator ensures synthesis of accurate size mRNA transcripts
- Plasmid linearization may be accomplished with restriction sites between Poly A sequence and the T7 terminator region
- DNA at 0.5µg/µL in 10mM Tris-HCl, pH 8.5

PI88860

Item Name	Quantity	Cat No.	Each
pT7CFE1-CHis	10µg	**PI88860**	60.14
pT7CFE1-NHis	10µg	**PI88859**	60.14
pT7CFE1-NHA	10µg	**PI88861**	60.14
pT7CFE1-CHA	10µg	**PI88862**	60.14
pT7CFE1-NMyc	10µg	**PI88863**	60.14
pT7CFE1-CMyc	10µg	**PI88864**	60.14
pT7CFE1-NFtag	10µg	**PI88865**	60.14
pT7CFE1-CFtag	10µg	**PI88866**	60.14
pT7CFE1-NHA-CHis	10µg	**PI88867**	60.14
pT7CFE1-CGST-HA-His	10µg	**PI88868**	60.14
pT7CFF1-CGFP-HA-His	10µg	**PI88869**	60.14
pT7CFE1-NHis-GST	10µg	**PI88870**	57.00
pT7CFE1-NHis-GST-CHA	10µg	**PI88871**	57.00

Thermo Scientific™ 1-Step Human Coupled In Vitro Protein Expression Kits

Express full-length functional proteins in 90 minutes

The Human IVT Kits are unique HeLa cell lysate-based protein expression systems for in vitro translation or coupled transcription/translation reactions. Protein expression is performed in a single 90-minute reaction that can be extended for up to six hours with continued protein production up to 100µg/mL when combined with the optimized pT7CFE1 Expression Vector. The Human IVT Kits can express functional enzymes, phosphoproteins, glycoproteins and membrane proteins for immediate use in studying protein interactions, performing rapid mutational analysis and measuring activity.

Better Than Traditional Methods:

- HeLa cell-free extracts are capable of expressing proteins with post-translational modifications
- Protein translation is optimized with EMCV IRES element and other mRNA stabilizing elements

INCLUDES:
Complete kits contain HeLa cell lysate, accessory proteins, reaction mix, nuclease-free water, expression vector and a GFP-positive control vector

REQUIRES:
30°C incubator or water bath

1-Step Human Coupled IVT Kit - DNA, 40-rxn kit

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
1-Step Human Coupled IVT Kit - DNA	8-rxn kit	8 reactions of 25µL each	Six-component kit	**PI88881**	158.25
1-Step Human Coupled IVT Kit - DNA	40-rxn kit	40 reactions of 25µL each	Six-component kit	**PI88882**	617.18
Pierce Recombinant GFP Protein	20µg	----	0.5µg/mL solution	**PI88899**	75.96

Thermo Scientific™ 1-Step Human High-Yield In Vitro Translation Kits

Express up to 0.75mg per mL of functional protein in less than 16 hours

The Thermo Scientific 1-Step Human High-Yield In Vitro Translation (IVT) Kits enable the expression of functional proteins with 10 to 100 times greater yield per mL than other mammalian IVT systems.

The 1-Step High-Yield IVT System uses modified HeLa cell extracts to take advantage of the robust human translation machinery and generate functional full-length proteins. In this system, protein expression is performed in a proprietary dialysis device that allows a continuous supply of nucleotides, amino acids and energy generating substrates into the reaction while removing inhibitors of proteins synthesis. This continuous-exchange cell-free (CECF) system enables protein expression in an overnight incubation of up to 750µg/mL. The complete mini- and maxi-scale kits include all the components required for transcription and translation of a recombinant gene, including an optimized expression vector.

APPLICATIONS:

- Production of recombinant proteins for structural analysis
- Generate active proteins for protein interaction studies
- Perform rapid expression and characterization of mutant proteins
- Small-scale production of viral particles
- Incorporation of unnatural amino acids or toxic protein production

INCLUDES:
Complete kits contain cell lysate, reaction mix, accessory proteins, 5X dialysis buffer, control DNA, cloning vector, mini dialysis devices and centrifuge tubes

REQUIRES:
30°C incubator or water bath (shaker incubator increases expression by 30 to 50%)

Item Name	Quantity	Sufficient For	Formulation	Cat No.	Each
1-Step Human High-Yield Mini IVT Kit	2 × 100µL kit	2 reactions of 100µL each	Multi-component kit	**PI88890**	235.00
1-Step Human High-Yield Mini IVT Kit	10 × 100µL kit	10 reactions of 100µL each	Multi-component kit	**PI88891**	1135.00
1-Step Human High-Yield Maxi IVT Kit	2 × 2mL kit	2 reactions of 2mL each	Multi-component kit	**PI88892**	3200.00

Promega™ BL21(DE3)pLysS Competent Cells

Allow high-efficiency protein expression of genes under the control of a T7 promoter and having a ribosome binding site

BL21(DE3)pLysS is lysogenic for λ-DE3 (1), which contains the T7 bacteriophage gene I, encoding T7 RNA polymerase (2) under the control of the lac UV5 promoter. BL21(DE3)pLysS also contains a plasmid, pLysS, which carries the gene encoding T7 lysozyme. T7 lysozyme lowers the background expression level of target genes under the control of the T7 promoter but does not interfere with the level of expression achieved following induction by IPTG.

- Contain an IPTG-inducible gene for T7 RNA polymerase
- Time-saving alternative to making competent cells
- 1mL is sufficient for ten transformations
- Available in 200µL aliquots
- Also available for single-use in 50µL aliquots

STORAGE:
Store at -70°C.

Description	Quantity	Mfr. No.	Cat. No.	Each
BL21(DE3)pLysS Competent Cells	5 × 200µL	L1191	**PR-L1191A**	172.66
Single-use BL21(DE3)pLysS Competent Cells	20 × 50µL	L1195	**PR-L1195**	211.51

Promega™ TNT™ Coupled Reticulocyte Lysate Systems

Single-tube, coupled transcription/translation systems for eukaryotic in vitro translations

- Produce data in as little as five to six hours, half the time of conventional two-step systems
- Provide two to six times the protein of standard translation reactions
- Compatible with linear or circular templates (T7 and T3 systems only; SP6 systems should be used with circular DNA only)
- Rigorously quality controlled to ensure the highest level of transcription/translation
- Available in configurations that permit co-expression of genes under the control of different phage polymerase promoters

STORAGE:
Store polymerase at -20° to -70°C; store luciferase assay wells at room temperature; store other components at -70°C. Do not freeze-thaw lysate more than two times.

INCLUDES:
TNT Rabbit Reticulocyte Lysate, Appropriate TNT polymerase, Control DNA, TNT Reaction Buffer, Luciferase assay wells, Luciferase assay reagent, Amino acid mixtures

Description	Quantity	Cat. No.	Each
TNT SP6 Coupled Reticulocyte Lysate System	8 rxns	**PR-L4600**	155.40
	40 rxns	**PR-L4601**	560.08
TNT T7 Coupled Reticulocyte Lysate System	8 rxns	**PR-L4610**	155.40
	40 rxns	**PR-L4611**	563.32
TNT T3 Coupled Reticulocyte Lysate System	40 rxns	**PR-L4950**	563.32
TNT T7/T3 Coupled Reticulocyte Lysate System	40 rxns	**PR-L5010**	563.32
TNT T7/SP6 Coupled Reticulocyte Lysate System	40 rxns	**PR-L5020**	582.74

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Promega™ TNT™ Quick Coupled Transcription/Translation System

Convenient cell-free system combines RNA polymerase, nucleotides, salts, amino acids and Recombinant RNasin™ Ribonuclease Inhibitor with reticulocyte lysate solution in a single TNT Quick Master Mix

- Optimized for transcription/translation of genes cloned downstream from either the T7 or SP6 RNA polymerase promoter
- Produces two- to six-fold more protein in a 60- to 90-minute reaction than do standard in vitro rabbit reticulocyte lysate reactions using RNA templates
- Includes Luciferase Control DNA; 40-reaction systems also include Luciferase Assay Reagent

STORAGE:
Store at -70°C; do not freeze-thaw the lysate more than two times.

NOTES: For Laboratory Use. Any use of the product for diagnostics requiring clearance or approval by the FDA may require a license under Mayo Clinic U.S. Patents 6,027,913 and 6,361,949.

Description	Quantity	Cat. No.	Each
TNT T7 Quick Coupled Transcription/Translation System	5 rxns	**PR-L1171**	155.40
	40 rxns	**PR-L1170**	569.79
TNT SP6 Quick Coupled Transcription/Translation System	5 rxns	**PR-L2081**	156.48
	40 rxns	**PR-L2080**	569.79

LOOKING FOR TRANSFECTION REAGENTS AND KITS?

For a wide variety of transfection reagents and kits, see Transfection/Transformation, or visit **www.fishersci.com/lifescience**

DELIVERING LIFE SCIENCE SOLUTIONS

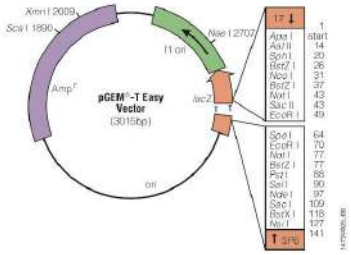
Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Cloning Systems and Vectors

Promega™ pGEM™-T and pGEM-T Easy Vector Systems

Convenient systems for the routine subcloning of PCR products

The pGEM-T Vector is prepared by cutting Promega's pGEM-5Zf(+) Vector with EcoR V and adding a 3' terminal thymidine to both ends. These single 3'-T overhangs at the insertion site greatly improve the efficiency of ligation of a PCR product into the plasmid.



PR-A1360

- 2X Rapid Ligation Buffer allows reactions to be completed in one hour at room temperature
- Blue/white screening can be used to directly identify recombinant clones, as T7 and SP6 RNA polymerase promoters flank a multiple cloning region within the !-peptide coding region for ß-galactosidase, permitting insertional inactivation of the α-peptide
- f1 Origin of Replication allows the preparation of single-stranded DNA

pGEM-T Vector Systems

- Multiple cloning site is flanked by recognition sites for the restriction enzyme BstZ I Single-enzyme digestion allows release of the insert
- Double digestion may also be used to release the insert from the vector

pGEM-T Easy Vector Systems

- Recognition sites for BstZ I, EcoR I and Not I flank the insertion site
- Several options are available for removal of the desired insert DNA with a single restriction digestion

INCLUDES:
Vector, Control insert DNA, T4 DNA ligase, Ligation buffer, High efficiency competent cells (Cat. Nos. PR-A3610 and PR-A1380 only)

Description	Quantity	Mfr. No.	Cat. No.	Each
pGEM-T Vector System I	20 rxns	A3600	**PR-A3600**	144.61
pGEM-T Vector System II	20 rxns	A3610	**PR-A3610**	264.39
pGEM-T Easy Vector System I	Ea.	A1360	**PR-A1360**	175.90
pGEM-T Easy Vector System II	20 rxns	A1380	**PR-A1380**	294.61

WHEATON

Before You Buy **Glass Containers**

Cleaning the Container:

- Although most types of glass are sterilizable by either steam or dry heat, certain techniques are recommended for specific types of glass.
- Borosilicate glass is suitable, when proper techniques are followed, for sterilization and de-pyrogenation.
- Soda-lime glass is not recommended for repeated steam sterilization, although this may be appropriate on a single use basis.

Choosing the Container:

- Determine whether your application requires a borosilicate glass or soda-lime glass container. Borosilicate glass can be used in all applications since it is the most unreactive glass available. This type of glass is resistant to extreme temperatures and is resistant to chemical corrosion. Other features of this glass are low pH shift and low extractables.
- Soda-Lime glass is an economical alternative to borosilicate glass. Containers made of soda-lime glass are typically general purpose containers used for packaging dry powders and liquids in the laboratory. They offer moderate chemical resistance.
- Determine the appropriate size container that is needed for your application. Also, if the opening of the container needs to be small for accurate pouring or large enough to accommodate a scoop for removal of the sample from the container.
- Determine if your application requires an amber or safety coated container. Amber containers are needed for light sensitive samples and plastisol safety coating can help contain the contents if the container is accidentally dropped.

Choosing a Closure:

- The choice of a closure is very important to the integrity of your sample. Wheaton offers many screw thread black phenolic or white polypropylene closures with variety of liners.
- The selection of the liner is by far the most important step in determining the success or failure of your container. The liner must have chemical resistance to the contents, sealing ability against moisture/gas adsorption or loss, leakage, pressure buildup and corrosive contents.

FEATURES	AC ROUND	BOSTON ROUND	FRENCH SQUARE BOTTLES	LAB 45 BOTTLES	MEDIA BOTTLES	VALUMETRIC BOTTLES
GLASS TYPE	USP Type III	USP Type III	USP Type III	USP Type I	USP Type I	USP Type III
TYPE OF NECK OPENING	Wide	Narrow	Wide	Wide	Narrow	Wide
GRADUATED	No	No	No	Yes	Yes	Yes
CLEAR GLASS	Yes	Yes	Yes	Yes	Yes	Yes
AMBER GLASS	No	Yes	No	No	Yes*	No
SAFETY COATED PRODUCT AVAILABLE	No	Yes	No	Yes	Yes	No

**125mL size only*

Containers

Bins/Boxes

Fisherbrand® Workstation Storage/Dispenser Bins

Excellent space-saving storage

Ideal for holding and dispensing pipet tips, microcentrifuge tubes, finger cots, cotton swabs, alcohol packs or any small items used in the laboratory.

- Clear acrylic front with white acrylic sides and back
- Provide easy content identification and keep items dust free
- Front hinged cover provides large opening for easy removal
- Removable top cover for easy filling

03-340-194B, 03-340-194A

Size	L × W × H	Cat. No.	Each
Small	6 × 6.5 × 7" (15 × 16.5 × 17.8cm)	**03-340-194B**	132.20
Large	6 × 6.5 × 14" (15 × 16.5 × 35.5cm)	**03-340-194A**	170.60

Fisherbrand® Rectangular Storage Boxes

Made from recyclable cardboard

- Sliding box design
- Can be used to store a variety of samples such as slides, cassettes, specimens and seeds
- White interior/exterior for marking or labeling

14-101 Series

L × W × H	Cat. No.	Pack of 72
2.25 × 1.25 × 1.06" (57.15 × 31.75 × 26.92mm)	**14-101-A**	78.80
2.75 × 1.75 × 1.13" (69.8 × 44.45 × 28.70mm)	**14-101-B**	84.50
3 × 2 × 1.25" (76.20 × 50.8 × 31.75mm)	**14-101-C**	121.50
3.63 × 2.5 × 1.5" (92.20 × 63.5 × 38.10mm)	**14-101-D**	201.00

Fisherbrand® Tin Specimen Boxes

Excellent for sample collection and storage

- Round seamless tin
- Low-form, flat bottom
- With label on lid

03-490 Series

Capacity	Outside Dia. × H	Cat. No.	Pack of
0.5 oz. (15mL)	1.5 × 0.5" (38 × 13mm)	**03-490A**	144/142.93
1 oz. (30mL)	2.0 × 0.62" (51 × 16mm)	**03-490B**	72/137.37
2 oz. (60mL)	2.37 × 0.75" (60 × 19mm)	**03-490C**	72/176.86
4 oz. (120mL)	3.12 × 0.93" (79 × 24mm)	**03-490D**	36/167.13

Thermo Scientific™ Nalgene™ Pipet Box Holder, Acrylic

Accommodate bags, boxes, pipet canisters or 1 to 100mL individually wrapped serological pipets

- Clear acrylic organizers allow you to view their contents easily and keep your small lab items neatly organized and within reach
- Can withstand brief exposure to dilute acids and bases. Alcohols, organic solvents and strong acids may cause immediate damage
- Has up to two horizontal compartments

13-715A

Outside Dimensions	Mfr. No.	Cat. No.	Each
6 × 6 × 6" (15.2 × 15.2 × 15.2cm)	5810-0002	**13-715A**	98.70

Thermo Scientific™ Nalgene™ Dispensing Bins, All-Purpose, Acrylic

Provide convenient, easy dispensing of small lab items

- Clear acrylic organizers allow you to view their contents easily and keep your small lab items neatly organized and within reach
- Can withstand brief exposure to dilute acids and bases. Alcohols, organic solvents and strong acids may cause immediate damage

15-350-85B

Description	L × W × H	Mfr. No.	Cat. No.	Each
Top Dispensing Bin	6 × 6 × 6" (15 × 15 × 15cm)	5830-0001	**15-350-85A**	98.30
Front Dispensing Bin	6 × 6 × 6" (15 × 15 × 15cm)	5830-0002	**15-350-85B**	105.50

Thermo Scientific™ Nalgene™ Stackable Drawer, All-Purpose, Acrylic

Nest for high-density storage and can be mounted under a shelf or cabinet with provided screws

- Clear acrylic organizers allow you to view their contents easily and keep your small lab items neatly organized and within reach
- Can withstand brief exposure to dilute acids and bases. Alcohols, organic solvents and strong acids may cause immediate damage

15-350-87

Description	L × W × H	Mfr. No.	Cat. No.	Each
Drawer	4.5 × 9 × 9" (11.4 × 22.9 × 22.9cm)	5832-0001	**15-350-87**	154.30

Thermo Scientific™ Nalgene™ Utility Boxes; SAN, White LDPE Lid with White SAN Insert

Available in four different sizes and shapes for multipurpose lab storage

Attractive, easy-to-clean, general purpose laboratory storage boxes. Not leakproof.

03-484-B to -E and 03-484-J

- Manufactured from clear styrene-acrylonitrile with tight-fitting, molded, white, LDPE lids that include inserts to store and keep items dry and secure
- Withstand temperatures down to -25°C (-13°F) — good for freezer storage and short term storage of nonvolatile liquids
- Stackable for high-density storage
- Cat. No. 03-484C is ideal for electrophoresis gels

Capacity	L × W × H	Mfr. No.	Cat. No.	Pack of	Case of
10 oz. (325mL)	5 × 3 × 2.3" (13 × 7 × 6cm)	5700-0325	**03-484B**	4/85.60	6 Pk./346.00
16 oz. (500mL)	7.5 × 6 × 1.5" (19 × 16 × 4cm)	5700-0500	**03-484C**	2/64.10	6 Pk./259.50
32 oz. (1000mL)	5 × 2.9 × 6.9" (13 × 7 × 18cm)	5700-1000	**03-484D**	2/71.30	6 Pk./288.50
64 oz. (2000mL)	7.5 × 6 × 4" (19 × 16 × 10cm)	5700-2000	**03-484E**	1/45.45	8 Ea./245.00

Jars

Pyrex™ Brand Cylindrical Jars

Can also be used as animal jars

General-purpose cylindrical jars are suitable for use as instrument covers and solution containers.

11-823J

- Mold-blown to ensure uniformity
- Uniform wall thickness provides mechanical strength
- Without handle
- No flange at open end
- Open end of these jars is ground flat

NOTES:
Do not use with heat, pressure or vacuum applications.

Capacity	O.D. × H	Mfr. No.	Cat. No.	Each	Case of 4
7.5L (2 gal.)	8.75 × 10" (22.2 × 25.4cm)	6942 7L	**11-823E**	----	1383.00
9.25L (2.50 gal.)	10.12 × 10" (25.7 × 25.4cm)	6942 9L	**11-823G**	506.50	----
17L (4.50 gal.)	12 × 12" (30.5 × 30.5cm)	6942 17L	**11-823J**	692.00	----

Sample/Disposable

Fisherbrand® Multipurpose Specimen Storage Containers

Designed for collection, transport and storage of liquid and dry specimens and samples; nonsterile

14-955-1 Series

- Inert to most chemicals including formaldehyde, weak acids and all bases
- Resist freezing and boiling
- Stackable for compact storage
- Some containers are autoclavable; lids not autoclavable

Capacity	O.D. × H	Autoclavable Container	Cat. No.	Case of
Translucent				
4 oz. (118mL)	2.87 × 2.22" (7.30 × 5.65cm)	Yes	**14-955-114A**[1]	300/153.92
5 oz. (148mL)	2.89 × 2.65" (5.78 × 6.73cm)	Yes	**14-955-114B**[2]	300/153.67
8 oz. (237mL)	3.74 × 2.20" (9.49 × 5.60cm)	No	**14-955-115A**[1]	100/101.63
8 oz. (237mL)	3.07 × 3.41" (7.81 × 8.66cm)	No	**14-955-116A**[2]	100/89.06
16 oz. (473mL)	3.67 × 4.26" (9.31 × 10.81cm)	No	**14-955-117A**	100/101.61
32 oz. (1100mL)	4.50 × 5.24" (11.44 × 13.32cm)	Yes	**14-955-118A**[3]	100/175.12
64 oz. (1900mL)	5.78 × 6.13" (14.68 × 15.58cm)	No	**14-955-119A**	50/143.95
86 oz. (2500mL)	5.82 × 7.47" (14.79 × 18.98cm)	No	**14-955-120A**	25/101.53
172 oz. (5100L)	8.66 × 6.98" (22.0 × 17.72cm)	No	**14-955-121A**	10/70.64
White				
8 oz. (237mL)	3.74 × 2.21" (9.50 × 5.61cm)	No	**14-955-115B**[1]	100/98.56
8 oz. (237mL)	3.07 × 3.39" (7.81 × 8.61cm)	No	**14-955-116B**[2]	100/98.82
16 oz. (473mL)	3.69 × 4.20" (9.38 × 10.68cm)	No	**14-955-117B**	100/98.51
32 oz. (1100mL)	4.53 × 5.23" (11.50 × 13.29cm)	Yes	**14-955-118B**[3]	100/175.12
64 oz. (1900mL)	5.80 × 6.13" (14.74 × 15.58cm)	No	**14-955-119B**	50/139.63
86 oz. (2500mL)	5.83 × 7.52" (14.8 × 19.11cm)	No	**14-955-120B**	25/98.52
172 oz. (5100mL)	8.58 × 6.99" (21.79 × 17.75cm)	No	**14-955-121B**	10/68.90

[1] *Short/wide style*
[2] *Tall/thin style*
[3] *Graduated*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Corning™ Snap-Seal™ Disposable Polypropylene Sample Containers

Designed for a wide variety of applications and provide a reliable leak-tight seal when closed properly

- Convenient one-handed operation
- Manufactured from recyclable, translucent polypropylene with straight sides and flat bottoms
- Snap-Seal locking device keeps the cap closed and secure
- Ideal for liquids or solids
- Graduated in milliliters and ounces
- Hinged cap with rough surface for marking with pen or pencil
- Patented sealing mechanism provides leak-resistant seal

02-540 Series

Capacity	Mfr. No.	Cat. No.	Case of
0.45 oz. (13mL)	1730 5X	**02-540-13**	500/151.50
1.5 oz. (45mL)	1730 2C	**02-540-15**	400/158.96
4 oz. (120mL), High-profile	1730 4H	**02-540-17**	200/104.36
4 oz. (120mL), Low-profile	1730 4L	**02-540-19**	200/104.36
8 oz. (240mL)	1730 8	**02-540-21**	100/77.05
10 oz. (300mL)	1730 10	**02-540-23**	100/86.95

Corning™ Graduated Disposable Polypropylene Beaker

Excellent chemical resistance

- Flexible polypropylene beakers
- Hold up to 250mL; graduated in milliliters and ounces
- Sterile and certified nonpyrogenic
- Available with or without snap-on polyethylene lids

ORDERING INFORMATION:
Beakers with lids, individually packaged; without lids, packaged 20 per sleeve.

02-540-10

Description	Mfr. No.	Cat. No.	Case of
With snap-on lids	430179	**02-540-10**	100/284.47
Without lids	430180	**02-540-11**	500/913.87

Corning™ Polyethylene Lids for Graduated Disposable Polypropylene Beakers

These replacement snap-on polyethylene lids fit on the Corning 250mL containers 02-540-11.

Certified nonpyrogenic.

- Snap-cap style
- Cap material: high density polyethylene
- Sterile

02-540-12

Material	Style	Mfr. No.	Cat. No.	Case of 500
Polypropylene	Snap-cap style	430181	**02-540-12**	309.00

Sample/Reusable

Fisherbrand® Reusable Aluminum Sample Container

Excellent for moisture determinations in soil analysis

Collect soil in this container, weigh it, then dry it in oven. Moisture content is determined by re-weighing soil after drying.

- Round seamless aluminum
- Recommended for general use

03-485C

Dia. × H	Cat. No.	Each	Pack of 12
3.5 × 2" (8.9 × 5cm)	**03-485C**	47.50	477.50

Thermo Scientific™ Nalgene™ Large Cylindrical Containers with Covers; HDPE

Ideal for storing and transporting dry and solid materials, specimens and general lab supplies

- High-density polyethylene containers provide excellent chemical and temperature resistance protecting contents from contamination
- Easy-grip molded-in handles are comfortable and durable for lifting and moving
- Positive-lock lid provides a tight seal for transport or storage

CERTIFICATIONS:
NSF approved for food and beverage storage.

11-843J

Capacity	Dia. × H	Mfr. No.	Cat. No.	Each	Case of 6
4 gal. (15L)	12 × 9 in. (30.5 × 24cm)	7142-0015	**11-843H**	80.05	320.51
5.25 gal. (20L)	12 × 15 in. (30.5 × 38cm)	7142-0020	**11-843J**	119.04	475.96
8 gal. (30L)	15.5 × 12 in. (39 × 30.5cm)	7142-0030	**11-843K**	124.46	497.75

Specialty

Fisherbrand® Collapsible 4-Liter Sample Containers

Can be stacked when not in use to save space

- Graduated from 500 to 3500mL
- Wide mouth in two diameters for easy sample entry and pouring
- Containers made of durable LDPE with extra-strong seams that virtually eliminate leakage
- Amber tinted to inhibit ultraviolet degradation of the sample
- Inert to most aqueous- and alcohol-based solutions
- Screw-on cap, handle for convenient transporting and a detachable identification tag
- Designed for, but not limited to, urine collection

NOTES:
Do not use for solutions containing nitric acids.

14-375-115

Opening Diameter	Cat. No.	Case of 100
1.50" (38mm)	**14-375-115**	355.00
2.50" (63mm)	**11-375-115B**	633.00

Thermo Scientific™ Certified Cubitainers™; LDPE

Excellent for transporting to remote sampling sites

- LDPE container with white LDPE foam-lined polypropylene cap
- Caps assembled onto containers
- Closure size: 38-400
- Collapsible and nestable when empty for space saving storage and transport
- Narrow-mouth design recommended for collecting water samples and other low viscous liquids

05-719 Series

Includes:

Certified containers come with the following features:

- Certified to meet or exceed EPA performance-based standards for metals, cyanide and fluoride
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each container individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence

CERTIFICATIONS:
Certified to meet certain U.S. EPA analyte specifications for metal analysis. Individually barcoded with lot number and individual container number for complete traceability to enclosed Certificate of Analysis.

NOTES: Cubitainer is a registered trademark of Hedwin Corporation.

Volume	Description	Mfr. No.	Cat. No.	Case of
1 gal. (4L)	LDPE Cubitainer	314-0001	**05-719-303B**	12/118.10
5 gal. (20L)	LDPE Cubitainer	314-0005	**05-719-304**	4/60.50
2.5 gal. (9.5L)	LDPE Cubitainer	314-0025	**05-719-307**	12/147.90
.25 qt. (1L)	LDPE Cubitainer	314-1000	**05-719-308**	12/82.50

Thermo Scientific™ Nalgene™ InVitro Biotainer™ Bottles; HDPE

Excellent for freezing, storing and transporting biological reagents

All Biotainers are sterilized by gamma irradiation to a Sterility Assurance Level (SAL) of 10^{-6}.

- Closures feature silicone-lined polypropylene 38mm closure for leakproof assurance
- Sterile and ready to use, eliminating the costs associated with in-house cleaning and maintenance of associated validations
- Supported by extensive validation documentation
- HDPE Biotainers are suitable for storage
- Temperature range of -100° to +120°C

02-540-267

COMPLIANCE:
USP Class VI, Non-cytotoxic, USP <661>, Non-pyrogenic, FDA 21CFR 177.1520

Packaging Style	Mfr. No.	Cat. No.	Case of 24
8/Pack, 3 packs/case	3751-42	**02-540-267**	478.50
8/Pack, 3 packs/case, Individually shrink seal bands around neck/closure	3750-24	**02-540-268**	495.00
Bulk pack, 24/case	3751-24	**02-540-269**	445.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® 4 oz. Specimen Containers

Supplied with a full-turn screw thread cap, which ensures a leak-resistant seal

- Translucent polypropylene
- Graduated in both oz. and mL
- Tolerate strong acids and bases and most organic solvents

16-320-730

ORDERING INFORMATION:
Sterile containers are individually wrapped with an integrity seal. Nonsterile container bases are packaged in sleeves of 25. White caps packaged separately.

Cap Color	Sterile	Packaging	Cat. No.	Case of
Blue	Yes	Individually Wrapped	**16-320-730**	100/111.31
White	No	Bulk, Sleeved	**16-320-731**	500/320.82

Specimen

Fisherbrand® Polypropylene Graduated Specimen Containers

Ideal for specimen collection, transportation and storage

- Autoclavable
- Graduated
- With or without nonautoclavable polyethylene snap lid

14-955-105

ORDERING INFORMATION:
Sterile containers with lids are individually wrapped. Nonsterile and sterile containers without lids are bulk packed.

Capacity	Sterile	With Lid	Cat. No.	Case of
4.5 oz. (133mL)	Yes	Yes	**14-955-102**	100/166.90
	Yes	No	**14-955-101**	500/188.30
	No	No	**14-955-103**	500/210.50
8 oz. (237mL)	Yes	Yes	**14-955-105**	100/196.60
	Yes	No	**14-955-104**	500/415.00
	No	No	**14-955-106**	500/312.50

ACCESSORIES

Fisherbrand® Polypropylene Graduated Container Lids

For polypropylene graduated containers 14-955-101, 14-955-103, 14-955-104 and 14-955-106

- Polyethylene
- Cannot be autoclaved

Lid Type	Cat. No.	Case of 500
Sterile	**14-955-107**	162.50
Nonsterile	**14-955-108**	160.80

Tanks

Thermo Scientific™ Nalgene™ Heavy Duty Rectangular Tank with Cover; LLDPE

Ideal as a dip tank or for soaking labware

- Molded as one piece, no seams
- Good chemical resistance
- Nominal wall thickness is 5/32 in. (3.97mm)
- Stepped flange at top provides reinforcement and grip for lifting
- Not autoclavable

14-831-330 Series

NOTES: Tanks used at elevated temperatures or with high-specific-gravity liquids should have external support to prevent deformation.

Nominal Capacity	Nominal L × W × H	Mfr. No.	Cat. No.	Each
2 gal. (8L)	8 × 8 × 8 in. (20 × 20 × 20cm)	14100-0002	**14-831-330H**	136.30
5 gal. (20L)	10 × 10 × 14 in. (25 × 25 × 36cm)	14100-0005	**14-831-330J**	172.90
8 gal. (30L)	12 × 12 × 12 in. (30 × 30 × 30cm)	14100-0010	**14-831-330A**	172.90
10 gal. (38L)	18 × 12 × 12 in. (45 × 30 × 30cm)	14100-0015	**14-831-330B**	225.00
13 gal. (50L)	24 × 12 × 12 in. (61 × 30 × 30cm)	14100-0020	**14-831-330K**	260.50
16 gal. (60L)	18 × 12 × 18 in. (45 × 30 × 45cm)	14100-0040	**14-831-330C**	275.50
32 gal. (120L)	24 × 18 × 18 in. (61 × 45 × 45cm)	14100-0045	**14-831-330D**	377.00
40 gal. (160L)	24 × 18 × 24 in. (61 × 45 × 601m)	14100-0065	**14-831-330R**	519.00

Thermo Scientific™ Nalgene™ Lightweight Graduated Cylindrical Tank; LLDPE

External flange at rim for extra strength

- Approximate wall thickness, 0.09" (2.4mm)
- 55-gallon size can be used as liner for steel drums
- Available with spigot for drawoff (Cat. No. 54102)
- Not autoclavable

14-834-29 Series

NOTES: Nalgene recommends that all tanks used at elevated temperatures or with high-specific-gravity liquids be externally supported.

Capacity	Graduations	Outside Dia. x D	Mfr. No.	Cat. No.	Each
With Cover					
5 gal. (19L)	0.5 gal./2L	11 × 15" (27.9 × 38.1cm)	54100-0005	**14-834-29A**	131.10
7.5 gal. (28L)	0.5 gal.	12 × 18" (30.5 × 45.7cm)	54100-0007	**14-834-29B**	181.60
15 gal. (57L)	1 gal./5L	13 × 28" (33.0 × 71.1cm)	54100-0015	**14-834-29D**	179.30
30 gal. (114L)	2.5 gal./10L	18 × 30" (45.7 × 76.2cm)	54100-0030	**14-834-29E**	218.00
55 gal. (208L)	2.5 gal./10L	22 × 36" (55.9 × 91.4cm)	54100-0055	**14-834-29F**	320.00
With Cover and Spigots					
5 gal. (19L)	0.5 gal./2L	11 × 15" (27.9 × 38.1cm)	54102-0005	**14-834-31A**	208.00
10 gal. (38L)	1 gal./5L	13 × 20" (33.0 × 50.8cm)	54102-0010	**14-834-31C**	231.50
15 gal. (57L)	1 gal./5L	13 × 28" (33.0 × 71.1cm)	54102-0015	**14-834-31D**	233.50
30 gal. (114L)	2.5 gal./10L	18 × 30" (45.7 × 76.2cm)	54102-0030	**14-834-31E**	271.00
55 gal. (208L)	2.5 gal./10L	22 × 36" (55.9 × 91.4cm)	54102-0055	**14-834-31F**	344.50

Thermo Scientific™ Nalgene™ Rectangular Polypropylene Tank with Cover; PP

Ideal for disinfecting biological waste; complies with USP Class VI and FDA requirements

- Suitable for use with many organic chemicals
- Offers good stress-crack resistance
- Tanks can be modified with factory installed spigot
- Autoclavable

14-831-110 to -115

NOTES:
It is recommended to use an exterior support with rectangular tanks used at elevated temperatures or with high-specific-gravity liquids.

Nominal Capacity	Nominal L × W × D	Mfr. No.	Cat. No.	Each
2 gal. (8L)	8 × 8 × 8 in. (20 × 20 × 20cm)	14200-0002	**14-831-110**	201.50
5 gal. (20L)	10 × 10 × 14 in. (25 × 25 × 36cm)	14200-0005	**14-831-111**	261.00
8 gal. (30L)	12 × 12 × 12 in. (30 × 30 × 30cm)	14200-0010	**14-831-112**	263.00
10 gal. (38L)	18 × 12 × 12 in. (46 × 30 × 30cm)	14200-0015	**14-831-113**	340.00
13 gal. (50L)	24 × 12 × 12 in. (61 × 30 × 30cm)	14200-0020	**14-831-114**	506.00
32 gal. (120L)	24 × 18 × 18 in. (61 × 45 × 45cm)	14200-0045	**14-831-115**	601.00

Thermo Scientific™ Nalgene™ Closed-Dome Tanks; PP

Excellent for closed-system preparation of media components and growing cultures

- Tanks may be fitted with spigots
- Tanks and closures are made of polypropylene and are autoclavable

COMPLIANCE:
Comply with FDA Reg. 177.1520 and USP Class VI

14-831-122

Capacity	O.D. × H	Mfr. No.	Cat. No.	Each
20 gal. (75L)	18.50 × 35" (42 × 81cm)	2650-0020	**14-831-124**	505.50
30 gal. (115L)	18.5 × 38.625" (47 × 98.1cm)	2650-0030	**14-831-122**	753.00
55 gal. (210L)	22 × 39.50" (56 × 100.3cm)	2650-0055	**14-831-123**	928.50

Thermo Scientific™ Nalgene™ Cylindrical Tank with Cover; PP

Economical and versatile

- Offers good stress-crack resistance
- Tolerates many organic chemicals
- Can be autoclaved
- Can be modified with factory-installed spigots
- Nalgene Tank Liners, Cat. No. 343050, are sold separately

14-831-100

NOTES:
Nalgene recommends that tanks be externally supported if used at elevated temperatures or with high-specific-gravity liquids.

Capacity	O.D. × D	Mfr. No.	Cat. No.	Each
5 gal. (19L)	11 × 15" (27.9 × 38.1cm)	11200-0005	**14-831-100**	220.00
7.5 gal. (28L)	12 × 18" (30.5 × 45.7cm)	11200-0007	**14-831-101**	307.00
10 gal. (38L)	13 × 20" (33 × 51cm)	11200-0010	**14-831-102**	313.50
15 gal. (57L)	13 × 27" (33.0 × 69cm)	11200-0015	**14-831-332E**	341.50
30 gal. (114L)	18 × 30" (45.7 × 76.2cm)	11200-0030	**14-831-104**	442.50
55 gal. (208L)	22 × 36" (55.9 × 91.4cm)	11200-0055	**14-831-105**	690.00
100 gal. (378L)	28 × 44" (71 × 112cm)	11200-0100	**14-831-108**	1155.00

Thermo Scientific™ Nalgene™ Heavy Duty Cylindrical Tanks; LLDPE

Conform to USP Class VI

- Needle Type Tank Spigot Nalgene (Cat. No. 6421) is installed in tank to allow draw off
- 5/8 in. (15.9mm) I.D. tubing
- Offer good temperature and chemical resistance
- Not autoclavable

14-831-312A

INCLUDES:
Tank cover included

NOTES:
All Nalgene tanks used at elevated temperatures or with high-specific-gravity liquids should be externally supported.

Capacity	Outside Dia. × D	Mfr. No.	Cat. No.	Each
With Cover				
5 gal. (19L)	11 × 15" (28 × 38cm)	11100-0005	**14-831-310A**	144.40
7.5 gal. (28L)	12 × 18" (30 × 46cm)	11100-0007	**14-831-310E**	203.00
10 gal. (38L)	13 × 20" (33 × 51cm)	11100-0010	**14-831-310F**	193.80
15 gal. (57L)	13 × 27" (33 × 69cm)	11100-0015	**14-831-310B**	214.50
30 gal. (113L)	18 × 30" (46 × 76cm)	11100-0030	**14-831-310C**	283.50
55 gal. (208L)	22 × 36" (56 × 91cm)	11100-0055	**14-831-310D**	409.50
With Cover and Spigot				
5 gal. (19L)	11 × 15" (28 × 38cm)	11102-0005	**14-831-312A**	215.50
7.5 gal. (28L)	12 × 18" (32 × 46cm)	11102-0007	**14-831-312B**	273.50
10 gal. (38L)	13 × 20" (13 × 20cm)	11102-0010	**14-831-312C**	273.50
15 gal. (57L)	13 × 27" (13 × 27cm)	11102-0015	**14-831-312D**	291.50
30 gal. (114L)	18 × 30" (18 × 30cm)	11102-0030	**14-831-312E**	337.00
55 gal. (208L)	22 × 36" (22 × 36cm)	11102-0055	**14-831-312F**	476.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Akro-Mils™ Akro-Grid Storage Totes

With optional lengthwise and crosswise dividers for smaller storage

These lightweight totes facilitate work-in-progress transfers; enable compartmentalized storage for items used in concert.

- Offer hundreds of storage configurations; can be subdivided down to a 1-1/8" square
- Injection-molded from polypropylene block copolymer
- Resist most solvents and chemicals
- Available in three sizes with the same footprint for secure stacking
- Stacking rims and external ribbing add strength
- Compatible with most racks, shelving and automated material handling equipment
- Dividers, lids and label holder sold separately

08-757-606

Description/ Capacity	Color	Outer Dimensions (L × W × H)	Inner Dimensions (L × W × H)	Mfr. No.	Cat. No.	Case of
0.61 cu. ft./30 lb.	Blue	22.37 × 17.37 × 4" (56.8 × 44 × 10cm)	(20 to 20.06) × (15 to 15.06) × 3.9" ((50.8 to 51) × (38 to 38.2) × 10cm)	33224BLUE	**08-757-606**	6/133.40
0.96 cu. ft./40 lb.	Blue	23.37 × 17.37 × 6" (59.3 × 44 × 15.2cm)	(19.9 to 20.12) × (14.9 to 15.12) × 5.9" ((50.5 to 51.1) × (37.8 to 38.4) × 15cm)	33226BLUE	**08-757-655**	4/105.00
1.66 cu. ft./50 lb.	Blue	22.37 × 17.37 × 10" (56.8 × 44 × 25.4cm)	(14.62 to 15) × (9.06 to 9.31) × 7.6" ((37.1 to 38.1) × (23 to 23.6) × 19.3cm)	33220BLUE	**08-757-690**	2/69.50

Corks

Fisherbrand® Cork Stoppers – Laboratory Grade

Punched out from natural cork wood and tapered to size, stoppers are 100% natural and are safe to use in the packaging and/or processing of food

07-782 and 07-792 Series

Size No.	Length	Top Dia.	Bottom Dia.	Cat. No.	Pack of
0	0.5" (12.7mm)	0.375" (9.5mm)	0.281" (7.1mm)	**07-782C**	500/59.79
00	0.5" (12.7mm)	0.312" (7.9mm)	0.21" (5.3mm)	**07-782B**	500/70.30
1	0.625" (15.9mm)	0.43" (10.9mm)	0.328" (8.3mm)	**07-782D**	500/63.69
2	0.687" (17.4mm)	0.5" (12.7mm)	0.375" (9.5mm)	**07-782E**	500/64.74
3	0.75" (19.1mm)	0.56" (14.2mm)	0.421" (10.7mm)	**07-782F**	500/63.13
4	0.812" (20.6mm)	0.625" (15.9mm)	0.468" (11.9mm)	**07-782G**	500/67.77
5	0.875" (22.2mm)	0.62" (15.7mm)	0.531" (13.5mm)	**07-782H**	500/92.62
6	0.937" (23.8mm)	0.75" (19.1mm)	0.57" (14.5mm)	**07-782J**	500/108.58
7	1" (25.4mm)	0.812" (20.6mm)	0.625" (15.9mm)	**07-782K**	500/102.72

Fisherbrand® Cork Stoppers – Superior Grade

Corks are cut from high-quality wood and are selected to meet superior standards

Size No.	Top Dia.	Bottom Dia.	Cat. No.	Pack of
2	0.50" (12.7mm)	0.375" (9.5mm)	**07-792C**	500/84.84
4	0.625" (15.9mm)	0.468" (11.9mm)	**07-792E**	500/95.45
7	0.812" (20.6mm)	0.625" (15.9mm)	**07-792H**	500/156.30

Humboldt Boring Machine for Cork/Rubber Stoppers

Rugged, versatile machine bores holes in any part of stopper, from 3/16 to 5/8"

- Adjustable guide: bore holes in any part of stopper
- Eight steel borers, from 3/16 to 5/8" O.D. (4.8 to 16mm) in 1/16" (1.6mm) increments
- Composition base holds stopper firmly while boring; can mount to table for extra stability
- Setscrew holds boring shaft for initial alignment; turn handle of weighted wheel to bore hole
- Punch included for removing extracted cork
- Attached rack holds borers not in use
- Constructed of enamel-coated steel with nickel-plated shaft, chuck and punch

07-855

Cat. No.	Each
07-855	754.00

Cotton

Fisherbrand® Nonsterile Cotton Balls

- Uniform in size and shape
- Made of pure, natural, bleached cotton for increased absorbency
- Available in medium size and bulk roll

ORDERING INFORMATION:
For the sterile version of 22-456-880, please order 22-456-885.

22-456-880

Description	Weight of Ball or Roll	Cat. No.	Each	Case of
Medium	0.01 oz. (0.30g)	**22-456-880**	----	4000/54.37
Roll	1 lb. (454g)	**22-456-881**	42.01	25/875.20

Counters

Fisherbrand® Digital Counter

Solid-state construction and single, tactile-feel "click" button ensures accurate operation without gear and miscount problems

Fits in hand and stands on bench.

- Easy-to-read 0.25" LCD tallies up to 99,999
- Fail-safe design prevents unintentional reset
- Housed in a rugged but lightweight ABS plastic case
- Unit is water- and shock-resistant — perfect for lab or plant use

07-905-2

ORDERING INFORMATION:
Dimensions:
0.83D × 1.66W × 2.62"H
(2.1 × 4.24 × 6.67cm).
Net weight: 1 oz. (28.3g).

INCLUDES:
1.5V Button Cell 375 Battery (02-440-1C), which powers unit for two years of continuous operation

Description	Cat. No.	Each
Digital Counter	**07-905-2**	28.95

Fisherbrand® Hand Tally Counter

For counting blood cells, drops of liquid, inventory items, etc.

Easily resets to zero.

- Tallies up to 9999; compact
- Chrome-finished metal construction for reliability, long life and hard usage

07-905-6

Description	Cat. No.	Each
Hand Tally Counter	**07-905-6**	41.61

Bal Supply Cell Counters

For automatic calculation including percentages

- At 100 increments the totalizing unit rings a bell
- Dual reset knobs
- Last unit is the totalizing unit, which records total number of strokes made on other keys
- Removable tabs on top of counter provide area for identification of classification being counted

02-670-14

Description	Mfr. No.	Cat. No.	Each
With eight counting units and totalizing unit	808C	**02-670-14**	827.03
With five counting units and totalizing unit	505C	**02-670-13**	606.00
With two counting units and removable tabs	202C	**02-670-12**	170.27

Bel-Art™ Scienceware™ Hand-Held Colony Counter

Simple-to-operate colony counter marks, counts and gives an audible and visual alert each time a count is registered.

- Fast, accurate and economical sample counting and sample count verification
- Stores up to 35 sample counts
- Verifies sample counts with up/down counting
- Displays sum total of all colonies counted

07-910-018

- Backlit display for easy viewing in low light conditions
- Audible alert can be turned off if desired
- Counting function can be locked to prevent error during breaks between counting
- Included felt-tip markers work on plastic or glass and are oil- and water-resistant; ink is removable with ethyl alcohol
- Colony Counting System comes complete with pen-style colony counter (07-910-018), mini-magnifier (07-910-13), mini-light box II (13-715-00), AC line current adapter and counting grid (07-910-12).

INCLUDES:
Long-life red and black felt-tip markers, 3V lithium battery, protective storage case.

Description	Mfr. No.	Cat. No.	Each	Case of
Hand-Held Colony Counter	37862-0002	**07-910-018**	244.00	4/999.50
Colony Counter System	37863-1000	**07-910-022**	640.00	----

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

Hausser™ Bright-Line™ Phase Hemacytometer

Counting chamber with reduced thickness for use on phase microscopes

02-671-6

- Provides accurate platelet counts
- Molded from durable Pyrex™ brand glass
- Pipets not included

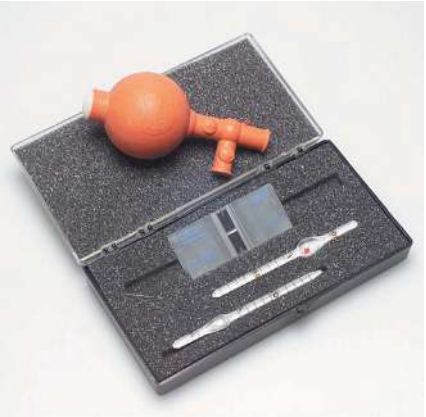
INCLUDES:
Two cover glasses

Description	Mfr. No.	Cat. No.	Each
Bright-Line Phase Hemacytometer	1475	**02-671-6**	277.50

Hausser™ Hy-Lite™ Counting Chamber Set

Supplied with polyethylene carrying case

INCLUDES:
Counting chamber (02-671-10), two cover glasses, two Thoma pipets (one for red and one for white corpuscles) and pipet filler



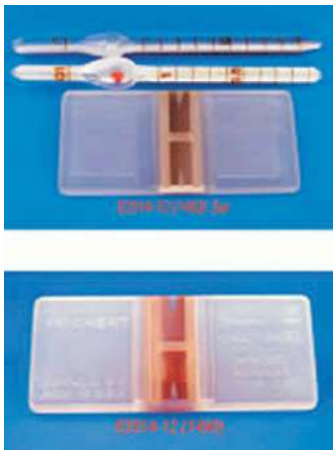
02-671-11

Description	Mfr. No.	Cat. No.	Each
Hy-Lite Counting Chamber Set	3120	**02-671-11**	310.50

Hausser™ Bright-Line™ Counting Chamber Set

Supplied in polyethylene carrying case

Flat, polished cover glass surface with supports produces an exact volume of fluid over the counting area.



02-672-5

- Counting chamber molded from a single piece of thermal and shock-resistant glass
- Two counting areas, or plateaus, separated by H-shaped moat with "V" slash on the loading side of each plateau to facilitate charing and reduce overflow
- Enhanced Neubauer rulings 0.1mm below the cover glass
- Volume of blood or fluid limited to 0.1cu.mm over a square mm or to 0.00025cu.mm for each of the 400 central squares
- Difference in surface tension characteristics between the metallic surface of the chamber and the polished cover glass assures smooth capillary action for precise loading and even cell distribution

INCLUDES:
Counting chamber (02-671-5), two cover glasses, one pipet for red blood cells, one pipet for white blood cells, pipet filler.

Description	Mfr. No.	Cat. No.	Each
Bright-Line Counting Chamber Set	1483	**02-672-5**	332.50

Hausser™ Bright-Line™ Counting Chambers

For accurate white blood cell, red blood cell and platelet counts

Difference in surface tension between cover glass and metal counting surface assures smooth capillary action for precise loading and more even cell distribution.

02-671-5

- Reichert™ Bright-Line Counting Chambers are molded from quartz Pyrex™ glass; Hausser Bright-Line Counting Chambers are milled from soda lime glass
- H-shaped moat forms two counting areas
- Thin metal surface on each counting area has double Neubauer rulings with 400 small squares in central 1mm square
- When viewed through microscope, rulings appear as white lines on dark background
- Flat, polished cover glass covers moat region 0.1mm above ruled surface
- V-shaped slashes at each loading side of counting chambers reduce overflow into moat
- Without pipets

INCLUDES:
Two 0.4mm cover glasses

Counting Chamber	Mfr. No.	Cat. No.	Each
Reichert Bright-Line	1492	**02-671-5**	258.50
Hausser Bright-Line	3100	**02-671-10**	236.00

Spectroline™ Microprocessor-Controlled UV Crosslinkers

Produce publication-quality results every time

From left: 11-992-90, 11-992-89

- Covalently bind nucleic acids to membranes in 30 seconds or less following Southern, Northern or dot blotting, and colony/plague lifts
- Eliminate PCR† contamination
- Four operating modes: Optimal Crosslink mode delivers energy doses of 120mJ/cm^2; Energy mode varies dosage from 100µJ/cm^2 to 0.9999J/cm^2; Time mode used for UV-induced gel polymerization, drying and sanitization; and Intensity mode permits continuous operation and provides accurate intensity readout
- Large LED display and built-in "Help" messages guide user through operations
- Programmable memory stores recently entered conditions — repetitive procedures begin with just the push of the START button
- Internal photo sensor measures only true shortwave UV radiation to ensure precise energy dosage to samples
- Individually calibrated and certified with safety interlock and UV-blocking door window
- Spectrolinker™ Series features anodized aluminum housing for corrosion resistance; Select™ Series offers painted sheet metal housing

Model	Chamber D × W × H	Includes	Cat. No.	Each
Spectrolinker Series with anodized aluminum housing				
XL-1000	7 1/2 × 13 1/2 × 7" (19 × 34 × 18cm)	Five 8w, 254nm UV tubes[1]	**11-992-89**	2180.00
XL-1500	12 1/2 × 18 1/4 × 6 1/4" (32 × 46 × 16cm)	Six 15w, 254nm UV tubes[1]	**11-992-90**	2510.00
Select Series with painted sheet metal housing				
XLE-1000	7 1/2 × 13 1/2 × 7" (19 × 34 × 18cm)	Five 8w, 254nm UV tubes	**11-982-20**	1518.00

[1]The Spectrolinker XL-1000 Crosslinker is also available with five 8w, 312nm or five 8w, 365nm UV tubes. The XL-1500 is available with six 15w, 312nm or six 15w 365nm UV tubes. For more information, contact your Fisher Scientific Customer Service Representative.

ON THE WEB...

Looking for more Crosslinkers?

Visit www.fishersci.com and search for Crosslinkers

UVP™ CL-1000 and CX-2000 Crosslinkers

UV crosslinking in only seconds

UVP95-0174-01

- Microprocessor-controlled UV sensor feedback system ensures maximum energy efficiency and UV output
- Preset or user-selected settings for UV energy and UV time exposure (preset exposure delivers 120,000 microjoules or five minutes of exposure)
- Maximum UV energy setting of 999,900 microjoules/cm^2
- Internal interlocking safety system; automatic shutoff of UV when door is opened
- Large LED readout continuously displays remaining time or energy UV-blocking window on door (or drawer of CX-2000 model) for viewing samples during exposure
- Choice of four models for applications requiring shortwave, midrange or longwave UV energy
- The CL-1000 and CX-2000 models use shortwave UV energy to bond DNA to media; For UV curing, CL-1000M utilizes midrange UV and CL-1000L uses longwave UV energy

ORDERING INFORMATION:

All CL-1000 series models feature a laydown-style door with a 12D × 10W × 5"H internal chamber. The CX-2000 model features a pull-out drawer with an 11.25D × 11.5W sample tray (3.5" from sample surface to lamp). All units supplied with five 8w UV tubes and removable power cord. Replacement tubes available separately.

Wavelength	Applications
Shortwave (254nm)	UV crosslinking of DNA/RNA to membranes after Northern or Southern blot or dot blottings and colony or plaque lifts Nicking ethidium bromide stained DNA in agarose gels Gene mapping for creating cleavage-inhibiting thymine dimers
Midrange (302nm)	Phototherapy UV crosslinking and curing Gradient sampling
Longwave (365nm)	Photochemistry UV curing Immunology research

Model	Wavelength	Mfr. No.	Cat. No.	Each
CL-1000	254nm	95-0174-01	**UVP95-0174-01**	2040.00
CL-1000L	365nm	95-0228-01	**UVP95 0228 01**	2040.00
CL-1000M	302nm	95-0230-01	**UVP95 0230 01**	2040.00
CX-2000	254nm	95-0339-01	**UVP95-0339-01**	2130.00

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Crucibles

Fisherbrand® Alumina Crucibles

Made up of 99.7% alumina

- Unglazed
- Maximum use temperature: 1750°C
- Resistant to alkalies, chemical attack and other fluxes
- Inert in hydrogen and carbonaceous atmospheres
- Color: cream

FB-960-I

Capacity	Height	Top O.D.	Mfr. No.	Cat. No.	Each	Case of 12
High Form						
0.0026 gal. (10mL)	1.2" (31mm)	1.2" (30mm)	HACHF-10	**FB-960-I**	43.95	529.50
0.0053 gal. (20mL)	1.41" (36mm)	1.57" (40mm)	HACHF-20	**FB-960-J**	58.50	711.50
0.0132 gal. (50mL)	2" (52mm)	1.89" (48mm)	HACHF-50	**FB-960-K**	103.80	1269.00
0.0264 gal. (100mL)	2.6" (66mm)	2.4" (60mm)	HACHF-100	**FB-960-L**	156.80	1917.00
0.0660 gal. (250mL)	3.7" (94mm)	3.15" (80mm)	HACHF-250	**FB-960-M**	144.29	865.75

Kimax™ Gooch Filtering Crucibles

Dry precipitates to constant weight at 110°C (230°F)

- At higher temperatures, heat in electric furnace
- Do not remove crucibles until temperature is reduced to about 250°C (482°F)
- Fritted disc
- Avoid exposure to sudden temperature changes
- Coarse (C), medium (M) and fine (F) porosities

08-235-1C

Porosity	Capac.	Disc Dia.	Approx. Height	Mfr. No.	Cat. No.	Pack of	Case of 6 Pack
Low Form							
C	30mL	30mm	50mm	28260 301	**08-235-1A**	2/103.69	453.33
M	30mL	30mm	50mm	28260 302	**08-235-1B**	2/94.76	413.94
F	30mL	30mm	50mm	28260 303	**08-235-1C**	2/103.69	453.33

ACCESSORIES

Fused Quartz Crucible Covers

For 08-072 Series Crucibles

- Transparent fused quartz

08-074 Series

For Crucible	For Use With	Cat. No.	Each	Pack of 12
30mL	08-072D	**08-074D**	80.01	820.76
100mL	08-072F	**08-074F**	97.81	1003.43

Pyrex™ Brand Gooch Type Filtering Crucibles

For drying precipitates to constant weight at 110°C (230°F)

- For higher temperatures, use electric furnace
- Fritted glass disc
- Avoid sudden temperature changes
- To avoid strain, do not remove from furnace until temperature drops to 250°C (482°F)

08-237-1C

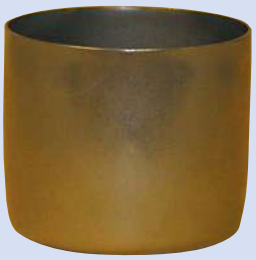
ORDERING INFORMATION:
For crucible holders, see 08-238B.

Porosity	Capac.	Disc Dia.	Approx. Height	Mfr. No.	Cat. No.	Price
Low Form						
Medium	30mL	30mm	50mm	32960 30M	**08-236-1B**	Ea./52.00
Fine	30mL	30mm	50mm	32960 30F	**08-236-1C**	Pk. of 3/169.00
High Form						
Coarse	30mL	30mm	60mm	32940 30C	**08-237A**	Ea./53.80
Medium	30mL	30mm	60mm	32940 30M	**08-237B**	Ea./69.10
Coarse	50mL	40mm	60mm	32940 50C	**08-237-1A**	Ea./68.20
Medium	50mL	40mm	60mm	32940 50M	**08-237-1B**	Ea./67.50
Fine	50mL	40mm	60mm	32940 50F	**08-237-1C**	Ea./60.90

Fisherbrand® Steel Crucibles

Withstand temperatures up to 500°C (932°F)

- Low-form
- Made from one-piece sheet steel
- Suitable for many alkali and peroxide fusions
- Cover sold separately



13-812-152

Capac.	I.D. × H	Cat. No.	Price
100mL	2.18 × 1.87" (56 × 48mm)	**13-812-152**	30.43

Fused-Quartz Crucibles

Withstand temperatures up to 1250°C (2282°F)

- Withstand severe temperature changes
- Insoluble in water and acids except hydrofluoric and phosphoric acids
- Covers sold separately

Capac.	Dia. × H	Cover Cat. No.	Cat. No.	Each	Pack of 12
10mL	1.125 × 1.18" (29 × 30mm)	08-074A	**08-072A**	54.44	557.87
20mL	1.38 × 1.5" (36 × 38mm)	08-074C	**08-072C**	57.24	586.85
30mL	1.69 × 1.5" (43 × 38mm)	08-074D	**08-072D**	61.27	628.25
100mL	2.44 × 2.63" (62 × 66mm)	08-074F	**08-072F**	89.84	920.63

08-072 Series

Fisherbrand® Nickel Crucibles

Withstand temperatures up to 800°C (1472°F)

- Drawn from one piece of heavy pure sheet nickel and trimmed to final form
- Highly resistant to dilute alkalis
- Covers are made from the same nickel material
- Covers sold separately

Capac.	Dia. × H	Cat. No.	Each
30mL	1.75 × 1.75" (44 × 44mm)	**13-812-127**	59.80
50mL	1.75 × 2" (44 × 51mm)	**13-812-128**	71.90

13-812-127

Fisherbrand® Zirconium Crucibles

Withstand about 100 two- to five-minute fusions between 460°C (860°F) and 900°C (1652°F)

- Ideal for sodium peroxide fusions conducted by hand over gas flame
- Made from a polished, solid zirconium strip

ORDERING INFORMATION:
2" dia. (51mm) covers are available, but must be requested at time of order

NOTES:
Temperatures above 900°C (1652°F) will damage and reduce the service life of the crucible

Capac.	I. D. × H	Cat. No.	Each
25mL	1.75 × 0.87" (44 × 22mm)	**13-812-122**	230.27
45mL	1.75 × 1.37" (44 × 34mm)	**13-812-124**	246.66

13-812-122

Fisherbrand® Nickel Chromium Crucible

Withstands temperatures up to 1000°C (1832°F)

- For volatile matter tests
- Also for ignition, ashing and incineration purposes where free acids are not present
- Determines volatile matter in coke
- Made of uniform nickel chromium alloy
- Cover sold separately

ORDERING INFORMATION:
Weight: 7 to 8g

Capac.	Dia. × H	Cat. No.	Each
13mL	1 × 1.31" (26 × 34mm)	**13-812-120**	86.43

13-812-120

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Wide-Form Porcelain Crucibles

Withstand temperatures up to 1150°C (2102°F)

- Glazed inside and out except for outside bottom surface and rim

ORDERING INFORMATION:
Covers available separately

FB-965-I

Capacity	Top Outer Dia. × Height	Wall Thickness	Unit Weight	Cat. No.	Pack of 6	Case of
0.27 oz. (8mL)	1.25 × 0.781" (32 × 20mm)	0.068" (1.75mm)	0.35 oz. (10g)	**FB-965-I**	38.90	8 Pk./235.00
0.57 oz. (17mL)	1.625 × 1" (41 × 26mm)	0.078" (2mm)	0.599 oz. (17g)	**FB-965-J**	40.20	8 Pk./243.00
1.01 oz. (30mL)	2 × 1.25" (50 × 31mm)	0.078" (2mm)	0.91 oz. (26g)	**FB-965-K**	47.95	8 Pk./288.00
1.69 oz. (50mL)	2.38 × 1.44" (61 × 37mm)	0.086" (2.2mm)	1.23 oz. (35g)	**FB-965-L**	60.50	8 Pk./365.50
3.38 oz. (100mL)	3 × 1.81" (76 × 46mm)	0.9" (2.3mm)	1.9 oz. (55g)	**FB-965-M**	70.90	8 Pk./428.00
5.07 oz. (150mL)	3.312 × 2" (84 × 52mm)	0.9" (2.3mm)	3.17 oz. (90g)	**FB-965-N**	77.30	8 Pk./451.34
8.45 oz. (250mL)	4 × 2.375" (102 × 60mm)	0.9" (2.3mm)	4.37 oz. (123g)	**FB-965-P**	95.00	8 Pk./568.50

Fisherbrand® High-Form Porcelain Crucibles

Withstand temperatures up to 1150°C (2102°F)

- Glazed inside and out except for outside bottom surface and rim

ORDERING INFORMATION:
Covers available separately

FB-965-A

Capacity	Top Outer Dia. × Height	Wall Thickness	Unit Weight	Cat. No.	Pack of 6	Case of
0.04 oz. (1.3mL)	0.562 × 0.562" (15 × 15mm)	0.059" (1.5mm)	0.14 oz. (4g)	**FB-965-A**	32.85	8 Pk./198.20
0.338 oz. (10mL)	1.187 × 1" (31 × 26mm)	0.078" (2mm)	0.42 oz. (12g)	**FB-965-C**	35.00	8 Pk./211.50
0.50 oz. (15mL)	1.375 × 1.125" (35 × 29mm)	0.078" (2mm)	0.52 oz. (15g)	**FB-965-D**	37.15	8 Pk./224.50
1.01 oz. (30mL)	1.69 × 1.44" (43 × 37mm)	0.078" (2mm)	0.91 oz. (26g)	**FB-965-E**	57.00	8 Pk./332.83
1.35 oz. (40mL)	2 × 1.625" (50 × 40mm)	0.08" (2.1mm)	1.12 oz. (32g)	**FB-965-F**	61.10	8 Pk./354.50
1.69 oz. (50mL)	2.06 × 1.69" (53 × 43mm)	0.08" (2.1mm)	1.3 oz. (37g)	**FB-965-G**	69.10	8 Pk./407.00
3.38 oz. (100mL)	2.44 × 2.13" (65 × 54mm)	0.08" (2.1mm)	2.25 oz. (64g)	**FB-965-H**	83.00	8 Pk./501.00

Fisherbrand® Porcelain Crucible Covers

For use with Fisherbrand High- and Wide-Form Porcelain Crucibles

With perforated handle.

- Glazed inside and out except for the outside bottom surface
- Withstand temperatures up to 1150°C (2102°F)

FB-965-R

Inner Dia. × Side Height	Outer Dia.	Wall Thickness	Weight	Cat. No.	Pack of 6	Case of
1 × 0.19" (26 × 5mm)	1.18" (30mm)	0.06" (1.75mm)	0.211 oz. (6g)	**FB-965-R**	67.80	8 Pk./395.86
1.31 × 0.21" (34 × 5.5mm)	1.57" (40mm)	0.06" (1.75mm)	0.35 oz. (10g)	**FB-965-S**	67.80	8 Pk./395.86
1.5 × 0.23" (38 × 6mm)	1.73" (44mm)	0.07" (1.9mm)	0.49 oz. (14g)	**FB-965-T**	68.30	8 Pk./412.50
1.85 × 0.27" (47 × 7mm)	1.85" (47mm)	0.09" (2.3mm)	0.84 oz. (24g)	**FB-965-U**	69.60	8 Pk./418.50
2.12 × 0.27" (54 × 7mm)	2.12" (54mm)	0.098" (2.5mm)	1.16 oz. (33g)	**FB-965-V**	68.30	8 Pk./412.50
2.75 × 0.27" (66 × 7mm)	2.95" (75mm)	0.098" (2.5mm)	1.41 oz. (40g)	**FB-965-W**	77.30	8 Pk./451.34
3.31 × 0.31" (84 × 8mm)	3.03" (77mm)	0.1" (2.75mm)	1.97 oz. (56g)	**FB-965-X**	82.50	8 Pk./498.50
3.5 × 0.31" (90 × 8mm)	3.89" (99mm)	0.1" (2.75mm)	2.68 oz. (76g)	**FB-965-Y**	107.10	8 Pk./647.00
4.12 × 0.35" (105 × 9mm)	4.52" (115mm)	0.11" (3mm)	4.19 oz. (119g)	**FB-965-Z**	109.30	8 Pk./653.50

Fisherbrand® Externally and Internally Threaded Cryogenic Storage Vials

Choice of externally threaded vials with HDPE closures for aseptic technique, or internally threaded vials featuring polypropylene closures with silicone gasket for tight seal

- Sterile; not autoclavable
- Noncytotoxic, nonpyrogenic
- Large white writing area
- Graduations in 0.5mL increments
- Use with Fisherbrand Color Coders for easier sample identification

Externally threaded

- Conical-style bottom
- High density polyethylene
- Self-standing

Internally threaded

- With silicone gasket
- Polypropylene
- Conical- or round-style bottoms with a star-style foot

APPLICATIONS: Suitable for storage of biological materials in mechanical freezers or in the vapor phase of liquid nitrogen.

CERTIFICATIONS: CE marked.

NOTES:
Vials are for research use only; not for in vitro diagnosis or parenterals.

ALERTS:
Cryogenic vials are intended for placement only in the vapor phase of liquid nitrogen, and should not be used for storage in the liquid phase of liquid nitrogen. Immersion of the vials in the liquid phase could result in penetration of the liquefied gas into the vial, resulting in rapid vaporization of the liquid upon removal and possible violent explosion or leakage from the vial/closure perimeter.

To prevent cryogenic vials from exploding, never overfill liquid nitrogen storage units. Always examine vials before use to ensure no visible defects around the closure rims. Always use full faceshields, heavy safety gloves and laboratory protective apparel when removing vials from cryogenic storage. Always permit vials to warm slowly in a biological safety cabinet. Never reuse cryogenic vials.

10-500 Series and 12-567 Series

Capacity	Bottom Style	Foot Style	O.D. × H	Cat. No.	Pack of	Case of
Externally Threaded Vials						
1.2mL	Conical	----	13.5 × 38mm	**10-500-25**	100/58.00	10 Pk./492.50
2.0mL	Conical	----	13.5 × 48mm	**10-500-26**	100/58.00	10 Pk./492.50
5.0mL	Conical	----	13.5 × 92mm	**10-500-27**	50/40.55	20 Pk./681.50
Internally Threaded Vials						
1.2mL	Conical	Star Foot	12.5 × 42mm	**12-567-500**	100/60.60	10 Pk./481.50
2.0mL	Round	Star Foot	12.5 × 49mm	**12-567-501**	100/61.60	10 Pk./495.00
5.0mL	Round	Star Foot	12.5 × 92mm	**12-567-502**	100/77.40	10 Pk./649.50

Fisherbrand® Color Coders for Externally and Internally Threaded Cryogenic Storage Vials

For sample identification

Fit into the caps of Fisherbrand Externally Threaded Cryogenic Storage Vials (10-500-25, -26 and -27) or Internally Threaded Cryogenic Storage Vials (12-567-500, -501, -502).

For color-coded sample identification.

- Polystyrene
- Nonsterile

10-500 Series

Color	Cat. No.	Case of 500
For Externally Threaded Vials		
White	**10-500-30**	41.35
Yellow	**10-500-31**	41.35
Green	**10-500-32**	41.35
Blue	**10-500-33**	41.35
Red	**10-500-34**	41.35
For Internally Threaded Vials		
White	**12-567-503**	22.00
Yellow	**12-567-504**	22.00
Green	**12-567-505**	22.00
Blue	**12-567-506**	22.00
Red	**12-567-507**	22.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Nalgene™ General Long Term Storage Cryogenic Tubes

Two-turn deep-skirted screw closure system minimizes contamination

- Large writing areas accommodate more written sample information and graduations for easy visual volume assessment
- Noncytotoxic raw materials for added sample security and tubes certified free of Dnase and RNase for genomic or applications
- External threading enhances aseptic technique
- Certified SAL of 10^{-6} for the highest sterility assurance available
- Suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen
- System 100 tubes offer a more dense storage option (10 × 10) to save precious storage space (Cat. Nos. 03-337-7X, -7Y)
- Self standing tubes for ease of use on the benchtop

03-337-7 Series

Capacity	Mfr. No.	Cat. No.	Case of
1.0mL	5000-1012	**03-337-7X**	500/328.50
1.2mL	5000-0012	**03-337-7C**	500/321.00
2.0mL	5000-0020	**03-337-7D**	500/324.61
1.5mL	5000-1020	**03-337-7Y**	500/324.37
5.0mL	5000-0050	**03-337-7H**	250/260.00
15.0mL	5005-0015	**03-337-7B**	75/128.00

CERTIFICATIONS:
CE marked for storage of diagnostic samples in the EU.

Thermo Scientific™ Storage Canes

Support a variety of sizes and styles

- For storage of Nalgene™ or Nunc™ cryostorage tubes
- Able to store tubes protected with Cryoflex tubing
- Available Color Coders attach to the end of the cane and can be written on for quick identification and inventory management

Nunc Storage Cane

Description	Design	Length	Mfr. No.	Cat. No.	Pack of	Case of
Nunc Storage Cane, aluminum	Standard	11.3125" (290cm)	378441	**12-565-181**	----	50/85.88
Nalgene CryoCane, aluminum	Stepped	11.3125" (290cm)	5015-0001	**15-350-20**	12/29.41	4 Pk./78.58
Nalgene CryoCane, aluminum	Standard	11.8125" (300cm)	5015-0002	**15-350-21**	12/29.41	4 Pk./78.58
Nalgene Storage Cane Coders, aluminum, white	----	----	DS5020-0000	**15-350-35**	----	100/43.81

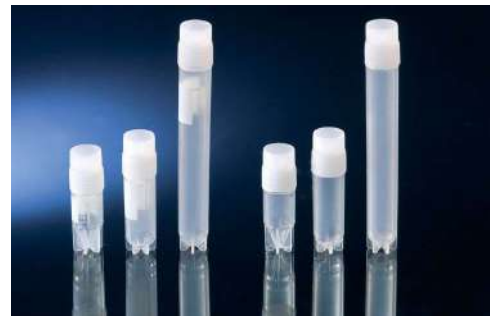
Thermo Scientific™ Nunc™ Cell Culture Cryogenic Tubes

External or Internally threaded polypropylene vials with deep-skirted polyethylene screw caps

Noncytotoxic, nonmutagenic raw materials and pyrogen-free IVD compatible tubes for added sample security

- External or internally threaded options available
- Certified SAL of 10^{-6} for the highest sterility assurance available
- Suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen
- Bulk, uncapped, nonsterile versions available for less demanding applications

COMPLIANCE:
CE Marked for storage of diagnostic samples in the EU. Compliant with IATA for shipping.



12-565 Series

Capacity	Style Thread / Bottom	Anti-Rotation Base / Self-Standing	Printed	Sterile	Vapor LN_2 (to -150°C)	Mfr. No.	Cat. No.	Pack of	Case of
1mL	External / Conical	Yes / Yes	Yes	Yes	Yes	375353	**12-565-164N**	500/425.50	4 Pk./1337.00
1mL	External / Round	No / No	Yes	Yes	No	375299	**12-565-165N**	500/425.00	4 Pk./1339.00
1mL	External / Conical	Yes / Yes	No	Yes	Yes	347597	**12-565-297**	500/425.00	4 Pk./1438.00
1mL	Internal / Conical	Yes / Yes	Yes	Yes	Yes	377224	**12-565-168N**	500/457.50	4 Pk./1391.00
1mL	Internal / Conical	Yes / Yes	Yes	Yes	Yes	366656	**12-565-169N**	500/457.50	4 Pk./1385.00
1.8mL	External / Round	Yes / Yes	Yes	Yes	Yes	375418	**12-565-163N**	450/401.50	4 Pk./1209.00
1.8mL	External / Round	No / No	Yes	Yes	No	340711	**12-565-166N**	500/425.50	4 Pk./1337.00
1.8mL	External / Round	Yes / Yes	No	Yes	Yes	347627	**12-565-298**	450/391.50	4 Pk./1283.00
1.8mL	Internal / Round	Yes / Yes	Yes	Yes	Yes	377267	**12-565-167N**	450/430.39	4 Pk./1254.54
1.8mL	Internal / Round	No / Yes	Yes	Yes	Yes	368632	**12-565-171N**	450/416.50	4 Pk./1263.00
1.8mL	Internal / Round	No / No	Yes	Yes	Yes	363401	**12-565-170N**	500/457.50	4 Pk./1384.00
1.8mL	Internal / Round	No / No	Yes	No	Yes	351934	**12-566-97**	----	2500/1284.00
3.6mL	Internal / Round	Yes / Yes	Yes	Yes	Yes	379189	**12-565-162N**	400/482.00	4 Pk./1468.00
3.6mL	Internal / Round	No / No	Yes	Yes	Yes	366524	**12-565-172N**	400/476.64	4 Pk./1462.33
3.6mL	Internal / Round	No / No	Yes	No	Yes	367997	**12-566-98**	----	1500/922.00
4.5mL	External / Round	Yes / Yes	Yes	Yes	Yes	337516	**12-565-291**	300/386.50	4 Pk./1356.00
4.5mL	External / Round	Yes / Yes	No	Yes	Yes	347643	**12-565-299**	300/428.00	4 Pk./1410.00
4.5mL	Internal / Round	Yes / Yes	Yes	Yes	Yes	379146	**12-565-161N**	300/431.00	4 Pk./1289.00
4.5mL	Internal / Round	No / No	Yes	Yes	Yes	363452	**12-565-173N**	300/477.00	4 Pk./1317.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nunc™ 2.0mL Internally-Threaded Universal Tubes

Racked or in bulk, noncoded or with 2D barcodes to serve every need

This versatile tube can serve low- and high-throughput applications at the same time, for biorepositories, clinics or other applications where tubes need to work both inside a large storage system and in smaller scale when used for traditional cryostorage in dewars. IATA certification ensures that shipped samples will not leak.

- Scalable
- Ideal for both lower-throughput benchtop use and high-throughput automation use
- Feature graduations and white patch for manual marking
- Internal threads limit contamination
- 2D barcode tracking and automation-friendly microplate footprint for higher throughput users
- Automation-pickable in Universal Latch Rack

Innovative Universal Cap Design

- Single-piece construction with molded-in gasket
- Cannot be over-tightened manually or with automated capping tools
- Thermoplastic elastomer gasket material is compatible with storage at room temperature down to vapor phase of liquid nitrogen

Secure Tracking

- Permanently-bonded, unique 2D barcode laser-etched onto the base of tube to securely identify and track samples
- 2D barcode readers instantly scans each tube's 2D barcode, registering the tube in any application or database or integrates via several export options
- Scan the tube to access sample information and identify the contents

Stringent Quality Control

- Every 2D barcoded storage tube is scanned to ensure readability
- Barcodes are checked against database of previously-assigned codes to prevent duplicates
- Every tube has a Sterility Assurance Level of 10^6 and is made with class VI medical grade resins

Specifications	
Tube Material	Virgin Class VI medical-grade polypropylene
Rack Material	Polycarbonate with polypropylene latches
Cap Material	Virgin Class VI medical-grade polypropylene with thermoplastic elastomer gasket material
Contaminant Free	All tubes and trays are supplied free from DNA, RNAse, DNAse, and endotoxins
Sterility	SAL of 10^6
Shippable	IATA certified
2D code Choices	Non proprietary, 12 × 12 data-matrix with ECC200 built-in error correction
Tube/Cap Temperature Range	-180° to 121°C
Torque Requirements†	Maximum 0.12 Nm, Minimum 0.075

† Note this is "on" torque required for placing caps on tubes for optimal sealing and sample integrity protection. All Thermo Scientific decapping equipment suited for use with applicable tubes ensures the proper torque is applied when equipment is within the limits of the preventative maintenance schedules; consult applicable manuals for details on tube compatibility and preventative maintenance recommendations

Description	Barcoding	Marking	Tubes per Rack or Pack/Case	Mfr. No.	Cat. No.	Each
Nunc 2.0mL Tube, Internal Thread Universal Tube in Universal Latch Rack	2D on tube bottom	White patch and Graduations	48/480	374510	**12-590-010**	478.00
Nunc 2.0mL Tube, Internal Thread Universal Tube in Universal Latch Rack	None	White patch and Graduations	48/480	374511	**12-590-011**	324.00
Nunc 2.0mL Tube, Internal Thread Universal Tube Bulk	2D on tube bottom	White patch and Graduations	48/480	374512	**12-590-012**	404.00
Nunc 2.0mL Tube, Internal Thread Universal Tube Bulk	None	White patch and Graduations	48/480	374513	**12-590-013**	225.00
Universal Latch Rack for Nunc 2.0mL Tube, Internal Thread	----	----	10 empty racks	331835	**12-590-014**	109.00

Thermo Scientific™ Nunc™ Low Profile 5.0mL Externally-Threaded Universal Tubes

Robust solution for solid or liquid sample storage

12-590 Series Tube

Flexible Tube Design

- Wide mouth provides easy access using forceps for adding approximately three 1mm sections of tissue, plant material or other solid sample for storage
- Overall tube height of less than 50mm and U-bottom shape allows convenient access with standard length pipette tips when used for liquid storage
- Available with or without a 2D barcode
- Includes printed graduations and white writable surface for manual sample identification
- Can be purchased in universal style latch rack or bulk to meet your sample handling requirements

Cap Design

- Screw top cap features single piece construction with integrated polypropylene gasket — cannot be over-tightened by hand
- Gasketed cap and tube are compatible with storage at room temperature through the vapor phase of liquid nitrogen

Secure Tracking

- Permanently-bonded unique 2D barcode is laser-etched on base of tube to securely identify and track samples
- Thermo Scientific 2D barcode reader instantly decodes each tubes barcode, transferring tube information into your application or database
- Tubes include white writable space for sample information in addition to, or instead of using 2D barcodes

Stringent Quality Control

- 2D-barcoded storage tubes are scanned after manufacturing to ensure readability
- Barcodes are checked against database of previously assigned codes to prevent duplicates
- Tubes are leak tested to ensure sample integrity and security

CERTIFICATIONS: IATA-certified to guarantee integrity and safety of specimens when using air transportation

Description	Marking	Quantity	Mfr. No.	Cat. No.	Each
Cryo tube with 2D barcode on bottom	White patch and Graduations	10 racks of 24 tubes	374320	**12-590-000**	436.27
Cryo tube without barcode	White patch and Graduations	10 racks of 24 tubes	374321	**12-590-001**	316.82
Cryo tube with 2D barcode on bottom	White patch and Graduations	1 bag of 240 tubes	374322	**12-590-002**	392.65
Cryo tube without barcode	White patch and Graduations	1 bag of 240 tubes	374323	**12-590-003**	285.70
Empty Universal Tube Rack with Lid	----	10 racks/ case	331840	**12-590-004**	117.47

Specifications	
Tube Material	Virgin Class VI medical-grade polypropylene
Rack Material	Polycarbonate with polypropylene latches
Cap Material	Virgin Class VI medical-grade HDPE with HDPE gasket material
Contaminant Free	All tubes and trays are supplied free from DNA, RNAse, DNAse, and endotoxins
Sterility	SAL of 10^6
Shippable	IATA certified
Autoclavable	Racked and unracked tubes are autoclavable with the caps loosened
2D code Choices	Nonproprietary, 12 × 12 data-matrix with ECC200 built-in error correction
Tube/Cap Temperature Range	-180° to 121°C; Autoclaving and boiling to vapor phase liquid nitrogen storage

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Wheaton™ CryoELITE™ Cryogenic Storage Vials

CryoELITE vial with Loctagon skirt provides stability in freestanding position and locks into the CryoELITE Benchmate Rack, making it easy to open and close the vial with one hand

The unique manufacturing design of the CryoELITE vial creates more cap to vial surface contact for an absolute seal. The freestanding vial accommodates an optional 2D Data Matrix Bar Code Bottom Insert (Cat. No. 03-410-320); which provides a unique identifier for permanent traceability. The bar code bottom insert; which can be purchased separately, easily press fits into the bottom of the vial. The vial bottom format provides unrestricted sample viewing and allows for automated scanning of bar code especially when used with the Wheaton KeepIT-100™ Freezer Box (Mfr. No. W651700 Series). This results in exceptional cap seal performance exceeding DOT standards by an average of 35%, making the CryoELITE vial ideal for the transport of clinical samples. Caps and vials are made from low binding cryogenic, virgin polypropylene.

- Made from cryogenic, radiation grade, virgin polypropylene
- Seven different cap colors: Blue, Pink, Green, Yellow, Red, White and Natural
- Externally and internally threaded vials
- Design results in pressure resistance performance well in excess of government standards

CryoElite Externally Threaded Vials

CryoElite Internally Threaded Vials

Capacity/Thread	Color	Writing Patch	Sterile	Dimensions Dia. × H (mm)	Mfr. No.	Cat. No.	Case of
1.2mL/External	White	Yes	Yes	12 × 37	W985862	**02-912-727**	500/239.50
2mL/External	Natural	Yes	No	12 × 49	W985852	**02-912-723**	1000/533.50
2mL/External	Natural	No	No	12 × 49	W985853	**02-912-724**	1000/436.50
2mL/External	Natural	Yes	Yes	12 × 49	W985872	**02-912-737**	500/271.06
2mL/External	White	Yes	Yes	12 × 49	W985863	**02-912-728**	500/275.25
2mL/External	Red	Yes	Yes	12 × 49	W985864	**02-912-729**	500/274.73
2mL/External	Pink	Yes	Yes	12 × 49	W985865	**02-912-730**	500/274.73
2mL/External	Yellow	Yes	Yes	12 × 49	W985866	**02-912-731**	500/274.73
2mL/External	Green	Yes	Yes	12 × 49	W985867	**02-912-732**	500/274.73
2mL/External	Blue	Yes	Yes	12 × 49	W985868	**02-912-733**	500/274.73
3mL/External	Natural	Yes	Yes	12 × 63	W985869	**02-912-734**	500/333.50
4mL/External	Natural	Yes	Yes	12 × 78	W985870	**02-912-735**	500/358.50
5mL/External	Natural	Yes	Yes	12 × 93	W985871	**02-912-736**	500/380.50
1.2mL/Internal	Natural	Yes	Yes	12 × 40	W985915	**02-912-710**	500/234.00
2mL/Internal	Natural	Yes	No	12 × 50	W985902	**02-912-703**	1000/521.14
2mL/Internal	Natural	No	No	12 × 50	W985903	**02-912-704**	1000/436.50
2mL/Internal	Natural	Yes	Yes	12 × 50	W985922	**02-912-717**	500/277.50
2mL/Internal	White	Yes	Yes	12 × 50	W985916	**02-912-711**	500/271.05
2mL/Internal	Red	Yes	Yes	12 × 50	W985917	**02-912-712**	500/277.50
2mL/Internal	Pink	Yes	Yes	12 × 50	W985918	**02-912-713**	500/277.50
2mL/Internal	Yellow	Yes	Yes	12 × 50	W985919	**02-912-714**	500/282.00
2mL/Internal	Green	Yes	Yes	12 × 50	W985920	**02-912-715**	500/282.00
2mL/Internal	Blue	Yes	Yes	12 × 50	W985921	**02-912-716**	500/277.50
3mL/Internal	Natural	Yes	Yes	12 × 63	W985923	**02-912-718**	500/326.00
4mL/Internal	Natural	Yes	Yes	12 × 77	W985924	**02-912-719**	500/356.00
5mL/Internal	Natural	Yes	Yes	12 × 91	W985925	**02-912-720**	500/372.50
2mL/External	Natural	Yes	Yes	12 × 49	W985872-100	**03-410-050**	100/65.00
2mL/External	White	Yes	Yes	12 × 49	W985863-100	**03-410-051**	100/65.00
2mL/External	Red	Yes	Yes	12 × 49	W985864-100	**03-410-052**	100/65.00
2mL/External	Pink	Yes	Yes	12 × 49	W985865-100	**03-410-053**	100/65.00
2mL/External	Yellow	Yes	Yes	12 × 49	W985866-100	**03-410-054**	100/62.60
2mL/External	Green	Yes	Yes	12 × 49	W985867-100	**03-410-055**	100/65.00
2mL/External	Blue	Yes	Yes	12 × 49	W985868-100	**03-410-056**	100/65.00

Wheaton™ CryoELITE™ Choice Pack

The new Wheaton CryoELITE Choice Pack was developed in response to demand from researchers looking for solutions for sorting and retrieving cryogenic samples that are fast, visual and cost effective

Featuring a mix of our CryoELITE Cryogenic Vials (external) and CryoFile Storage Boxes in five corresponding colors, the CryoELITE Choice Pack allows consumers to leverage the matched color coding of our vials and freezer boxes in one convenient unit.

Features:

- CryoELITE Cryogenic Vials: 2mL, freestanding, externally threaded, packaged into sterile bags of 50 vials. The Wheaton CryoELITE Choice Pack includes three bags of each in the following colors: yellow, pink, white, red and blue
- CryoFile Storage Boxes: coated cardboard, numbered on both the internal bottom of the box and the internal lid to better track and find your samples, 81 count. The Wheaton CryoELITE Choice Pack includes two boxes in each of the following colors: yellow, pink, white, red and blue

Description	Mfr. No.	Cat. No.	Each
CryoELITE Choice Pack	W985001	**02-912-740**	366.50

Corning™ Color-Coded Cap Inserts

For use with Corning cryogenic vials (except 03-374-6)

- Provide color-coding for easy sample identification
- Polypropylene

03-374-36G

Color	Mfr. No.	Cat. No.	Case of 500
Blue	2016	**07-202-621**	66.90
Green	2018	**07-202-623**	66.90
Red	2017	**07-202-622**	66.90
White	2015	**07-202-620**	66.90
Yellow	2019	**07-202-624**	66.90
Assorted	430499	**03-374-36G**	62.84

Corning™ Disposable Plug Seal Cryogenic Vial

Plug seal cap provides secure seal

- Translucent polypropylene
- Round-bottom
- Certified nonpyrogenic
- Sterilized by gamma radiation
- Caps do not accept color-coded cap inserts
- Designed for low-temperature storage of cells and biological fluids; can withstand temperatures from -196° to +121°C (-320.8° to +250°F)
- To prevent leakage, store vials in the vapor phase above liquefied nitrogen or other gases

03-374-6

ORDERING INFORMATION:

Supplied in bags of 50 vials, 500 per case.

ALERTS:

Cryogenic vials are intended for placement only in the vapor phase of liquid nitrogen, and should not be used for storage in the liquid phase of liquid nitrogen. Immersion of the vials in the liquid phase could result in penetration of the liquefied gas into the vial, resulting in rapid vaporization of the liquid upon removal and possible violent explosion or leakage from the vial/closure perimeter.

To prevent cryogenic vials from exploding, never overfill liquid nitrogen storage units. Always examine vials before use to ensure no visible defects around the closure rims. Always use full faceshields, heavy safety gloves and laboratory protective apparel when removing vials from cryogenic storage. Always permit vials to warm slowly in a biological safety cabinet. Never reuse cryogenic vials.

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of 500
2.0mL	0.48 × 1.69" (12.2 × 43mm)	430289	**03-374-6**	327.85

Corning™ Externally Threaded and Internally Threaded Cryogenic Vials

Silicone washer provides secure seal

INCLUDES:

50-position polyfoam rack with each case for easy carrying

ALERTS:

Cryogenic vials are intended for placement only in the vapor phase of liquid nitrogen, and should not be used for storage in the liquid phase of liquid nitrogen. Immersion of the vials in the liquid phase could result in penetration of the liquefied gas into the vial, resulting in rapid vaporization of the liquid upon removal and possible violent explosion or leakage from the vial/closure perimeter.

To prevent cryogenic vials from exploding, never overfill liquid nitrogen storage units. Always examine vials before use to ensure no visible defects around the closure rims. Always use full faceshields, heavy safety gloves and laboratory protective apparel when removing vials from cryogenic storage. Always permit vials to warm slowly in a biological safety cabinet. Never reuse cryogenic vials.

09-761 Series

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of 500
Round Bottom, Externally Threaded				
2.0mL	0.5 × 1.87" (12.7 × 47.6mm)	430661	**09-761-72**	307.50
Round Bottom, Self-standing, Externally Threaded				
2.0mL	0.5 × 1.91" (12.7 × 48.7mm)	430659	**09-761-71**	298.93
4.0mL	0.5 × 3.01" (12.7 × 76.5mm)	430662	**09-761-73**	417.70
5.0mL	0.5 × 3.62" (12.7 × 92.1mm)	430663	**09-761-74**	487.73
Conical Bottom, Self-standing, Externally Threaded				
1.2mL	0.5 × 1.63" (12.7 × 41.5mm)	430658	**09-761-70**	298.93

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Linear Barcoded Tubes

Bar codes expand the possiblities for effective data collection and management

03-390 Series

- Black barcode directly printed onto white background for high contrast and readability even in high-frost conditions
- Human readable code below the barcode for easy visual identification without a barcode reader
- Barcodes resistant to IPA, DMSO, 5% Bleach, 10% Acetic acid and 10% NaOH
- Noncytotoxic raw materials for added sample security and tubes certified free of Dnase and RNase for genomic applications
- External or internally threading options available
- Certified SAL of 10^{-6} for the highest sterility assurance available
- Suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen

COMPLIANCE: Nunc™ tubes are compliant with IATA for shipping.

CERTIFICATIONS: CE marked for storage of diagnostic samples in the EU.

Description	O.D. × H	Sterile	Mfr. No.	Cat. No.	Case of
Nalgene Linear Bar Coded Tube, 1.2mL	13.5 × 38.1mm	Yes	5001-0012	**03-390-110**	500/404.00
Nalgene Linear Bar Coded Tube, 2.0mL	12 × 48mm	Yes	5001-0020	**03-390-111**	500/403.50
Nalgene Linear Bar Coded Tube, 5.0mL	13.5 × 48.3mm	Yes	5001-0050	**03-390-112**	250/310.50
Nalgene Linear Bar Coded Tube, 1.5mL	13.5 × 92mm	Yes	5001-1020	**03-390-113**	500/425.50
Nunc Bar Coded CryoTube Vial, 1.8mL	12.5 × 48mm	No	373530	**12-566-002**	1800/1854.00
Nunc Bar Coded CryoTube Vial, 1.8mL	12.5 × 48mm	Yes	373420	**12-565-950**	1800/1680.00

Corning™ Internally Threaded Cryogenic Vials

Silicone washer provides secure seal

03-374 Series

INCLUDES:
50-position polyfoam rack with each case for easy carrying

ALERTS:
Cryogenic vials are intended for placement only in the vapor phase of liquid nitrogen, and should not be used for storage in the liquid phase of liquid nitrogen. Immersion of the vials in the liquid phase could result in penetration of the liquefied gas into the vial, resulting in rapid vaporization of the liquid upon removal and possible violent explosion or leakage from the vial/closure perimeter.

To prevent cryogenic vials from exploding, never overfill liquid nitrogen storage units. Always examine vials before use to ensure no visible defects around the closure rims. Always use full faceshields, heavy safety gloves and laboratory protective apparel when removing vials from cryogenic storage. Always permit vials to warm slowly in a biological safety cabinet. Never reuse cryogenic vials.

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of
Round bottom				
2.0mL	0.5 × 1.85" (12.7 × 47mm)	430489	**03-374-22**	500/298.42
4.0mL	0.5 × 2.75" (12.7 × 70mm)	430490	**03-374-23**	500/417.19
5.0mL	0.5 × 3.55" (12.7 × 90.2mm)	430492	**03-374-25**	500/502.00
Round bottom, self-standing				
2.0mL	0.5 × 1.92" (12.7 × 49mm)	430488	**03-374-21**	500/318.73
2.0mL	0.503 × 1.56" (12.8 × 39.8mm)	431386	**03-374-059**	250/161.25
4.0mL	0.5 × 2.8" (12.7 × 71.2mm)	430491	**03-374-24**	500/417.19
5.0mL	0.5 × 3.62" (12.7 × 92.1mm)	430656	**09-761-69**	500/487.22
Conical bottom, self-standing				
1.2mL	0.5 × 1.63" (12.7 × 41.6mm)	430487	**03-374-20**	500/298.42

Labeling Supplies

Fisherbrand® Cryo Dots and Strips for Cryogenic Storage

Unique adhesive withstands extreme temperature

Fisherbrand Cryo Dots and Strips are ideal for all cryostorage, liquid nitrogen, refrigeration and ultra-low temperature freezer applications. Suitable for use on microcentrifuge tubes, cryovials, racks, boxes and microtiter plates. Adhesive withstands temperatures from -196° to +121°C (-321° to +250°F).

15-910-A

- No need to self-laminate
- Thinner labels allow tubes to fit most storage systems
- Available in a full range of colors and sizes
- Guaranteed not to fall off under normal use (provided user instructions are followed)
- Also offered in laser printer-compatible sheets (see Cat. Nos. 15-930 and 15-940 Series)

APPLICATIONS:
Cryostorage, liquid nitrogen, refrigeration and ultra-low temperature freezer applications

Color	For Use with (Tubes or Bottles)	Size of Strip/Dot	Packaged	Cat. No.	Each
Strips					
White	1.5 to 2mL tubes	0.5 × 1.25" (33 × 13mm)	1000/Roll	**15-910-A**	45.05
Blue	1.5 to 2mL tubes	0.5 × 1.25" (33 × 13mm)	1000/Roll	**15-910-B**	45.05
Red	1.5 to 2mL tubes	0.5 × 1.25" (33 × 13mm)	1000/Roll	**15-910-C**	45.05
Green	1.5 to 2mL tubes	0.5 × 1.25" (33 × 13mm)	1000/Roll	**15-910-D**	45.05
Yellow	1.5 to 2mL tubes	0.5 × 1.25" (33 × 13mm)	1000/Roll	**15-910-E**	45.05
Purple	1.5 to 2mL tubes	0.5 × 1.25" (33 × 13mm)	1000/Roll	**15-910-F**	45.05
White	0.2mL PCR tubes	0.25 × 0.75" (20 × 6mm)	1000/Roll	**15-910-G**	45.05
Dots					
White	0.5 to 1.5mL tubes	0.375" dia. (9.5mm)	1000/Roll	**15-920-A**	43.20
White	0.5 to 1.5mL tubes	0.375" dia. (9.5mm)	5000/Roll	**15-920-B**	150.90
Assorted	0.5 to 1.5mL tubes	0.375" dia. (9.5mm)	5000/Roll	**15-920-C**	156.60
White	1.5 and 2mL tubes	0.5" dia. (13mm)	1000/Roll	**15-920-D**	43.45
White	15 and 50mL tubes	0.75" dia. (19mm)	1000/Roll	**15-920-E**	36.05
White	15 and 50mL tubes	0.75" dia. (19mm)	5000/Roll	**15-920-F**	162.60

Storage Boxes and Freezer Racks

Fisherbrand® Cryo/Freezer Boxes

Choice of boxes and dividers to accommodate tubes from 0.5 to 50mL

Sturdy yet economical, Fisherbrand Cryo/Freezer Boxes and Dividers are made of sturdy white cardboard, with a special moisture-repellent coating to protect them from the effects of liquid nitrogen or condensation from refrigerated equipment. Small holes on the bottom allow for safe drainage of liquid nitrogen or water.

Cryo/Freezer Box with Vials

Simple design for versatile use

- Unbreakable white fiberboard to protect samples
- Surface is easy to write on for identification
- Sized to fit all standard stainless-steel and polycarbonate storage systems
- Tight lid-to-box fit means accidental separation is next to impossible
- Catalog numbers are printed on box lids for easy reorder
- Can be used in mechanical freezers and liquid nitrogen tanks at temperatures to -196°C

ORDERING INFORMATION:
Sold individually, with or without dividers as noted in table.

L × W × H	No. of Cells	Cat. No.	Each	Case of 100
With Dividers				
3 × 3 × 2" (7.6 × 7.6 × 5.1cm)	25	**03-395-463**	11.17	----
5 × 5 × 2" (12.7 × 12.7 × 5.1cm)	81	**03-395-464**	10.96	830.28
5 × 5 × 2" (12.7 × 12.7 × 5.1cm)	100	**03-395-465**	10.15	769.83
Without Dividers				
3 × 3 × 2" (7.6 × 7.6 × 5.1cm)	----	**03-395-451**	7.26	----
5.75 × 5.75 × 4" (12.8 × 12.7 × 20.3cm)	----	**03-395-454**	9.68	----
5 × 5 × 2" (12.7 × 12.7 × 5.1cm)	----	**03-395-455**	6.72	517.00
5 × 5 × 3" (12.7 × 12.7 × 7.6cm)	----	**03-395-456**	7.91	----

ON THE WEB...

Looking for pens? Fisher Scientific offers a wide selection of markers and pens in various colors

Visit www.fishersci.com and search for Pens

LOOKING FOR MORE...?

For a complete line of refrigerators, freezers and accessories, visit the Refrigeration section.

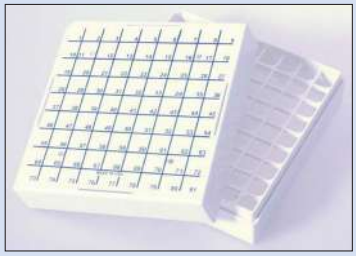
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Cryogenic Vial Storage Boxes

Suitable for ultra-low temperature storage of both internally and externally threaded cryogenic vials

- 81-place white polycarbonate storage boxes
- Use in mechanical freezers and liquid nitrogen dewars
- Cover is printed with a 9 × 9 numbered grid for inventory purposes
- Stackable
- Autoclavable



10-500-28

Accepts	L × W × H	Cat. No.	Pack of 4	Case of 6 Packs
1.2 to 2.0mL Vials	5.25 × 5.25 × 2" (13.3 × 13.3 × 5.1cm)	**10-500-28**	60.00	303.00
Up to 5.0mL Vials	5.25 × 5.25 × 3.75" (13.3 × 13.3 × 9.5cm)	**10-500-29**	82.80	418.00

Fisherbrand® Dividers for Cryo/Freezer Boxes

For Fisherbrand Cryo/Freezer Boxes

Made with unbreakable white fiberboard to safeguard samples. A protective coating prevents water or liquid nitrogen from saturating box for increased longevity. Can be used in mechanical freezers and liquid nitrogen tanks at temperatures to -196°C (-320.8°F).

- Nine divider choices hold from 16 to 144 tubes
- Accommodate tubes with diameters from 9.8 to 33.5mm

ORDERING INFORMATION:
Sold individually and in pack of 12. For use with Fisherbrand Cryo/Freezer Boxes Cat. Nos. 03-395-451, -454 to -456, and -463 to -465.

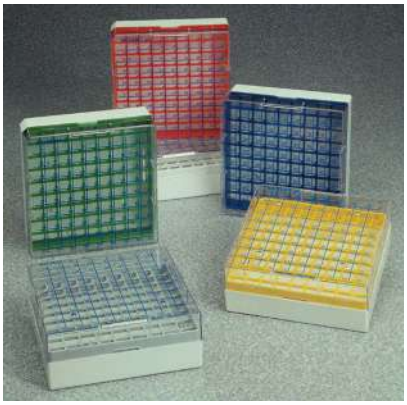
L × W × H	No. of Cells	Cell Opening	Cat. No.	Each	Pack of 12
Cell Dividers for 50mL Tubes					
5.6 × 5.6 × 2.75" (22 × 14.22 × 6.98cm)	16	33.5mm	**03-395-461**	9.14	90.93
Cell Dividers for 15mL Tubes					
5.6 × 5.6 × 2.75" (22 × 14.22 × 6.98cm)	36	22.0mm	**03-395-462**	9.14	90.93
Cell Dividers for Standard Tubes					
2.625 × 2.625 × 1.25" (6.66 × 6.66 × 3.17cm)	25	11.5mm	**03-395-450**	9.39	93.52
4.87 × 4.87 × 1.31" (12.36 × 12.36 × 3.32cm)	25	24.5mm	**03-395-452**	9.22	91.76
4.87 × 4.87 × 1.31" (12.36 × 12.36 × 3.32cm)	49	16.7mm	**03-395-460**	9.04	90.00
4.87 × 4.87 × 1.31" (12.36 × 12.36 × 3.32cm)	64	14.6mm	**03-395-459**	9.04	90.00
4.87 × 4.87 × 1.31" (12.36 × 12.36 × 3.32cm)	81	12.7mm	**03-395-458**	9.24	92.07
4.87 × 4.87 × 1.31" (12.36 × 12.36 × 3.32cm)	100	11.5mm	**03-395-457**	9.14	90.93
4.87 × 4.87 × 1.31" (12.36 × 12.36 × 3.32cm)	144	9.5mm	**03-395-453**	9.74	96.90

Thermo Scientific™ Cryoboxes

Available in a variety of colors for easy identification

Durable, all-plastic cryoboxes for short- or long-term storage

- Keyed lids on plastic cryoboxes prevent misalignment
- Plastic boxes autoclavable for decontamination and usable at temperature range from -196°C to +121°C
- Printed grid on plastic lids for easy inventory management
- Economical chipboard cryoboxes for short term storage
- Chipboard boxes include dividers and vents in base for good drainage and air circulation
- Available with dividers from 25 to 169 tube storage



Thermo Scientific Cryoboxes

Color	No. of Vials Held	Dimensions (L × W × H)	Mfr. No.	Cat. No.	Case of
Polycarbonate					
Red	81	5.25 × 5.25 × 2.13" (133 × 133 × 52mm)	867013-0240	**14-175-60**	24/283.41
Yellow	81	5.1 × 5.1 × 2" (133 × 133 × 52mm)	867013-0241	**14-175-61**	24/283.41
Green	81	5.1 × 5.1 × 2" (133 × 133 × 52mm)	867013-0242	**14-175-62**	24/283.41
Blue	81	5.1 × 5.1 × 2" (133 × 133 × 52mm)	867013-0243	**14-175-63**	24/283.41
Gray	81	5.1 × 5.1 × 2" (133 × 133 × 52mm)	867013-0244	**14-175-64**	24/283.41
Assorted	81	5.1 × 5.1 × 2" (133 × 133 × 52mm)	867013-0245	**14-175-65**	24/283.41
White	25	3 × 3 × 2" (76 × 76 × 52mm)	5025-0505	**15-350-107**	8/89.97
White	81	5.25 × 5.25 × 3.75" (133 × 133 × 52mm)	5026-0909	**15-350-107B**	4/69.81
White	100	5.25 × 5.25 × 2.06" (133 × 133 × 52mm)	5026-1010	**03-337-7AA**	10/125.56
White	81	5.25 × 5.25 × 3.75" (133 × 133 × 95mm)	5027-0909	**03-337-7J**	4/92.71
White	100	5.25 × 5.25 × 2.13" (133 × 133 × 52mm)	374187	**12-565-174**	4/77.70
White	100	5.25 × 5.25 × 3.063" (132 × 132 × 52mm)	341483	**12-565-234**	4/86.81
White	64	5.25 × 5.25 × 2.13" (132 × 132 × 52mm)	330821	**12-565-227**	4/70.66
Chipboard					
White	25	2.88 × 2.88 × 2" (75 × 75 × 51mm)	378247	**12-565-183**	24/153.49
White	81	5.25 × 5.25 × 2" (132 × 132 × 51mm)	378220	**12-565-182**	6/44.60
White	81	5.32 × 5.32 × 2.17" (132 × 132 × 51mm)	369639	**12-567-01**	48/503.49
White	81	5.32 × 5.32 × 2.87" (132 × 132 × 75mm)	369647	**12-567-02**	30/305.00
White	100	5.71 × 5.71 × 2.09" (145 × 145 × 53mm)	340053	**12-567-03**	42/668.72
White	100	5.71 × 5.71 × 3.07" (145 × 145 × 78mm)	340061	**12-567-04**	30/485.17

Thermo Scientific™ Dense Storage Options

Hold 169 vials in a 13 × 13 grid

- Available in economical cardboard or long lasting plastic cryobox options
- Fit 169 1mL cryobank tubes for the most dense storage available

12-570-218
(racked vials and screwdriver sold separately)

Description	Mfr. No.	Cat No.	Price
Cryobox, PC, white with clear lid	5050-0169	**15-350-501**	51.50
Nunc™ Cryobox with 13 × 13 Divider, 132 × 132 × 52mm, White Cardboard with Lid	369640	**12-570-218**	601.50
Nalgene™ Cryobox with No Divider, 133 × 133 ×52mm, White PC with Clear Lid	5050-0001	**15-350-55**	71.79
Nunc 13 × 13 Divider to Fit 133 × 133 × 52mm Cryobox	374001	**12-565-004**	109.00
Nunc Picker Pen for Cryobank Tubes	369678	**12-570-219**	Cs. of 24 53.54
1.0mL Nunc Cryobank Tubes, Blank, with Caps, Sterile, Loose Packed	374115	**12-566-298**	512.55

Thermo Scientific™ Nunc™ Universal Latch Rack for Cryogenic Tubes

Stores tubes for automated picking/placing, liquid handling and other high throughput applications

- Nonsterile

ORDERING INFORMATION:
Case of 10.

12-565-701

For Use with	Mfr. No.	Cat. No.	Case of 10
2mL Cryobank	331825	**12-565-701**	114.57
5mL Cryobank	331826	**12-565-702**	114.57
1-2mL Standard Cryotubes	331827	**12-565-703**	113.57
3.6-5mL Standard Cryotubes	331828	**12-565-704**	113.57

Thermo Scientific™ Mr. Frosty Freezing Containers

Low-cost freezing unit provides repeatable -1°C/min. cooling rate for successful cryopreservation and recovery

Polycarbonate containers with blue high-density polyethylene closure. Gray high-density polyethylene vial holder, foam insert.

15-350-50 Series

- Hold 12 to 18 tubes and has profile height of 86 or 151mm (3.438 to 5.313"), which saves precious freezer space during the cooling process
- Screw top lid secures samples inside in the event of accidental container tipping
- Eliminate unreliable, improvised foam container devices
- Easy to use — requires only 100% isopropyl alcohol and a mechanical freezer
- No contact with the alcohol: no wicking, label removal or compromise of tube hand printing

ORDERING INFORMATION:
Containers have 4.75" diameter (120mm) closure.

REQUIRES:
Isopropyl alcohol and a mechanical freezer

Tube Compatibility	Mfr. No.	Cat. No.	Each
1.0 to 2.0mL	5100-0001	**15-350-50**	95.00
3.6mL	5100-0036	**15-350-50A**	91.70
4.5 to 5.0mL	5100-0050	**15-350-50B**	91.70

Biocision™ CoolCell™ 2mL Cryo Vial Freezers

Alcohol-free CoolCell delivers unparalleled cell freezing reproducibility

Alcohol-free -1°C/minute cell freezing containers for 12 × 2mL cryo vials. Constructed of lightweight, highly durable cross-linked high-density polyethylene foam.

13-900-743

- Use a novel alloy and controlled micro-convection technology to achieve uniform and highly reproducible -1°C/minute freezing profiles to all vials
- Accommodate 12 1 or 2mL cryo vials for small batch cell freezing
- No alcohol means no on-going expense, maintenance or performance variability
- Highest post-thaw viability: cell lines, stem cells, PBMC, primary cells, yeast
- No pre-cooling: use off the shelf, not cold to touch when frozen
- No stuck lids: easy to open and re-use after five minute thaw period
- Three colors: purple, orange, green

Color	Mfr. No.	Cat. No.	Each
Purple	BCS-136	**13-900-635**	133.90
Green	BCS-136G	**13-900-677**	127.72
Orange	BCS-136O	**13-900-678**	127.72
Pink	BCS-136PK	**13-900-743**	124.42

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Biocision™ CoolCell™ 5mL Cell Freezing Container

Alcohol-free -1°C/minute cell freezing container for 5mL cryo vials

Provides consistent, -1°C/min. freeze rate for 5mL cryo vials in a -80°C freezer without the use of alcohol or other fluids.

13-900-682

- Proprietary design ensures precise, uniform and highly reproducible heat removal from all vials in the container during the freezing period
- Freeze up to twelve 5mL cryovials in a lightweight, unbreakable and highly durable container
- Vials are easily extracted from the unit when the top is removed and vial caps are exposed
- Container is not cold to the touch when frozen and can be used for another freeze run after only five minutes

Description	Mfr. No.	Cat. No.	Each
CoolCell 5mL	BCS-171	**13-900-682**	212.18

Biocision™ CoolCell™ FTS30 Cell Freezing Containers

High capacity, -1°C/minute cell freezing container with removable vial module

13-900-679

- Controlled-rate cell freezing system for use in a -80°C freezer
- Uniformly freezes 30 screwcap 2mL vials in the most compact, space-efficient format available
- Constructed of highly durable cross-linked high-density polyethylene foam
- Novel alloy and micro-convection technology ensures even heat removal from each cryovial during the cooling period and the highest level of sample reproducibility
- Inner removable FTS Vial Module allows one-step freezing, transport and storage of all 30 cryovials
- Once frozen, the vial module containing frozen samples may be removed from the CoolCell and placed onto dry ice for further processing or directly into standard 5.5 × 5.5 × 2" cryo storage boxes
- Provide standardized cryopreservation for all cells including cell lines, stem cells, blood and other primary cells and yeast
- No alcohol: no on-going expense, maintenance or performance variability
- Lightweight, easy to open, unbreakable and not cold to touch even when frozen to cryogenic temperature
- Four colors: purple, green, orange and pink

Color	Mfr. No.	Cat. No.	Each
Purple	BCS-170	**13-900-679**	465.68
Green	BCS-170G	**13-900-680**	465.68
Orange	BCS-170O	**13-900-681**	465.68
Pink	BCS-170PK	**13-900-742**	465.68

Biocision™ CoolBox™ 96F System

Ice-free cooling, snap-freezing container for 96-well flat-bottom plates

13-900-633

- Cool, (snap) freeze or transport SBS-format 96-well flat-bottom plates safely without contamination or temperature variation
- Versatile alternative to ice bucket or plastic gel-filled coolers
- Eliminates "edge effect" as all wells are continuously within 0.1°C uniformity
- Standardizes temperature-sensitive procedures such as cooling and (snap) freezing
- Eliminates variability well-to-well, user-to-user, lab-to-lab, site-to-site
- Instantly organizes, protects and standardizes tube and plate sample collection and handling
- Constructed of highly durable cross-linked dense polyethylene foam
- Use with ice-free cartridges, wet ice, dry ice, liquid nitrogen or standard gel packs
- Clean with aqueous detergents, alcohol, bleach or acid/base viricides
- Resistant to to fluid absorption, surface abrasion and rust
- Color: purple

Two temperature options:

- Blue cooling cartridge provides up to 10 hours of 0.5° to 4° ice-free cooling
- 200cc dry ice provides up to 6 hours of -78° (snap)freezing

INCLUDES:
CoolBox, CoolSink 96F, blue 2°C cooling cartridge

Description	Mfr. No.	Cat. No.	Each
CoolBox 96F System	BCS-147	**13-900-633**	514.19

Biocision™ CoolRack™ 96-well Profile Fit PCR Cooler

Thermo-conductive holder for 200µL tubes, strips and PCR plates

Maintains temperature through direct contact with ice, dry ice, water or liquid nitrogen. Instantly organizes, protects and standardizes temperature and temperature shift profiles of all samples.

13-900-611

- Serves as uniform temperature PCR cooler
- Use on ice or in ice-free CoolBox Microplate System
- Precision-engineered for optimal tube contact and thermal transfer
- Patented aluminum alloy construction rapidly adapts to any temperature source
- Color: gray

Description	Mfr. No.	Cat. No.	Each
CoolRack PCR96, 96-well	BCS-120	**13-900-611**	321.36

Wheaton™ Biobanking System

Integrated kit offers the Wheaton PluraScan™ and SingleScan™ with packaged CryoELITE™ Vials, KeepIT™ Boxes and 2D Data Matrix Bar Code Inserts

The Wheaton 2D Integrated BioBanking System is a comprehensive offering of high-quality products customized to enhance the storage, tracking and management of your vital samples. Whether you require the storage of irreplaceable samples in glass cryogenic ampules or plastic cryogenic vials, bar coding options for sample traceability or color coded storage to track specific projects or samples, Wheaton provides you with the tools that make your job easier and more efficient.

Ampules

- Cryogenic Wheaton Cryule™ Ampules are ideal for long-term storage integrity due to their tamper evident seal
- Ampules are not manufactured pre-bar coded, enabling customization of bar codes according to customer specifications
- For use with scanners, a 2D bar code is applied to the ampule
- Ceramic bar code is durable when used in extreme temperatures

CryoELITE Cryogenic Vials

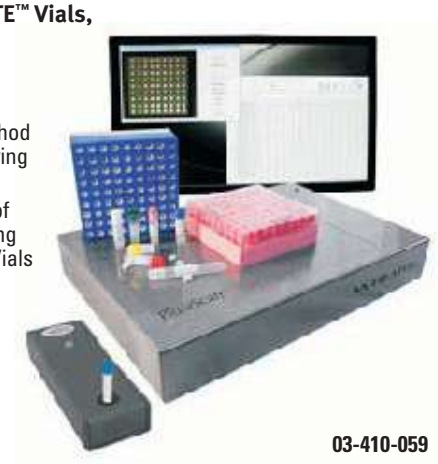
- Unrivaled cap seals exceed DOT and IATA regulations
- Optional 2D Data Matrix Bar Code Inserts provide a unique identifier for traceability
- Bottom format allows unrestricted view of 2D bar code, convenient for automated scanning
- Made from low binding, cryogenic grade virgin polypropylene, with lot certified RNase/DNase and Endotoxin-free certification
- Colored caps allow for color coding projects along with Wheaton color coded KeepIT Boxes

2D Bar Codes

- When purchasing freestanding Wheaton CryoELITE Vials, you can also get optional 2D Data Matrix Bar Code Inserts that allow for immediate bar coding of samples
- Insert can also be applied to vial at a future date, which eliminates jeopardizing the integrity of sample by transferring it to another vial
- 2D Data Matrix Bar Code Insert press fits and locks into place in bottom of vial
- 2D bar codes are machine readable symbols of rows of encrypted data arranged in a rectangular or square pattern that store large amounts of data
- Number sequencing on bar codes is guaranteed not to duplicate

KeepIT Boxes

- Provide an ideal method for batching and storing of samples
- Openings in bottom of box facilitate scanning of either CryoELITE Vials with 2D Data Matrix Bar Code Inserts or ceramic 2D bar code labeled Cryule Ampules



03-410-059

SingleScan Bar Code Reader

- Able to read 1D and 2D bar codes
- Linear bar codes are black and white vertical bars located on side of ampule that contain various amounts of data ranging from simple number chains to large amounts of numeric and alphanumeric data sets
- 2D bar codes are machine readable symbols of rows of encrypted data arranged in a rectangular or square pattern that store large amounts of data

PluraScan Bar Code Reader

- Able to read 2D bar coded vials or ampules stored in compatible, bottom readable Wheaton KeepIT Boxes
- Once bar code is attached to ampule or vial, bar codes can be scanned and read using Wheaton SingleScan or PluraScan Bar Code Reader
- Bar code identification can be simply stored in a Microsoft™ Excel™ file or any other data collection system

INCLUDES:

- Sample Storage, Traceability and Management
- Ampules
- CryoELITE Vials
- 2D Bar Code Inserts
- KeepIT Boxes
- Scanners

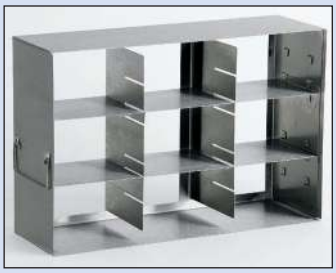
Description	Mfr. No.	Cat. No.	Each
Internal Vials	W986020	**03-410-058**	9870.00
External Vials	W986030	**03-410-059**	9870.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand®

Freezer Storage Racks

Organize and optimize the freezers in the lab



03-395-467

Make it easy to track samples by improving organization in your freezers. These racks enable you to store more samples, eliminate dead space and minimize frost buildup. Fit all standard types and sizes of upright and chest freezers, regardless of manufacturer.

- Store a variety of sample containers, including boxes, plates and tubes
- High-quality, corrosion resistant stainless steel
- For use in all standard upright and chest freezers

L × H × D	No. of Shelves	Cat. No.	Each
Upright Freezer Racks for 2" Boxes			
16.5 × 6.7 × 5.4" (41.9 × 17 × 13.7cm)	9 (3 × 3 array)	**03-395-479**	87.88
16.5 × 9.4 × 5.4" (41.9 × 23.9 × 13.7cm)	12 (3 × 4 array)	**03-395-493**	84.00
16.5 × 10.9 × 5.5" (41.9 × 27.7 × 13.9cm)	15 (3 × 5 array)	**03-395-480**	105.02
22.1 × 6.7 × 5.5" (56.1 × 17 × 13.7cm)	12 (4 × 3 array)	**03-395-481**	91.52
22.1 × 9.4 × 5.4" (56.1 × 23.9 × 13.7cm)	16 (4 × 4 array)	**03-395-494**	118.35
21.1 × 10.9 × 5.5" (56.1 × 27.7 × 13.9cm)	20 (4 × 5 array)	**03-395-482**	144.56
21.1 × 12.7 × 5.5" (56.1 × 32.3 × 13.5cm)	24 (4 × 6 array)	**03-395-483**	266.22
26.8 × 9.4 × 5.3" (68.1 × 23.9 × 13.5cm)	20 (5 × 4 array)	**03-395-466**	202.50
Upright Freezer Drawer Rack for 2" Boxes			
16.6 × 7.1 × 5.5" (42.2 × 18 × 14cm)	9 (3 × 3 array)	**03-395-467**	139.24
16.6 × 9.4 × 5.5" (42.2 × 23.9 × 14cm)	12 (3 × 4 array)	**03-395-484**	156.22
22 × 9.4 × 5.5" (55.9 × 23.9 × 14cm)	16 (4 × 4 array)	**03-395-485**	214.31
22 × 7.1 × 5.5" (55.9 × 18 × 14cm)	12 (4 × 3 array)	**03-395-468**	187.43
12 × 11.9 × 5.5" (30.48 × 30.2 × 14cm)	20 (4 × 5 array)	**03-395-469**	256.95
Chest Freezer Racks for 2" Boxes			
19.8 × 5.6 × 5.5" (50.3 × 14.2 × 14cm)	9	**03-395-476**	89.69
22.7 × 5.6 × 5.5" (57.6 × 14.2 × 14cm)	10	**03-395-470**	90.93
24.2 × 5.6 × 5.5" (61.5 × 14.2 × 14cm)	11	**03-395-486**	115.33
26.4 × 5.6 × 5.5" (67 × 14.2 × 14cm)	12	**03-395-487**	106.45
28.6 × 5.6 × 5.5" (72.6 × 14.2 × 14cm)	13	**03-395-471**	139.70
Upright Freezer Racks for 3" Boxes			
22.1 × 9.4 × 5.4" (56.1 × 23.9 × 13.7cm)	12 (4 × 3 array)	**03-395-488**	113.34
Upright Freezer Drawer Racks for 3" Boxes			
22 × 9.4 × 5.5" (55.9 × 23.9 × 14cm)	12 (4 × 3 array)	**03-395-472**	163.49
Upright Freezer Racks for 96- and 384-well Microtiter Plates			
22 × 9.2 × 5.5" (55.6 × 23.4 × 14cm)	Holds 84 plates w/ lids, 96 w/o lids	**03-395-489**	159.32
22 × 11× 5.5" (41.4 × 20.7 × 14cm)	Holds 96 plates w/ lids, 120 w/o lids	**03-395-473**	172.74
Upright Freezer Drawer Racks for 15 and 50mL Centrifuge Tubes			
22 × 4.9 × 5.5" (55.6 × 12.4 × 14cm)	Holds 80-15mL tubes	**03-395-474**	170.88
22 × 9.9 × 5.5" (55.6 × 25.1 × 14cm)	Holds 78-50mL tubes	**03-395-490**	243.81
Upright Freezer Racks for 100-place Cell Hinged Top Plastic Storage Boxes			
18.8 × 9.4 × 5.9" (47.8 × 23.9 × 14.9cm)	12	**03-395-492**	179.67
Upright Freezer Racks for 15 and 50mL Tube Boxes			
18.3 × 10.2 × 5.9" (46.5 × 25.9 × 15cm)	6 (3 × 2 array)	**03-395-475**	130.14
24.4× 10.2 × 5.9" (62 × 25.9 × 15cm)	8 (4 × 2 array)	**03-395-491**	194.96

Thermo Scientific™ CryoExtra™ Racks and Accessories

Racks, frames and electrical options

Racks and Boxes for CryoExtra

Description	For Use with	Mfr. No.	Cat. No.	Each
Racks				
Mini, 2mL, 13 cardboard boxes (25 cell divider)	CryoExtra 20, 40, 80 and 94	1950685	**19-506-85**	262.50
Mini, 2mL, 15 cardboard boxes (25-cell divider)	CryoExtra 94	1950686	**19-506-86**	295.24
Vertical, 2mL, 6 cardboard boxes (100 cell divider)	CryoExtra 94	1950694	**19-506-94**	186.58
Square, 2mL, 13 cardboard boxes (100 cell divider)	CryoExtra 20, 40, 80 and 94	1950696	**19-506-96**	272.00
Square, 2mL, 15 cardboard boxes (100 cell divider)	CryoExtra 94	1950683	**19-506-83**	315.50
Frames				
Bag capacity, 50mL bag, Fenwal 4R9951, holds 8 cassettes	CryoExtra 94	1950687	**19-506-87**	53.31
Bag capacity, 250mL bag, Fenwal 4R5461, holds 5 cassettes	CryoExtra 20, 40, 80 and 94	1950688	**19-506-88**	69.30
Bag capacity, 250mL bag, Fenwal 4R5461, holds 6 cassettes	CryoExtra 94	1950690	**19-506-90**	79.97
Bag capacity, 500mL bag, Fenwal 4R5462, holds 5 cassettes	CryoExtra 20, 40, 80 and 94	1950689	**19-506-89**	69.30
Bag capacity, 500mL bag, Fenwal 4R5462, holds 6 cassettes	CryoExtra 94	1950691	**19-506-91**	79.97
Bag capacity, 500mL bag, Gabrow DF-200, holds 5 cassettes	CryoExtra 94	1950692	**19-506-92**	69.30
Bag capacity, 700mL bag, Gabrow DF-700, holds 5 cassettes	CryoExtra 94	1950693	**19-506-93**	79.97

Thermo Scientific™ Sliding Drawer Inserts

For use with racks used in Thermo Scientific 13, 17, 23 and 28 cu. ft. ultra-low temperature freezers

Description	For Use with	Mfr. No.	Cat. No.	Pack of 5
Microplate insert	13 cu. ft. freezer	1950666P5	**1950666P5**	31.85
2" Box insert	13 cu. ft. freezer	1950668P5	**1950668P5**	31.85
Microplate insert	17 and 23 cu. ft. freezer	1950669P5	**1950669P5**	31.85
2" Box insert	17 and 23 cu. ft. freezer	1950670P5	**1950670P5**	31.85
Microplate insert	28 cu. ft. freezer	1950671P5	**1950671P5**	42.39
2" Box insert	28 cu. ft. freezer	1950672P5	**1950672P5**	42.39

Thermo Scientific™ Storage Tube Protection

Encases and seals CryoTube™ vials when storing samples in liquid nitrogen

- Heat shrink/pinch each end of the Nunc Cryoflex™ tubing around cryostorage tubes to prevent leakage of liquid nitrogen into the tubes during storage
- Transparent Nunc™ Cryosleeve™ tubing fits any Thermo Scientific Nunc or Nalgene™ cane and provides extra security during handling and submersion of tubes into the liquid phase without the tubes touching the liquid nitrogen
- Nunc Cryotube Mini-Boxes are ideal for storing small quantities of samples and shipping with a friction fit lid and durable high-impact polystyrene construction to protect samples

Nunc CryoFlex Tubing for CryoTube Vials

Description	Length, I.D.	Capacity	Mfr. No.	Cat. No.	Price
CryoFlec Tube Wrap	500mm, 14mm	Varies	343958	**12-565-177**	Pk. of 15/114.40
CryoSleeve Tubing	100mm, n/a	Varies	5016-0001	**15-350-23**	Cs. of 100/90.03
CryoTube Mini Box	N/A	5 Tubes	534479	**12-565-184**	Cs. of 350/937.98
CryoTube Mini Box	N/A	10 Tubes	534592	**12-565-185**	Cs. of 200/668.52

Wheaton KeepIT™ Freezer Boxes

Provide an ideal method for batching and storing samples.

Six different colors match the colors of CryoELITE™ Cryogenic Vials, creating alternatives for batching and identifying groups of samples.

Wheaton KeepIT Freezer Boxes

- KeepIT-100 accommodates up to 100 internal threaded vials, KeepIT-81 accommodates 81 external threaded vials and KeepIT-25 accommodates up to 25 internal or external threaded cryogenic vials; Vial sizes: 1.2 to 2mL
- Openings in bottom facilitate scanning CryoELITE 2D Data Matrix Bar Code Inserts and allow for drainage of liquid nitrogen
- Made from Eastman Tritan™ BPA-free, shatter-resistant resin
- Standard footprint is compatible with liquid nitrogen storage shelves and freezer drawers

Color	Mfr. No.	Cat. No.	Case of 10
KeepIT-25 For Internal and External Thread Vials			
White	W651702-W	**03-084-101**	78.88
Red	W651702-R	**03-084-102**	78.88
Pink	W651702-P	**03-084-103**	78.88
Yellow	W651702-Y	**03-084-104**	77.10
Green	W651702-G	**03-084-105**	76.70
Blue	W651702-B	**03-084-106**	78.88
KeepIT-81 For Internal and External Thread Vials			
Red	W651703-R	**13-606-100**	107.54
Pink	W651703-P	**13-606-101**	107.54
White	W651703-W	**13-606-102**	107.54
Yelllow	W651703-Y	**13-606-103**	107.54
Green	W651703-G	**13-606-104**	107.54
Blue	W651703-B	**13-606-105**	107.54
KeepIT-100 For Internal and External Thread Vials			
Red	W651704-R	**13-606-106**	107.54
Pink	W651704-P	**13-606-107**	107.54
White	W651704-W	**13-606-108**	107.54
Yellow	W651704-Y	**13-606-109**	107.54
Green	W651704-G	**13-606-110**	107.54
Blue	W651704-B	**13-606-111**	107.54

Cryopreservation Media

Thermo Scientific™ HyCryo™ Cryopreservation Media

Animal origin-free cryopreservation media for general use

- Serum-free, animal origin-free for cryogenic storage for standard cell lines
- Meets industry standard for viable cell recovery per vial; outperforms other cryo media solution in the market for viable cell recovery per vial
- Provided as a 2X solution; 0.2µm sterile filtered

NOTES:
For further manufacturing or research use.
Not for diagnostic or therapeutic use.

SR3000102

Description	Quantity	Mfr. No.	Cat. No.	Each
HyCryo Media	100mL	SR30001.02	**SR3000102**	145.20

Thermo Scientific™ HyCryo-STEM™ Cryopreservation Media

Designed specifically for stem cell storage

- Serum-free formulation maintains differentiation potential and minimizes spontaneous differentiation of stem cell
- Greater recovery of viable neural progenitor stem cells compared to industry standard cryopreservation media (growth media containing 10% DMSO)
- Achieves similar recovery of viable human stem cells compared to the industry standard cryopreservation media (a cocktail of 25% serum replacement and 10% DMSO)
- Provided as a 2X solution; 0.2µm sterile filtered

SR3000202

Description	Quantity	Mfr. No.	Cat. No.	Each
HyCryo-STEM	100mL	SR30002.02	**SR3000202**	154.80

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Freezers and Storage Systems

Thermo Scientific™ CryoMed™ Controlled-Rate Freezers

Precise freezing from -180° to +50°C for maximum accuracy of cell freezing

With six standard preset and 10 user-defined (20 steps each) freezing profiles that can be modified for custom protocols.

Easy Programming and Monitoring

- Chamber and sample temperatures and operation status simultaneously display on backlit LCD
- Chamber temperature monitored by fixed-mount Type T thermocouple
- Sample temperature monitored by Type T thermocouple with flexible cable (included)
- Pre-Cool step automatically begins temperature ramp when chamber and sample temperatures are equilibrated within 1°C
- Audible indicators alert operator when hold time has elapsed
- Continual operation if power outage lasts less than 10 seconds; audible/visual alarm for outages lasting longer than 10 seconds
- Modifiable access code for added security

LN_2 Freezing System Components

- Intuitive control panel and integrated thermal printer
- Dual solenoid valves increase LN_2 injection volume for precise
- Temperature control and accelerated freezing for optimum cell viability
- Specially designed air handling system and liquid nitrogen ring work in tandem for precise temperature control and uniformity
- Overtemperature protection on heating element
- Construction

Type 304 stainless-steel construction

- Exterior powder-coat finish
- Foamed in-place polyurethane insulation
- Bulb-style gaskets ensure tight door seal; PTFE heat-breaks prevent door from freezing closed
- Front- and top-access models are designed for human IVF and easy "seeding"

INCLUDES: 6' (1.8m) flexible stainless-steel transfer hose, 0.5" 35° flare, thermal paper, 25- to 9-pin serial interface cable/adapter and 10' (3m) RS-232 cable

COMPLIANCE: UL listed to U.S. and Canadian requirements; CE marked.

NOTES: All CryoMed freezers come with Controlled-Rate Freezing PC Interface software for connection to IBM™-compatible computer and external printer — download profiles and capture graphs, profile and sample information. Computer and external printer sold separately; contact your Fisher Scientific Customer Service Representative for more information.

Specifications	
Temperature Range	-180° to +50°C
Cabinet Material	Stainless steel with power-coat paint finish

TF7450, TF7452, TF7454, TF7456, TF7458, 11-679-078 to -082

Capacity	Interior D × W × H	Exterior L × W × H†	Mfr. No.	Cat. No.	Each
Front Access Models (-180° to +50° C)					
0.6 cu. ft. (17L)	13 × 7 × 12" (33 × 17.8 × 30.5cm)	20.4 × 31.7 × 20.4" (51.8 × 80.5 × 51.8cm)	7450	**TF7450**	20,074.27
1.2 cu. ft. (34L)	13 × 13 × 12" (33 × 33 × 30.5cm)	20.4 × 37.7 × 21.2" (51.8 × 95.8 × 53.8cm)	7452	**TF7452**	21,154.35
1.7 cu. ft. (48.1L)	13 × 19 × 12" (33 × 48.3 × 30.5cm)	20.4 × 43.7 × 21.2" (51.8 × 111 × 53.8cm)	7454	**TF7454**	22,234.31
Front and Top Access Models (-180° to +50°C)					
0.6 cu. ft. (17L)	13 × 7 × 12" (33 × 17.8 × 30.5cm)	20.4 × 31.7 × 21.2" (78.7 × 80.5 × 57.2cm)	7456	**TF7456**	22,164.00
1.2 cu. ft. (34L)	13 × 13 × 12" (33 × 33 × 30.5cm)	20.4 × 37.7 × 21.2" (51.8 × 95.8 × 53.8cm)	7458	**TF7458**	23,370.75
Front Access Models (-180° to +50°C)					
0.6 cu. ft. (17L)	13 × 7 × 12" (33 × 17.8 × 30.5cm)	20.4 × 31.7 × 21.2" (78.7 × 80.5 × 53.8cm)	7472	**11-679-078**	20,074.37
1.2 cu. ft. (34L)	13 × 13 × 12" (33 × 33 × 30.5cm)	20.4 × 37.7 × 21.2" (51.8 × 95.8 × 53.8cm)	7473	**11-679-079**	21,154.35
1.7 cu. ft. (48.1L)	13 × 19 × 12" (33 × 48.3 × 30.5cm)	20.4 × 43.7 × 21.2 " (51.8 × 111 × 53.8cm)	7474	**11-679-080**	22,234.31
Front and Top Access IVF Models (-180° to +50°C)					
0.6 cu. ft. (17L)	13 × 7 × 12" (33 × 17.8 × 30.5cm)	20.4 × 31.7 × 21.2 " (51.8 × 80.5 × 53.8cm)	7475	**11-679-081**	22,479.60
1.2 cu. ft. (34L)	13 × 13 × 12" (33 × 33 × 30.5cm)	20.4 × 37.7 × 21.2" (51.8 × 95.8 × 53.8cm)	7476	**11-679-082**	23,118.79

† Width includes vent. Add 2.75" (7.1cm) to length for the door handle and LN_2 injection fittings.

Thermo Scientific™ CryoPlus™ Storage Systems

Low-profile storage tanks combine liquid nitrogen storage reliability with microprocessor technology

Sixteen preset audible and visual alarm combinations provide maximum product protection. Automatic defogger is incorporated into the manual fill index to improve visibility during retrieval.

Thermo Scientific CryoPlus Storage Systems

Microprocessor Control

- Precise liquid level control with over 16 parameters; with autofill system
- Control panel is mounted on top for convenient access and easy touchpad programming
- Digital temperature display sensor is located under the lid; this indicates the highest temperature reading inside the tank
- 24 tricolor LEDs continuously display actual liquid nitrogen level and high-level/low-level setpoints
- Alarm contacts for remote monitoring of storage tank conditions

Durable Construction

- Low-profile tank with vacuum-insulated, stainless-steel chamber
- Counterbalanced lid with foamed-in-place, high density polyurethane insulation; dedicated vent; 100% clearance
- Two independent, flexible lid gaskets reduce moisture migration into the chamber
- Liquid level sensor and fill port within vacuum space, for maximum storage and sensor protection
- Front-mounted key lock and rear-mounted recessed power switch; control panel can also be locked
- Temperature sleeve (included) provides colder temperatures and efficient vapor phase operation
- Heavy-duty casters

ORDERING INFORMATION:
Optional racks, canisters, frames and risers allow you to create an organized inventory system that provides optimum storage in liquid or vapor phase. Contact your Customer Service Representative for details.

INCLUDES:
CryoPlus 1 has 0.5" 45° flare, 4' (1.2m) flexible hose. CryoPlus 2, 3 and 4 come with 0.5" 45° flare, 6' (1.8m) flexible hose.

COMPLIANCE:
UL listed to U.S. and Canadian requirements; CE marked.

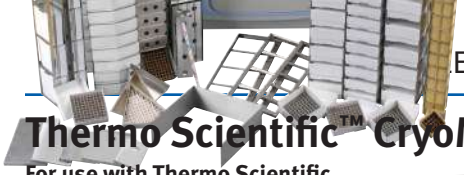
Specifications	
Color	White
Body	18-gauge cold-rolled steel with powder-coated paint
Reservoir	Stainless steel
With Level Monitor	Yes
With Autofill System	Yes

LN_2 Capacity	Rack/Vial Capacity	Reservoir D × Dia.	Static Evaporation Rate	Static Holding Time	Exterior L × W × H†	Electrical Requirements	Mfr. No.	Cat. No.	Each
23.8 gal. (90L)	5500 to 6318	27.5 × 16" (69.9 × 40.6cm)	3L/day	30 days	26 × 21.5 × 41" (66 × 54.6 × 104.1cm)	200/230V 50/60Hz	7401	**TF7401**	9570.00
						100/120V 50/60Hz	7400	**TF7400**	9781.00
52.8 gal. (200L)	13,000	27.5 × 24" (69.9 × 61cm)	5L/day	40 days	34 × 28.5 × 41" (86.4 × 72.4 × 104.1cm)	----	----	**----**	----
						100/120V 50/60Hz	7402	**TF7402**	13,022.91
89.8 gal. (340L)	22,100 to 24,000	27.5 × 31" (69.9 × 78.7cm)	8L/day	42.5 days	41.5 × 34.5 × 41" (105.4 × 87.6 × 104.1cm)	200/230V 50/60Hz	7405	**TF7405**	18,640.00
						100/120V 50/60Hz	7404	**TF7404**	18,984.18
145.8 gal. (552L)	36,400 to 38,500	27.5 × 39.5" (69.9 × 100.3cm)	10L/day	55 days	50 × 43.5 × 47" (127 × 110.5 × 119.4cm)	----	----	**----**	----
						100/120V 50/60Hz	7406	**TF7406**	24,887.48

† Add 5" (12.7cm) to length for utilities and lid opening.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.



Thermo Scientific™ CryoMed™ Racks

For use with Thermo Scientific CryoMed controlled-rate freezers

NOTES:
Refer to specifications for additional details and listing of compatible controlled-rate freezers.

Thermo Scientific CryoMed Racks

Description	Holds	For Use with	Mfr. No.	Cat. No.	Each
Canister rack	Canisters (10 position)	All CryoMed controlled-rate freezers	185089	**11-679-084**	695.67
Straw rack	40 0.25/0.5mL straws	All CryoMed controlled-rate freezers	4000294	**13-262-816**	186.20
Cane rack	77 canes	All CryoMed controlled-rate freezers	4000700	**13-262-836**	566.00
Cane rack	162 canes, 5 to 6 ampules/cane	CryoMed 7452, 7453m 7473, 7454, 7455, 7474, 7458, 7459, 7476	4000303	**TF-4000303**	412.00
Skin rack	48 skin packets 5 × 7" (12.7 × 17.8cm) and 4 × 6" (10.2 × 15.2cm)	All CryoMed controlled-rate freezers	4000310	**TF-4000310**	555.50
Skin rack	72 packets	All CryoMed controlled-rate freezers	4000311	**13-262-817**	3940.00
Skin rack	24 skin packets	All CryoMed controlled-rate freezers	4000312	**13-262-818**	249.33
Canister rack	10 canisters, model 4000610	All CryoMed controlled-rate freezers	4000340	**TF-4000340**	451.41
Small rack	76 1.2mL/2mL ampules	All CryoMed controlled-rate freezers	4000701	**TF-4000701**	250.00
Vial rack holder	Five 1.2mL/2mL cryo racks	All CryoMed controlled-rate freezers	4000702	**TF-4000702**	310.50
Large rack	161 1.2mL/2mL ampules	CryoMed 7452, 7453, 7473, 7454, 7455, 7474, 7458, 7459, 7476	4000703	**TF-4000703**	313.00
Vial rack holder	Five 1.2mL/2mL cryo racks	CryoMed 7452, 7453, 7473, 7454, 7455, 7474, 7458, 7459, 7476	4000704	**TF-4000704**	322.00
Small rack	76 4mL/5mL ampules	All CryoMed controlled-rate freezers	4000705	**13-262-837**	217.00
Vial rack holder	Three 4mL/5mL cryo racks	All CryoMed controlled-rate freezers	4000706	**13-262-838**	289.50
Large rack	161 4mL/5mL ampules	CryoMed 7452, 7453, 7473, 7454, 7455, 7474, 7458, 7459, 7476	4000707	**13-262-839**	255.00
Vial rack holder	Three 4mL/5mL cryo racks	CryoMed 7452, 7453, 7473, 7454, 7455, 7474, 7458, 7459, 7476	4000708	**13-262-840**	315.00

Thermo Scientific™ Cryogenic Boxes

For use in Thermo Scientific CryoPlus™ LN_2 cryopreservation storage

Thermo Scientific Cryogenic Boxes

Cardboard boxes

- Vertical (2mL with 100 cell divider)
- Square (2, 4 or 5mL with 100 cell divider)
- Arrowhead (2, 4 or 5mL with 81 cell divider)

Polycarbonate boxes

- Vertical (2mL with 100 or 81 cell division)
- Square (2mL with 100 or 81 cell division; 4mL with 81 cell division)

Stainless-steel boxes†

- Square (2 or 4mL)
- Arrowhead (2mL)

Description	Mfr. No.	Cat. No.	Each
Divider, cardboard, 25-cell	189387	**13-262-782**	7.58
Cardboard box, square, 2.75", does not include 25-cell divider	189470	**13-262-792**	9.59
5-Box liquid-phase rack	4000012	**TF4000012**	175.90
Divider, cardboard, 100-cell	4000013	**TF4000013**	3.95
Cardboard box, vertical, 2mL with 100-cell divider	4000014	**TF4000014**	7.35
Cardboard box, square, 4mL with 100 cell divider	4000015	**11-679-099**	3.85
Divider, cardboard, 40-cell	4000174	**11679107**	2.49
81-Cell divider	4000181	**TF4000181**	8.85
Cardboard box, 2.0", rectangular, includes 40-cell divider	4000189	**11-679-109**	5.05
Cardboard box, rectangular, 3"	4000190	**TF4000190**	4.74
Arrowhead cardboard box, 2mL with 81 (includes 81 cell divider)	4000193	**11-679-110**	8.51
Arrowhead stainless-steel box, Jumbo, 2 in.	4000194	**11-679-111**	30.00
Arrowhead cardboard box, 4mL with 81 (includes 81 cell divider)	4000195	**13-262-813**	7.24
Stainless steel box, square, 2mL (does not include 100 cell divider)	4000238	**11-679-118**	18.24
Stainless steel box, square, 4mL (does not include 100-cell divider)	4000239	**TF4000239**	15.17
2mL vertical rack, 12 cardboard boxes (25 cell divider)	4000260	**13-262-815**	286.50

†Stainless-steel boxes do not include cell dividers

Thermo Scientific™ CryoPlus™ Series Racks and Holders

Freezer racks, holders, risers and other accessories for use in various Thermo Scientific cryopreservation equipment

Vertical Racks, Liquid Phase

- 2mL, 5 cardboard boxes (100 cell divider)
- 2mL, 12 cardboard boxes (25 cell divider)

Vertical Racks, Vapor Phase

- 2mL, 4 cardboard boxes (100 cell divider)

Square Racks, Liquid Phase

- 2mL, 12 cardboard boxes (100 cell divider)
- 2mL, 13 cardboard boxes (100 cell divider)
- 2mL, 13 stainless steel boxes (100 cell divider)
- 4mL, 8 cardboard boxes (100 cell divider)
- 4mL, 8 stainless steel boxes (100 cell divider)
- 5mL, 7 cardboard boxes (100 cell divider)

Square Racks, Vapor Phase

- 2mL, 11 cardboard boxes (100 cell divider)
- 2mL, 11 stainless steel boxes (100 cell divider)
- 4mL, 7 cardboard boxes (100 cell divider)
- 4mL, 7 stainless steel boxes (100 cell divider)
- 5mL, 6 cardboard boxes (100 cell divider)

Canister Cane Storage, Vapor Phase

- 2mL, 4mL, 5mL vial and straw canes, includes 8 canisters

Thermo Scientific CryoPlus Series Racks and Holders

Arrowhead Racks, Vapor Phase

- 2mL, 12 cardboard boxes (81 cell divider)
- 2mL, 13 cardboard boxes (81 cell divider)
- 2mL, 12 stainless steel boxes (81 cell divider)
- 4mL, 8 cardboard boxes (81 cell divider)
- 4mL, 8 stainless steel boxes (81 cell divider)
- 5mL, 7 cardboard boxes (81 cell divider)

Arrowhead Racks, Vapor Phase

- 2mL, 11 cardboard boxes (81 cell divider)
- 2mL, 11 stainless steel boxes (81 cell divider)
- 2mL, 10 cardboard boxes (81 cell divider)

Description	Holds	Includes	For Use with	Mfr. No.	Cat. No.	Each
Square Rack, Vapor Phase	2mL vial boxes	11 cardboard boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000001	**TF-4000001**	245.50
Square Rack, Vapor Phase	2mL vial boxes	11 stainless steel boxes with 100 cell dividers	CryoPlus 1, 2, 3, 4	4000002	**11-679-095**	422.50
Square Rack, Vapor Phase	4mL vial boxes	7 cardboard boxes with 100 cell dividers	CryoPlus 1, 2, 3, 4	4000003	**13-262-797**	171.50
Square Rack, Vapor Phase	4mL vial boxes	7 stainless steel boxes with 100 cell dividers	CryoPlus 1, 2, 3, 4	4000004	**13-262-798**	270.69
Square Rack, Vapor Phase	5mL vial boxes	6 cardboard boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000005	**11-679-096**	148.30
Square Rack, Liquid Phase	2mL vial boxes	13 cardboard boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000006	**TF-4000006**	292.00
Square Rack, Liquid Phase	2mL vial boxes	13 stainless steel boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000007	**11-679-097**	471.50
Square Rack, Liquid Phase	4mL vial boxes	8 cardboard boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000008	**TF-4000008**	205.50
Square Rack; Liquid Phase	4mL vial boxes	8 stainless steel boxes	CryoPlus 1, 2, 3, 4	4000009	**13-262-799**	311.00
Square Rack, Liquid Phase	5mL vial boxes	7 cardboard boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000010	**11-679-098**	176.60
Square Rack, Liquid Phase	2mL vial boxes	12 cardboard boxes with 100 cell divider	CryoPlus 1, 2, 3, 4	4000042	**TF-4000042**	288.50
Arrowhead Rack, Liquid Phase	5mL vial boxes	7 cardboard boxes with 81 cell divider	CryoPlus 1	4000043	**13-262-800**	297.40
Arrowhead Rack, Liquid Phase	2mL vial boxes	13 cardboard boxes with 81 cell divider	CryoPlus 1	4000044	**TF-4000044**	525.50
Arrowhead Rack, Liquid Phase	4mL vial boxes	8 stainless steel boxes with 81 cell divider	CryoPlus 1	4000105	**13-262-811**	391.65
Arrowhead Rack, Liquid Phase	2mL vial boxes	10 cardboard boxes with 81 cell divider	CryoPlus 1	4000108	**TF-4000108**	374.50
Arrowhead Rack, Vapor Phase	2mL vial boxes	11 cardboard boxes with 81 cell divider	CryoPlus 1	4000110	**13-262-812**	371.00
Arrowhead Rack, Vapor Phase	2mL vial boxes	11 stainless steel boxes with 81 cell divider	CryoPlus 1	4000111	**13-762-368**	512.00
Arrowhead Rack, Liquid Phase	2mL vial boxes	12 cardboard boxes with 81 cell divider	CryoPlus 1	4000112	**11-679-105**	403.84

ACCESSORIES

Thermo Scientific™ CryoMed™ IVF Accessories

For use in CryoMed 7456, 7457, 7475, 7458, 7459, 7476 freezers.

Description	Holds	Mfr. No.	Cat. No.	Each
Sleeve Plug	----	180255	**13-262-781**	34.96
4-Box vapor-phase vertical rack	Four 2" (5.1cm) Boxes (included) that hold 2mL Vials	4000011	**TF4000011**	134.90
Straw Holder	Four 0.25/0.5mL Straws	4000710	**13-262-841**	258.00
Cane holder	Six 1.2mL or five 2mL Vials	4000714	**TF4000714**	59.88

Thermo Scientific CryoMed IVF Accessories

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Printers for Thermo Scientific™ CryoMed™ and CryoPlus™ Freezers

Available in 120V/60Hz or 220V/50Hz.

- TF4000565 — 120V/60Hz printer with cable assembly and RS-232 connector kit
- 13-262-834 — 220V/50Hz printer with cable assembly and RS-232 connector kit
- TF4000566 — Thermal printer paper (5 rolls/package)

INCLUDES:
Cable assembly and RS-232 connector kit

TF4000565

Description	Electrical Reqts.	Mfr. No.	Cat. No.	Price
Thermal Data Printer	120V 60Hz	4000565	**TF4000565**	Ea./1481.00
Thermal Data Printer	220V 50Hz	4000665	**13-262-834**	Ea./1492.00
Thermal Printer Paper for Printer TF4000565	----	4000566	**TF4000566**	Pk. of 5/120.00

Portable LN_2 Containers

Thermo Scientific™ Locator Plus™ Rack and Box Systems

Compact design, maximum storage

Minimizes space requirements while maximizing storage capacity. Suited for both manual and computerized inventory record-keeping methods.

- Outstanding temperature uniformity: samples are stored below -180°C, even when less than 2" (5cm) of liquid nitrogen remains in the vessel
- Optional Ultrasonic Level Monitor safeguards irreplaceable samples with minimal liquid nitrogen evaporation and conduction
- Optional monitor provides continuous LED readout of liquid nitrogen level in 1/8 increments
- Audible alarm sounds when nitrogen level falls below safe range; dry remote alarm contact for remote monitoring
- Advanced vacuum insulation minimizes liquid nitrogen evaporation and reduces operating costs
- Secure locking hasp prevents unauthorized entry

Locator 4 Plus and Locator 8 Plus

- With level monitor
- Outside Dia.: 55.8cm; Height 100.3cm

Locator Jr. Plus

- Without level monitor
- Outside Dia.: 55.9cm; Height: 67.9cm

Locator 6 Plus

- Without level monitor
- Outside Dia.: 66cm; Height: 100.3cm

Thermo Scientific Locator Plus Rack and Box Systems

INCLUDES:
Indexed stainless-steel racks designed for use with 2" (5cm) Thermo Scientific Nalgene™ Cryogenic Boxes (larger racks available for storage of 5.0mL ampules in Locator Jr. Plus and Locator 4 Plus). Available with or without Liquid Nitrogen Level Monitor (optional, factory-installed monitor can also be purchased separately).

REQUIRES:
Thermo Scientific Nalgene Cryogenic Boxes (order separately)

CERTIFICATIONS:
CSA, CE

LN_2 Capacity	Model	Holds No. of Ampules	No. of Boxes per Rack	No. of Racks	Static Holding time	Mfr. No.	Cat. No.	Each
Without Level Monitor								
32 gal. (121L)	Locator 4 Plus	4000	10	4	122 days	CY50935-70	**11-676-55**	4942.42
46.25 gal. (184L)	Locator 6 Plus	6000	10	6	185 days	CY50985-70	**11-676-56**	5696.36
16.13 gal. (71L)	Locator Jr. Plus	2000	5	4	83 days	CY50925-70	**11-676-58**	4504.32
32 gal. (121L)	Locator 8 Plus	2000	10	8	201 days	CY50945-70	**11-676-71**	4942.42
With Level Monitor								
16.13 gal. (71L)	Locator Jr. Plus	2000	5	4	83 days	CY509106	**13-762-353**	5594.48
32 gal. (121L)	Locator 4 Plus	4000	10	4	122 days	CY509108	**13-762-355**	6022.40
46.25 gal. (184L)	Locator 6 Plus	6000	10	6	185 days	CY509109	**13-762-356**	6786.55
32 gal. (121L)	Locator 8 Plus	2000	10	8	201 days	CY509111	**13-762-358**	6022.40

Thermo Scientific™ Locator™ Cryogenic Rack & Box Systems

Inventory system that makes cell sample retrieval quick and easy

Compact design minimizes space requirements while maximizing storage capacity. Suited for both manual and computerized inventory record-keeping methods. Super-insulated vessels have special, narrow-mouth design that conserves liquid nitrogen by minimizing evaporation.

- Outstanding temperature uniformity: samples are stored below -180°C, even when less than 2" (5cm) of liquid nitrogen remains in the vessel
- Ultrasonic Level Monitor safeguards irreplaceable samples with minimal liquid nitrogen evaporation and conduction
- Advanced vacuum insulation minimizes liquid nitrogen evaporation and reduces operating costs
- Optional monitor provides continuous LED readout of liquid nitrogen level; activates visual and audible alarms when level falls below safe range of approximately 1" (2.5cm)
- Optional alarm also alerts operator in the event of excessive liquid nitrogen loss
- Secure locking hasp prevents unauthorized entry

11-676-1C, 11-676-1A, 11-676-1B

INCLUDES:
Stainless-steel indexed racks that fit into corresponding locations in the vessel. Each rack has individual storage compartments that hold one Thermo Scientific Nalgene™ Cryogenic Storage Box.

REQUIRES:
Nalgene Cryogenic Storage Boxes (order separately). Each box has individually numbered storage areas for use with vials sized 2.0mL and smaller.

CERTIFICATIONS: CSA, CE

Specifications	
Outside Dia.	22" (55.8cm)

Model	Capacity	Vial Capacity†	Average Daily Consumption	Static Holding Time	No. of Racks/Boxes per Rack/Boxes per System	Mfr. No.	Cat. No.	Each
Without Liquid Nitrogen Level Monitor								
Locator Jr.	60L	1600 (100/box)	0.85L	70 days	4/4/16	CY50925	**11-676-1C**	4410.00
Locator 4	111L	3600 (100/box)	0.99L	112 days	4/9/36	CY50935	**11-676-1A**	4730.00
Locator 8	111L	1800 (25/box)	0.6L	185 days	8/9/72	CY50945	**11-676-1B**	4730.00
With Liquid Nitrogen Level Monitor, 220V 50Hz								
Locator Jr.	60L	1600 (100/box)	0.85L	70 days	4/4/16	CY509105	**13-762-352**	5770.00
Locator 4	111L	3600 (100/box)	0.99L	112 days	4/9/36	CY509107	**13-762-354**	5810.00
Locator 8	111L	1800 (25/box)	0.6L	185 days	8/9/72	CY509110	**13-762-357**	5900.00
Racks without Boxes, for use with								
Locator 4	----	2mL vials, 100/box	----	----	----	HR509X2A	**13-762-359**	223.50
Locator 6	----	5mL vials	----	----	----	HR509X32A-70	**13-262-845**	213.81
Locator 8	----	2mL vials, 25/box	----	----	----	HR509X1A	**13-762-360**	191.20

† 1.2/2mL Nalgene cryogenic vials

Thermo Scientific™ Nalgene™ Cryogenic Storage Boxes for Locator™ and Locator Plus™ Systems

Fit in stainless-steel Thermo Scientific Ultra-Low Temperature Freezer Racks

11-676 Series

Box Height	For Vial Size	Vials per Box	For Use with	Mfr. No.	Cat. No.	Case of
2"	1.0 and 1.5mL	100	Locator Jr. Plus, Locator 4 Plus, Locator 6 Plus	CS509X24	**TF-116-7647**	Ea./158.60
2"	2.0mL	25	Locator 8 Plus	CS509X3	**11-676-3A**	48/697.50
2"	2.0mL	81	Locator Jr. Plus, Locator 4 Plus, Locator 6 Plus	CS509X4	**11-676-3B**	40/541.50
2"	2.0mL	81	Locator Jr. Plus, Locator 4 Plus, Locator 6 Plus	CS509X5	**11-676-3C**	20/298.44
4"	5.0mL	81	Locator Jr. Plus, Locator 4 Plus, Locator 6 Plus	CS509X10	**TF-116-7661**	Ea./40.30

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Thermo Series Liquid Nitrogen Transfer Vessels

For safe and efficient storage and handling of liquid nitrogen

- Designed to bring liquid nitrogen to other cryovessels
- Lightweight aluminum dewars assure low-static evaporation rates
- Optional withdrawal device, 12mL dipper and wheeled accessory cart
- Compact Thermo 5 and 10 dewars feature a convenient pail-style handle for pouring and for use in applications where only small quantities of liquid nitrogen are needed
- Thermo 10, 20 and 30 can be fitted with self-pressurized withdrawal accessory devices to easily dispense LN2 without pouring

11-670-5 Series

Model	Capacity	Dia. × Height	Neck Diameter	Static Evap. Rate	Static Holding Time	Weight Full	Mfr. No.	Cat. No.	Each
Thermo 5	5L	8.8 × 18.2" (22.4 × 46.2cm)	2.2" (5.6cm)	5 oz./day	33.3 days	17 lb. (7.7kg)	TY509X1	**11-670-5A**	1085.06
Thermo 10	10L	10.3 × 21.5" (26.2 × 54.6cm)	2.2" (5.6cm)	6 oz./day	55.6 days	31 lb. (14kg)	TY509X2	**11-670-5B**	1140.08
Thermo 20	21L	14.5 × 24.7" (36.8 × 62.8cm)	2" (5cm)	6 oz./day	116.7 days	56 lb. (25.4kg)	TY509X3	**11-670-5C**	1356.08
Thermo 30	32L	17 × 24.1" (43.2 × 61.2cm)	2.5" (6.4cm)	7.375 oz./day	145 days	82 lb. (37.2kg)	TY509X4	**11-670-5D**	1573.09

Thermo Scientific™ BioCane™ Canister and Cane Systems

Canister storage systems for canes in five sizes to meet the needs of most labs

- With six stainless-steel canisters to accommodate vials
- Canisters are numbered and color-coded to simplify sample identification
- Durable aluminum construction and vacuum insulation
- Narrow-mouth design minimizes LN_2 evaporation
- Secure locking clasp

INCLUDES: Six canisters

CERTIFICATIONS: CE

11-675-90 Series

Model	Capacity	No. of Vials/Cane†	Dia. × H	Neck Dia.	Static Evaporation Rate	Static Holding Time	Mfr. No.	Cat. No.	Each
Bio-Cane 11	2.875 gal./day (11L/day)	180	10.25 × 21.625" (25.9 × 54.9cm)	2" (5.1cm)	5 oz. (0.15L)	73 days	CK509X1	**11-675-90**	1241.15
Bio-Cane 20	5.375 gal./day (20.5L/day)	150	14.5 × 25.7" (36.8 × 65.3cm)	2" (5.1cm)	3 oz. (0.09L)	227 days	CK509X2	**11-675-91**	1682.09
Bio-Cane 34	9.25 gal./day (34.8L/day)	630	18.25 × 26.625" (46.4 × 67.6cm)	3.5" (8.8cm)	6 oz. (0.18L)	193 days	CK509X3	**11-675-92**	2200.71
Bio-Cane 47	12.5 gal./day (47.4L/day)	1320	20 × 26.5" (50.8 × 67.3cm)	5" (12.7cm)	0.125 gal. (0.39L)	121 days	CK509X4	**11-675-93**	2557.30
Bio-Cane 73	19.1 gal./day (73L/day)	2400	22 × 27.3" (55.9 × 69.3cm)	6" (15.2cm)	0.187 gal. (0.6L)	121 days	CK509X6	**13-762-351**	5370.83

† Based on 6 ampules per cane.

Thermo Scientific™ Arctic Express™ Dual Storage Systems

Allow dry liquid nitrogen transport of nonhazardous samples for up to 30 days

Dual shipper storage: When filled with liquid nitrogen and placed in the laboratory, unit can be used as a "can and cane" storage system indefinitely with static holding times of up to 125 days.

- Aluminum vessels with lockable lid
- Hold six numbered, color-coded, stainless-steel cans (included), which accommodate canes that hold ampules
- Hard-shell shipping container comes standard

WARRANTY: 36 months

CERTIFICATIONS: CE

11-675-900 Series

Model	LN_2 Capacity	No. of Ampules (1.2mL)	Dia. × H	Neck Diameter	Static Evaporation Rate	Static Holding Time	Shipping Weight	Mfr. No.	Cat. No.	Each
Dual 10†	10L (2.625 gal.)	150 × 2mL	10.2 × 21.6" (25.9 × 54.9cm)	5.08cm (2")	0.875 gal./day (3L/day)	21 shipper/42 lab	34 lb. (15.5kg)	CK50920	**11-675-900**	1898.09
Dual 28†	28L (7.125 gal.)	630 × 2mL	18.2 × 22" (46.2 × 55.9cm)	9.7cm (3.8")	2.125 gal./day (8L/day)	21 shipper/50 lab	60 lb. (27.3kg)	CK50922	**11-675-903**	2333.15
Arctic Express Dual 19	18.5L (4.9 gal.)	175 × 2mL	14.5 × 25.7" 36.8 × 65.3cm	5.6cm (2.2")	0.793 gal./day (3L/day)	21 shipper/125 lab	46 lb. 20.9kg	CK50921	**13-262-844**	2272.03

† Include reusable Styrofoam™-insulated plastic "mushroom" shipping case to prevent damage

Thermo Scientific™ CryoExtra™ High-Efficiency Cryogenic Storage

Outstanding sample protection with uniform cryogenic temperatures throughout the vessel

Designed to maximize sample capacity with minimum footprint, CryoExtra accepts both vertical and horizontal racks. 93,000 sample capacity model has the same footprint as the 79,300 sample capacity model, saving valuable floor space.

- Four capacities from 407 to 1630L
- Sample capacity from 19,500 to 93,000 2mL vials or 32,058 to 155, 100 1mL vials in a single tank
- Outstanding temperature uniformity
- Advanced temperature monitor and alarms
- Microprocessor-based LN_2 level control
- Push-button de-fog for easy sample location
- User comfort features and convenient, built-in workspace
- Lockable lid for sample protection
- Designed for vapor-phase storage
- Folding step for user comfort
- Large LED temperature display

ORDERING INFORMATION:
Optional racks, canisters, frames and risers allow you to create an organized inventory system that provides optimum storage in liquid or vapor phase. Contact your Customer Service Representative for details.

INCLUDES:
0.5" 45° flare, 6' (1.8m) stainless steel flexible hose

REQUIRES:
22psi low pressure LN_2 supply tank (sold separately)

CERTIFICATIONS:
Not UL or CE marked.

NOTES:
Product height clearance: 77" for CryoExtra 20 and CryoExtra 40; 88" for CryoExtra 80; 93" for CryoExtra 94

Thermo Scientific CryoExtra

Description	LN_2 capacity (capacity under turntable)	Number of Vials	Shipping Dimensions (L × W × H)	Shipping Weight	Cat. No.	Each
Thermo Scientific CryoExtra 20	407L (46L)	19,500	48 × 48 × 74" (122 × 122 × 188cm)	1025 lb. (465kg)	**CE8020**	21,380.00
Thermo Scientific CryoExtra 40	606L (76L)	41,600	63 × 63 × 74" (160 × 160 × 188cm)	1350 lb. (612kg)	**CE8040**	29,150.00
Thermo Scientific CryoExtra 80	1350L (150L)	79,300	72 × 72 × 74" (183 × 183 × 188cm)	2000 lb. (907kg)	**CE8080**	48,850.00
Thermo Scientific CryoExtra 94	1630L (300L)	93,000	72 × 72 × 84" (183 × 183 × 213.4cm)	2650 lb. (1202kg)	**CE8094**	55,100.00

Thermo Scientific™ Arctic Express™ Transport Systems

Ideal for shipping infectious materials or biological samples at cryogenic temperatures with the highest safety and security

- Approved for worldwide shipment by UN and IATA
- Innovative material absorbs liquid nitrogen to prevent spillage during shipment
- 8-, 13- and 21-day liquid nitrogen holding times allow specimens to be safely shipped while preserving sample integrity
- Canister safely holds biological materials in shipper
- Lockable lid with internal security compartment provides protection and sample isolation
- Cryovials wrapped in a fiber absorbent material to absorb sample if spillage occurs
- Lightweight aluminum design and convenient pail-style handle
- Easily transported via most common carriers

ORDERING INFORMATION:
Shipments of bone marrow, heart valves or other large samples require specific package size to determine capacity.

Arctic Express Transport Systems

LN_2 Capacity	No. of Vial(s)	Evaporation Rate†	Neck I.D.	Overall Dia. x H	Static Holding time	Weight: Empty/Full/ Shipping	Mfr. No.	Cat. No.	Each
4.3L	48 × 1.2mL; 48 × 2mL; 24 × 4mL; 16 × 5mL	0.2L/d	5cm (2")	22.1 × 49.2cm (8.7 × 19.4")	21 days	5.9kg (13 lb.)/9.1kg (20 lb.)/13.2kg (29 lb.)	CY50905	**11-676-69**	2231.26
10L	966 × 1.2mL; 966 × 2mL; 483 × 4mL; 322 × 5mL	0.7L/d	21.6cm (8.5")	38.1cm (15")	14 days	13.6kg (30 lb.)/21.4kg (47 lb.)	CY50910	**13-762-350**	4030.00
1.5L	9 × 1.2 or 2mL; 6 × 4mL; 3 × 5mL	0.19L/d	3.5cm (1.4")	18.4 × 34.3cm (7.25 × 13.5")	8 days	2.7kg (6 lb.)/4kg (8.8 lb.)/10.9kg (24 lb.)	CY50915	**11-676-3D**	1898.09
10L	480 × 1.2mL; 384 × 2mL; 288 × 4mL	0.7L/d	21.6cm (8.5")	38.1 × 58.4cm (15 × 23")	14 days	16.4kg (36 lb.)/24.1kg (53 lb.)/26.4kg (58 lb.)	CY50920	**11-675-902**	5319.38

†Static evaporation rates are based on new container performance with no lid openings and no product loads. Actual working performance may vary with individual applications.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Cylinders

Glass Calibrated - "To Deliver"

Fisherbrand® Serialized Class A Cylinders with Certificate of Calibration

Calibrated "To Deliver"

- Traceability
- White scale

INCLUDES:
With individual fused-in serial numbers and, in addition to traceability certification, are supplied with Certificates of Calibration that list apparent volumes and calibration correction factors

08-557DC

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of
25mL	0.2mL	±0.17mL	200mm	**08-557BC**	298.92	----
50mL	1mL	±0.25mL	225mm	**08-557CC**	299.68	----
100mL	1mL	±0.40mL	255mm	**08-557DC**	311.00	----
1000mL	10mL	±6.0mL	460mm	**09-730-31**	----	1/395.50
2000mL	20mL	±2.0mL	520mm	**08-557HC**	472.00	----

Fisherbrand® Serialized Class A Cylinders with Certificate of Traceability

Calibrated "To Deliver"

- Serialized
- White scale
- Molded hexagonal base

INCLUDES:
Certificate that indicates cylinder is individually calibrated and certified against equipment whose calibration is traceable to the National Institute of Standards and Technology (NIST™); lists the weight set used, the test number and the date of testing

08-557F

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of
10mL	0.1mL	±0.10mL	175mm	**08-557A**	95.57	6/500.10
25mL	0.2mL	±0.17mL	200mm	**08-557B**	105.77	6/553.33
50mL	1mL	±0.25mL	225mm	**08-557C**	105.39	6/551.75
100mL	1mL	±0.50mL	255mm	**08-557D**	114.14	6/597.23
250mL	2mL	±1.00mL	330mm	**08-557E**	130.97	4/456.45
500mL	5mL	±2.0mL	375mm	**08-557F**	159.20	4/546.50
1000mL	10mL	±3.0mL	460mm	**09-730-30**	187.60	2/316.00
2000mL	20mL	±6.0mL	520mm	**08-557H**	275.00	----

Fisherbrand® Class B Cylinders with Single Amber Metric Scale

Calibrated "To Deliver"

- Ideal for use with light-colored liquids
- Dark amber graduations provide contrast for easy readings
- Heavy round bases and pouring spouts
- Accuracy is assured even at lowest graduations; first 10% of volume is not graduated

COMPLIANCE:
Designed from ASTM™ E 1272, Style 1, Class B requirements.

08-570E

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of
5mL	0.1mL	±0.1mL	120mm	**08-570A**	24.35	36/677.00
10mL	0.2mL	±0.20mL	140mm	**08-570B**	22.35	36/629.50
25mL	0.5mL	±0.34mL	140mm	**08-570C**	32.55	36/908.50
50mL	1mL	±0.50mL	190mm	**08-570D**	36.25	36/1014.00
100mL	1mL	±1.00mL	260mm	**08-570E**	43.75	36/1223.00
250mL	2mL	±2.0mL	330mm	**08-570F**	55.00	18/787.00
500mL	5mL	±4.0mL	375mm	**08-570G**	78.50	12/749.50
1000mL	10mL	±6.0mL	460mm	**08-570H**	96.40	8/674.50
2000mL	20mL	±12.0mL	520mm	**08-570J**	160.60	6/814.50

Fisherbrand® Standard Class B Graduated Cylinders

Calibrated "To Deliver"

- White-ceramic graduations
- Heavy round bases
- Handy pouring spouts
- Accuracy is assured even at the lowest graduations; first 10% volume is not graduated

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of
5mL	0.1mL	±0.1mL	120mm	**08-550A**	25.15	36/699.50
10mL	0.2mL	±0.20mL	140mm	**08-550B**	22.40	36/631.50
25mL	0.5mL	±0.34mL	140mm	**08-550C**	32.45	36/906.50
50mL	1mL	±0.50mL	190mm	**08-550D**	36.60	36/1023.00
100mL	1mL	±1.00mL	260mm	**08-550E**	43.35	36/1212.00
250mL	2mL	±2.0mL	330mm	**08-550F**	54.90	18/784.50
500mL	5mL	±4.0mL	375mm	**08-550G**	75.80	12/722.50
1000mL	10mL	±6.0mL	460mm	**08-550H**	97.50	8/689.50
2000mL	20mL	±12.0mL	520mm	**08-550J**	160.20	6/825.00

Fisherbrand® Class B Cylinders with Double Metric Scales

Calibrated "To Deliver"

- Two sets of white ceramic graduations for reading up or down
- Heavy base
- Pouring lip
- Accuracy assured even at lowest graduations; first 10% of volume at bottom is not graduated

08-555D

Capac.	Subdiv.	Tol.	Cat. No.	Each	Case of
10mL	0.2mL	±0.20mL	**08-555A**	23.35	36/659.50
25mL	0.5mL	±0.34mL	**08-555B**	31.85	36/889.50
50mL	1mL	±0.50mL	**08-555C**	27.85	36/790.50
100mL	1mL	±1.00mL	**08-555D**	32.45	36/921.00
250mL	2mL	±2.0mL	**08-555E**	50.50	18/716.00
500mL	5mL	±4.0mL	**08-555F**	66.70	12/637.00

Fisherbrand® Low-Form Cylinders with Double Metric Scales

Calibrated "To Deliver"

- Two white scales for reading up or down
- Accuracy assured even at lowest graduations
- Won't easily tip
- Two pouring lips

08-562A

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of 12
50mL	1mL	±1.5mL	145mm	**08-562A**	46.51	469.69
100mL	2mL	±1.5mL	150mm	**08-562B**	52.43	529.87

Kimble-Chase Class B Cylinders with Single Blue Metric Scale

Calibrated "To Deliver"

- Blue ceramic scale
- 10mL size has funnel-shaped top
- SafeGard™ bumpers with all except 10mL size

COMPLIANCE:
Designed from ASTM™ E 1272, Style 1, Class B requirements.

08-549G

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Price
10mL	0.2mL	±0.1mL	135mm	20025 10	**08-549B**	Pk. of 4/99.76
25mL	0.5mL	±0.3mL	140mm	20025 25	**08-549C**	Pk. of 4/140.86
50mL	1mL	±0.4mL	190mm	20025 50	**08-549D**	Pk. of 4/144.02
100mL	1mL	±0.6mL	255mm	20025 100	**08-549E**	Pk. of 4/170.14
250mL	2mL	±1.4mL	330mm	20025 250	**08-549G**	Pk. of 2/117.61
500mL	5mL	±2.6mL	375mm	20025 500	**08-549H**	Ea./83.95

Kimax™ Class B Cylinders with Single Metric Scale, Red Stripe

Calibrated "To Deliver"

- Red stain provides contrast for easy readings
- SafeGard™ bumpers with all except 10mL size
- Funnel-shaped top on 10mL size for easy filling

COMPLIANCE:
Designed from ASTM™ E 1272, Style 1, Class B requirements.

08-556E

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Price
10mL	0.1mL	±0.1mL	165mm	20024D 10	**08-556A**	Pk. of 4/126.99
25mL	0.2mL	±0.3mL	195mm	20024D 25	**08-556B**	Pk. of 4/196.25
50mL	1mL	±0.4mL	190mm	20024D 50	**08-556C**	Pk. of 4/214.20
100mL	1mL	±0.6mL	255mm	20024D 100	**08-556D**	Pk. of 4/218.28
250mL	2mL	±1.4mL	330mm	20024D 250	**08-556E**	Pk. of 2/168.10
500mL	5mL	±2.6mL	375mm	20024D 500	**08-556F**	Ea./100.06

Kimax™ Serialized Class A Cylinders with Single Metric Scale

Calibrated "To Deliver"

- Individual serial number
- Durable white scale
- SafeGard™ bumpers, with all but 10mL size
- 10mL size has enlarged funnel top for easy filling

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Each	Case of
10mL	0.1mL	±0.09mL	165mm	20026 10	**08-548A**	137.70	6/603.33
25mL	0.2mL	±0.17mL	195mm	20026 25	**08-548B**	147.80	6/647.19
50mL	1mL	±0.25mL	190mm	20026 50	**08-548C**	148.82	6/651.78
100mL	1mL	±0.40mL	255mm	20026 100	**08-548D**	165.14	6/723.18
250mL	2mL	±0.80mL	330mm	20026 250	**08-548E**	179.11	4/523.26
500mL	5mL	±1.3mL	375mm	20026 500	**08-548F**	209.61	4/612.00

INCLUDES:
Certificate of Graduation Accuracy

COMPLIANCE:
Designed from ASTM™ E 1272, Style 1, Class A requirements; Meet accuracy requirements of ASTM E 694.

08-548E

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimax™ Class B Cylinders with Single White Metric Scale

Calibrated "To Deliver"

- Durable scale
- 10 and 25mL sizes are short for stability
- 100mL size suitable for ASTM™ distillation tests when hexagonal base fits in cooling baths and does not interfere with delivery from condensers
- SafeGard™ bumpers with 25 to 2000mL sizes
- Funnel-shaped top on 10mL size for easy filling

08-549-5G

COMPLIANCE: Designed from ASTM E 1272, Style 1, Class B requirements.

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Price
10mL	0.2mL	±0.1mL	135mm	20024 10	**08-549-5B**	Pk. of 4/103.73
25mL	0.5mL	±0.3mL	140mm	20024 25	**08-549-5C**	Pk. of 4/142.19
50mL	1mL	±0.4mL	190mm	20024 50	**08-549-5D**	Pk. of 4/147.70
100mL	1mL	±0.6mL	255mm	20024 100	**08-549-5E**	Pk. of 4/176.26
250mL	2mL	±1.4mL	330mm	20024 250	**08-549-5G**	Pk. of 2/121.89
500mL	5mL	±2.6mL	375mm	20024 500	**08-549-5H**	Ea./85.30

Kimax™ Class B Cylinders with Double Metric Scales

Calibrated "To Deliver"

- Two white scales for reading up or down
- SafeGard™ bumpers with 25 through 2000mL sizes
- 10mL size has large funnel top for easy filling

08-554F

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Price
10mL	0.2mL	±0.1mL	135mm	20030 10	**08-554B**	Pk. of 4/147.29
25mL	0.5mL	±0.3mL	140mm	20030 25	**08-554C**	Pk. of 4/191.25
50mL	1mL	±0.4mL	190mm	20030 50	**08-554D**	Pk. of 4/186.66
100mL	1mL	±0.6mL	255mm	20030 100	**08-554E**	Pk. of 4/214.20
250mL	2mL	±1.4mL	330mm	20030 250	**08-554F**	Pk. of 2/166.16
500mL	5mL	±2.6mL	375mm	20030 500	**08-554G**	Ea./108.80

Kimax™ Educational-Grade Cylinders with Single Metric Scale

Calibrated "To Deliver"

- Borosilicate glass
- Durable white scale
- 10mL size has funnel-shaped top

08-549-2F

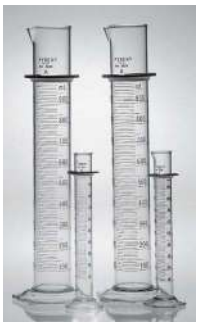
Capac.	Subdiv.	Approx. Height	Mfr. No.	Cat. No.	Price
10mL	0.2mL	135mm	20025K 10	**08-549-2B**	Pk. of 4/77.21
25mL	0.5mL	140mm	20025K 25	**08-549-2C**	Pk. of 4/87.21
50mL	1mL	190mm	20025K 50	**08-549-2D**	Pk. of 4/91.90
100mL	1mL	255mm	20025K 100	**08-549-2E**	Pk. of 4/103.33
250mL	2mL	330mm	20025K 250	**08-549-2F**	Pk. of 2/91.90
500mL	5mL	375mm	20025K 500	**08-549-2G**	Ea./60.59

Pyrex™ Brand Class A Cylinders with Double Metric Scale

Calibrated "To Deliver"

- Double scale in durable white or blue enamel
- Shock-absorbing polyethylene bumper guards

COMPLIANCE: In accordance with ASTM™ E 1272 and ASTM E 542.



08-549-11 Series

Capac.	Subdiv.	ASTM Tol.	Approx. Height	Mfr. No.	Cat. No.	Case of
White-Enamel Markings						
25mL	0.2mL	±0.17mL	192mm	3023 25	**08-549-11A**	18/472.85
50mL	1mL	±0.25mL	225mm	3023 50	**08-549-11B**	18/491.41
100mL	1mL	±0.5mL	254mm	3023 100	**08-549-11C**	12/390.96
250mL	2mL	±1.0mL	340mm	3023 250	**08-549-11D**	12/540.34
500mL	5mL	±2.0mL	390mm	3023 500	**08-549-11E**	8/503.78
Blue-Enamel Markings						
25mL	0.2mL	±0.17mL	192mm	3026 25	**08-549-11H**	18/450.97
50mL	1mL	±0.25mL	225mm	3026 50	**08-549-11I**	18/463.46
250mL	2mL	±1.0mL	340mm	3026 250	**08-549-11K**	12/509.23
500mL	5mL	±2.0mL	390mm	3026 500	**08-549-11L**	8/474.89

Kimax™ Educational-Grade Cylinders with Single Metric Scale, Removable Plastic Base

Calibrated "To Deliver"

- Borosilicate glass
- Blue ceramic enamel graduations
- Bumpers with 25 to 100mL sizes
- 10mL size has funnel-shaped top

08-549-17 Series

Capac.	Subdiv.	Approx. Height	Mfr. No.	Cat. No.	Pack of 6	Case of 4 Pack
10mL	0.2mL	132mm	20025H 10	**08-549-17A**	55.49	162.08
25mL	0.5mL	138mm	20025H 25	**08-549-17B**	60.49	176.56
50mL	1mL	185mm	20025H 50	**08-549-17C**	67.80	200.50

Pyrex™ Brand Cylinders with Single White-Enamel Metric Graduations

Calibrated "To Deliver"

- Bumper guards with 25 through 2000mL sizes
- Capacities of 5 and 10mL have funnel tops

08-552-4C

Capac.	Subdiv.	ASTM™ Tol.	Approx. Height	Mfr. No.	Cat. No.	Each
5mL	0.1mL	±0.1mL	117mm	3024 5	**08-552-4G**	38.10
10mL	0.1mL	±0.2mL	177mm	3024 10	**08-552-4H**	25.25
25mL	0.2mL	±0.3mL	192mm	3024 25	**08-552-4A**	35.65
50mL	1mL	±0.5mL	225mm	3024 50	**08-552-4B**	37.10
100mL	1mL	±1.0mL	254mm	3024 100	**08-552-4C**	43.50
250mL	2mL	±2.0mL	340mm	3024 250	**08-552-4D**	60.30
500mL	5mL	±4.0mL	390mm	3024 500	**08-552-4E**	84.20

Pyrex™ Vista™ Class A Cylinder

Calibrated "To Deliver"

- Blue enamel graduations
- Capacity is in accordance with ASTM™ E-1272
- 10mL size has a funnel top for easier filling

07-250-070

Capacity	Mfr. No.	Cat. No.	Each	Case of
10mL	70024-10	**07-250-066**	16.23	24/289.00
25mL	70024-25	**07-250-067**	22.85	18/306.00
50mL	70024-50	**07-250-068**	23.75	18/310.47
100mL	70024-100	**07-250-069**	28.35	12/253.00
250mL	70024-250	**07-250-070**	39.15	12/341.09
500mL	70024-500	**07-250-071**	54.80	8/326.00

Pyrex™ Brand Certified/ Serialized Class A Cylinders with Metric Scale

Calibrated "To Deliver"

- Individual serial number
- Easy-to-read permanent white graduations
- Bumper guards with 25 through 2000mL sizes
- 10mL size has a funnel-shaped top

INCLUDES:
Certificate of Identification and capacity traceable to standards provided by NIST™.

COMPLIANCE:
Class A tolerances in accordance with ASTM™ E 1272 and E 542.

08-553A

Capac.	Subdiv.	ASTM™ Tol.	Approx. Height	Mfr. No.	Cat. No.	Each
10mL	0.1mL	±0.10mL	178mm	3062 10	**08-553G**	111.40
25mL	0.2mL	±0.17mL	192mm	3062 25	**08-553E**	119.60
50mL	1mL	±0.25mL	225mm	3062 50	**08-553A**	119.20
100mL	1mL	±0.50mL	254mm	3062 100	**08-553B**	123.83
250mL	2mL	±1.0mL	340mm	3062 250	**08-553F**	146.30
500mL	5mL	±2.0mL	390mm	3062 500	**08-553C**	171.20

PyrexPlus™ Brand Class B Cylinders with Single Metric Scale, Protective Coating

Calibrated "To Deliver"

- PVC coating for longer life and safety
- Autoclavable to 121°C (250°F) moist heat or 110°C (230°F) dry heat
- Resistant to thermal shock
- White graduations
- Without bumper guards

ALERTS:
Do not place over direct heat or flame.

08-562-10C

Capac.	Subdiv.	ASTM™ Tol.	Approx. Height	Mfr. No.	Cat. No.	Each	Case of
100mL	1mL	±1.0mL	254mm	63024 100	**08-562-10C**	63.50	4/177.40
250mL	2mL	±2.0mL	340mm	63024 250	**08-562-10D**	87.80	4/239.79
500mL	5mL	±4.0mL	390mm	63024 500	**08-562-10E**	123.50	4/346.00
1000mL	10mL	±6.0mL	460mm	63024 1L	**08-562-10F**	169.60	4/476.50
2000mL	20mL	±12.0mL	520mm	63024 2L	**08-562-10G**	292.50	2/410.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Glass Calibrated - "To Contain"

Fisherbrand® Serialized Class A Graduated Cylinders with Certificate of Calibration

08-559E, 08-559D

Calibrated "To Contain"

- White scale

INCLUDES:
Traceability Certification and Certificates of Calibration that list apparent volumes and calibration correction factors

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each
25mL	0.5mL	±0.17mL	140mm	**08-559BC**	299.72
50mL	1mL	±0.25mL	190mm	**08-559CC**	297.41
100mL	1mL	±0.50mL	260mm	**08-559DC**	297.41
250mL	2mL	±1.0mL	330mm	**08-559EC**	348.67
500mL	5mL	±2.0mL	375mm	**08-559FC**	334.54

With Certificate of Traceability

Calibrated "To Contain"

- Serialized Class A
- With traceability
- Borosilicate glass
- White scale

INCLUDES: Certificate indicates that cylinder is individually calibrated and certified against equipment whose calibration is traceable to the National Institute of Standards and Technology (NIST™); lists the weight set used, the test number and the date of testing.

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of
10mL	0.1mL	±0.10mL	140mm	**08-559A**	97.21	6/508.48
25mL	0.5mL	±0.17mL	140mm	**08-559B**	110.57	6/578.34
50mL	1mL	±0.25mL	190mm	**08-559C**	115.10	6/602.35
100mL	1mL	±0.50mL	260mm	**08-559D**	110.85	6/580.07
250mL	2mL	±1.00mL	330mm	**08-559E**	126.34	4/440.36
500mL	5mL	±2.00mL	375mm	**08-559F**	154.43	4/520.21

Kimax™ Class A To Contain Graduated Cylinders

With bumpers and reverse metric scales

- Calibrated to contain at 20°C
- Provided with SafeGard™ bumpers (25mL and larger)
- Hexagonal bases are flat ground for added stability
- Designed from ASTM™ E1272 Style 1, Class A requirements
- Frequently used as receivers for distillation procedures

Capacity	Height	Mfr. No.	Cat. No.	Each
10mL	165mm	20027-10	**08-548-201**	161.40
25mL	200mm	20027-25	**08-548-202**	201.50
50mL	191mm	20027-50	**08-548-203**	203.50
100mL	255mm	20027-100	**08-548-204**	238.50
250mL	330mm	20027-250	**08-548-205**	217.00
500mL	375mm	20027-500	**08-548-206**	305.50
1000mL	460mm	20027-1000	**08-548-207**	108.10
2000mL	520mm	20027-2000	**08-548-208**	176.40

Kimax™ Class B Cylinders with Single Metric Scale

08-566-15D

Calibrated "To Contain"

- Demonstrate emulsion and demulsifying characteristics of oils
- Determine sedimentation values of precipitates
- Receive condensate from distillation procedures
- White scale
- Pour spout
- Hexagonal base ground flat for stability
- 10mL size has an enlarged funnel top for easy filling
- Sizes 25mL and larger have SafeGard™ bumpers

COMPLIANCE:
Designed from ASTM™ E 1272, Style 1, Class B requirements.

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Case of
10mL	0.2mL	±0.1mL	135mm	20022 10	**08-566-15A**	12/227.50
25mL	0.5mL	±0.3mL	140mm	20022 25	**08-566-15B**	1/30.40
50mL	1mL	±0.4mL	190mm	20022 50	**08-566-15C**	12/331.00
100mL	1mL	±0.6mL	255mm	20022 100	**08-566-15D**	12/446.00
250mL	2mL	±1.4mL	330mm	20022 250	**08-566-15E**	6/273.50
500mL	5mL	±2.6mL	375mm	20022 500	**08-566-15F**	4/254.50

Fisherbrand® Standard Class B Graduated Cylinders

Calibrated "To Contain"

- White-ceramic graduations
- Heavy round bases (except 2000mL size, which has molded hexagonal base)
- Handy pouring spouts
- Accuracy is assured even at the lowest graduations

COMPLIANCE:
100mL size meets ASTM™ E 133 requirements.
Used in ASTM tests D 86 and D 447.

Capac.	Subdiv.	Tol.	Approx. Height	Cat. No.	Each	Case of
10mL	0.2mL	±0.2mL	140mm	**08-557-1A**	2/49.45	12 Pk./502.00
25mL	0.5mL	±0.34mL	140mm	**08-557-1B**	30.35	18/452.50
50mL	1mL	±0.5mL	190mm	**08-557-1C**	29.00	18/411.50
100mL	1mL	±1.0mL	260mm	**08-557-1D**	33.45	12/316.00
250mL	2mL	±2.0mL	330mm	**08-557-1E**	49.65	12/504.00
500mL	5mL	±4.0mL	375mm	**08-557-1F**	63.10	8/401.50

Pyrex™ Vista™ Class A Cylinders

Calibrated "To Contain"

- Blue enamel graduations
- Capacity is in accordance with ASTM™ E-1272
- 10mL size has a funnel top for easier filling

07-250-064

Capacity	Mfr. No.	Cat. No.	Each	Case of
10mL	70022-10	**07-250-060**	17.05	24/297.45
25mL	70022-25	**07-250-061**	24.15	18/323.50
50mL	70022-50	**07-250-062**	25.00	18/326.74
100mL	70022-100	**07-250-063**	29.80	12/259.57
250mL	70022-250	**07-250-064**	41.25	12/368.00
500mL	70022-500	**07-250-065**	57.50	8/343.00

Pyrex™ Brand Economy Grade Cylinders with Double Metric Scales

Calibrated "To Contain"

- Two white scales for reading up or down
- Shorter than standard cylinders
- Without bumper guards

08-562-5C

Capac.	Subdiv.	Approx. Height	Mfr. No.	Cat. No.	Each	Case of
10mL	0.1mL	140mm	3025 10	**08-562-5H**	21.10	24/377.50
25mL	0.2mL	144mm	3025 25	**08-562-5A**	24.65	18/304.80
50mL	1mL	166mm	3025 50	**08-562-5B**	25.85	18/320.41
100mL	1mL	254mm	3025 100	**08-562-5C**	30.00	12/254.50
250mL	2mL	340mm	3025 250	**08-562-5D**	53.70	12/455.00
500mL	5mL	390mm	3025 500	**08-562-5E**	68.70	8/388.00

Pyrex™ Brand Class B Lifetime Red™ Cylinders with Single Metric Scale

Calibrated "To Contain"

- Durable white enamel scale and figures stand out against red color band
- 10mL size has funnel top
- Bumper guards with 100 through 2000mL sizes

COMPLIANCE:
100mL size complies with ASTM™ E 133 and E 1272, and is used in ASTM test D 86.

08-552-1C

Capac.	Subdiv.	ASTM Tol.	Approx. Height	Mfr. No.	Cat. No.	Each
10mL	0.1mL	±0.2mL	178mm	3042 10	**08-552-1B**	34.95
100mL	1mL	±1.0mL	254mm	3042 100	**08-552-1C**	56.00
500mL	5mL	±4.0mL	390mm	3042 500	**08-552-1E**	104.20

Pyrex™ Brand Lifetime Red™ Cylinders

Calibrated "To Contain"

- Reinforced bead near top helps prevent breakage
- White-enamel graduations on Lifetime Red background
- Bumper guards included with the 100 and 250mL sizes

COMPLIANCE:
100mL size in accordance with ASTM™ E 133 and E 1272; used in ASTM test D 86.

08-551D

Capac.	Subdiv.	ASTM Tol.	Approx. Height	Mfr. No.	Cat. No.	Each
10mL	0.1mL	±0.2mL	179mm	3046 10	**08-551A**	36.80
25mL	0.2mL	±0.3mL	205mm	3046 25	**08-551B**	51.70
50mL	1mL	±0.5mL	238mm	3046 50	**08-551C**	56.90
100mL	1mL	±1.0mL	267mm	3046 100	**08-551D**	66.30
250mL	2mL	±2.0mL	353mm	3046 250	**08-551E**	88.90

Pyrex™ Brand Cylinders with Single White-Enamel Metric Graduations

Calibrated "To Contain"

- 10mL size has funnel top
- Bumper guards with 25 through 2000mL sizes

COMPLIANCE:
100mL size meets ASTM™ E 133 and E 1272 requirements and is used in ASTM test D 86.

08-552E

Capac.	Subdiv.	ASTM Tol.	Approx. Height	Mfr. No.	Cat. No.	Each	Case of
10mL	0.1mL	±0.2mL	178mm	3022 10	**08-552B**	23.60	24/423.00
25mL	0.5mL	±0.3mL	192mm	3022 25	**08-552C**	35.75	18/443.50
50mL	1mL	±0.5mL	225mm	3022 50	**08-552D**	36.55	18/463.00
100mL	1mL	±1.0mL	254mm	3022 100	**08-552E**	43.45	12/368.50
250mL	2mL	±2.0mL	340mm	3022 250	**08-552F**	60.20	12/509.50
500mL	5mL	±4.0mL	390mm	3022 500	**08-552G**	84.00	8/474.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Pyrex™ Vista™ Economy Cylinders with Blue Graduations

Calibrated "To Contain"

- Two-piece construction
- Detachable plastic base absorbs impact and reduces breakage
- Plastic bumper guards supplied with 25 through 100mL sizes
- 10mL size has an enlarged top for easy filling

07-770-208

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Case of 12
10mL	0.1mL	±0.5mL	160mm	70075-10	**07-770-208**	89.59
25mL	0.2mL	±1.2mL	188mm	70075-25	**07-770-209**	87.30
50mL	1mL	±2.5mL	218mm	70075-50	**07-770-210**	93.10
100mL	1mL	±5.0mL	248mm	70075-100	**07-770-211**	118.68

Mixing

Fisherbrand® Class B Mixing Cylinders

Calibrated "To Contain"

- Double metric scale
- White-enamel graduations
- Ground-glass pennyhead stoppers
- First 10% of volume not graduated
- Autoclavable up to 121°C, 10- to 15-minute intervals recommended

08-565E

Capac.	Subdiv.	Tol.	Cat. No.	Each	Case of
10mL	0.2mL	±0.1mL	**08-565A**	97.31	12/805.29
25mL	0.5mL	±0.3mL	**08-565B**	134.74	12/1115.85
50mL	1mL	±0.4mL	**08-565C**	149.12	12/1234.18
100mL	1mL	±0.6mL	**08-565D**	150.86	12/1248.46
250mL	2mL	±1.4mL	**08-565E**	250.50	6/1035.00
500mL	5mL	±2.6mL	**08-565F**	290.00	6/1240.00

Kimax™ Class B Mixing Cylinders

Calibrated "To Contain"

- Single metric blue ceramic-enamel scale
- Heights shown in ordering table do not include stopper
- The 10 and 25mL sizes are short form for extra stability

REQUIRES:
Replacement stoppers (14-642-2 Series)

COMPLIANCE:
Designed from ASTM™ E 1272, Class B, Style 2 specifications; the 250mL size meets ASTM D 460 requirements; the 500mL size meets ASTM D 244 requirements.

08-566-11D

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Price
10mL	0.2mL	±0.1mL	135mm	20040 10	**08-566-11A**	Pk. of 4/144.94
25mL	0.5mL	±0.3mL	160mm	20040 25	**08-566-11B**	Pk. of 4/176.05
50mL	1mL	±0.4mL	195mm	20040 50	**08-566-11C**	Pk. of 4/223.38
100mL	1mL	±0.6mL	255mm	20040 100	**08-566-11D**	Pk. of 4/257.55
250mL	2mL	±1.4mL	330mm	20040 250	**08-566-11E**	Pk. of 2/170.95
500mL	5mL	±2.6mL	380mm	20040 500	**08-566-11F**	Ea./124.70

Kimax™ Serialized Class A Mixing Cylinders

Calibrated "To Contain"

- Permanently marked with individual serial number
- Single metric white ceramic-enamel scale
- With ⅌ stopper
- Heights shown in ordering table do not include stopper

INCLUDES:
Certificate of Graduation Accuracy

REQUIRES:
Replacement stoppers (14-642-2 Series)

08-563-1C

COMPLIANCE:
Designed from ASTM™ E 1272, Class A, Style 2 requirements; Accuracy meets ASTM E 694 requirements.

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Case of
10mL	0.1mL	±0.08mL	170mm	20036 10	**08-563-1G**	6/654.00
25mL	0.2mL	±0.14mL	215mm	20036 25	**08-563-1F**	6/709.00
50mL	1mL	±0.2mL	195mm	20036 50	**08-564-5C**	6/754.29
100mL	1mL	±0.35mL	255mm	20036 100	**08-563-1C**	6/814.00
250mL	2mL	±0.65mL	330mm	20036 250	**08-563-1E**	1/165.14
500mL	5mL	±1.10mL	380mm	20036 500	**08-564-5D**	1/218.79

Kimax™ Class B Mixing Cylinders Calibrated to Contain

Designed from ASTM™ Specification E1272, Style 2, Class B requirements; glass stopper is supplied

Scale is durable white ceramic enamel.

- 10 and 25mL sizes are comparatively short to provide increased stability
- 250mL size may be used to determine unsaponified matter in soaps and soap products (ASTM D460)
- Anhydrous salt free soda soap and fatty matter in soaps containing synthetic detergents (ASTM D820)
- 500mL size may be used in settlement tests of emulsified asphalts (ASTM D244)

08-566-22D

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
10mL (0.33 oz.)	20039-10	**08-566-22D**	4/178.70	6 Pk./178.70
25mL (0.84 oz.)	20039-25	**08-564-5B**	----	24/864.96
50mL (1.69 oz.)	20039-50	**08-566-22H**	4/247.86	6 Pk./247.86
100mL (3.38 oz.)	20039 100	**08-566-22E**	4/286.11	6 Pk./286.11
250mL (8.45 oz.)	20039-250	**08-566-22G**	2/211.14	4 Pk./211.14
2000mL (67.6 oz.)	20039-2000	**K20039-2000**	Ea./332.52	2/332.52

Capacity	10mL (0.33 oz.)	25mL (0.84 oz.)	50mL (1.69 oz.)	100mL (3.38 oz.)	250mL (8.45 oz.)	500mL (16.9 oz.)	1000mL (33.8 oz.)	2000mL (67.6 oz.)
Stopper No.	13	13	16	22	27	32	32	38
Quantity	4 Ea.	4 Ea.	4 Ea.	4 Ea.	2 Ea.	1 Ea.	1 Ea.	1 Ea.
Tolerance	±0.1mL	±0.3mL	±0.4mL	±0.6mL	±1.4mL	±2.6mL	±5.0mL	±10.0mL
Subdivisions	0.2mL	0.5mL	1mL	1mL	2mL	5mL	10mL	20mL
Height	135mm	160mm	195mm	255mm	330mm	380mm	475mm	550mm
Material	Borosilicate Glass	Borosilicate Glass	Borosilicate Glass	Borosilicate Glass	Borosilicate Glass	Borosilicate Glass	Borosilicate Glass	Borosilicate Glass
Graduated	1 to 10	3 to 25	3 to 50	5 to 100	10 to 250	25 to 500	50 to 1000	100 to 2000

Kimax™ Class B Mixing Cylinders with HDPE Stoppers

Calibrated "To Contain"

- Single white metric scale
- Heavy-duty polyethylene stopper with closed bottom end fits the $ neck
- Flange on stopper protects cylinder neck
- Heights shown in ordering table do not include stopper

REQUIRES: Replacement stoppers available (14-644-1 Series)

08-566-10D

COMPLIANCE: Designed from ASTM™ E 1272, Class B, Style 2 specifications; Meet ASTM D 460, D 820, and D 244 requirements.

Capac.	Subdiv.	Tol.	Approx. Height	Mfr. No.	Cat. No.	Price
50mL	1mL	±0.4mL	195mm	20039P 50	**08-566-10C**	Pk. of 4/268.77
100mL	1mL	±0.6mL	255mm	20039P 100	**08-566-10D**	Pk. of 4/309.57
1000mL	10mL	±5.0mL	475mm	20039P 1000	**08-566-10G**	Ea./185.30

Pyrex™ Brand Certified/ Serialized Class A Mixing Cylinders

Calibrated "To Contain"

- Individual serial number
- Single scale with white-enamel graduations
- Pyrex stopper

INCLUDES: Certificate of Identification and Capacity traceable to standards provided by NIST™.

COMPLIANCE: Meet ASTM™ E 1272 and E 542 requirements.

08-531C

Capac.	Subdiv.	ASTM Tol.	Approx. O.D. × H	Mfr. No.	Cat. No.	Each
10mL	0.1mL	±0.10mL	13 × 195mm	3002 10	**08-531A**	118.30
25mL	0.2mL	±0.17mL	18 × 225mm	3002 25	**08-531B**	127.20
50mL	1mL	±0.25mL	24 × 255mm	3002 50	**08-531C**	138.40
100mL	1mL	±0.50mL	29 × 295mm	3002 100	**08-531D**	142.90
250mL	2mL	±1.0mL	39 × 385mm	3002 250	**08-531E**	171.00
500mL	5mL	±2.0mL	50 × 445mm	3002 500	**08-531F**	226.50

Pyrex™ Brand Class B Mixing Cylinders

Calibrated "To Contain"

- Single metric scale
- White-enamel graduations

08-566D

Capac.	Subdiv.	ASTM™ Tol.	Approx. O.D. × H	Mfr. No.	Cat. No.	Each
10mL	0.1mL	±0.2mL	13 × 195mm	2982 10	**08-566A**	39.20
25mL	0.2mL	±0.3mL	18 × 225mm	2982 25	**08-566B**	50.40
50mL	1mL	±0.5mL	24 × 255mm	2982 50	**08-566C**	63.10
100mL	1mL	±1.0mL	29 × 295mm	2982 100	**08-566D**	71.80
250mL	2mL	±2.0mL	39 × 385mm	2982 250	**08-566E**	97.30
500mL	5mL	±4.0mL	50 × 445mm	2982 500	**08-566F**	147.40

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Ungraduated

Fisherbrand® Borosilicate Cylinders with Pouring Lip

Heavy-wall construction resists breakage

- Ungraduated
- Fused round base
- For use with hydrometers

08-530F

Approx. Capac.	O.D.	Approx. Height Inside	Approx. Height Outside	Cat. No.	Each	Case of
25mL	25mm	115mm	125mm	**08-530A**	19.29	24/358.50
50mL	25mm	140mm	150mm	**08-530B**	20.20	24/374.50
125mL	41mm	135mm	150mm	**08-530C**	22.45	24/416.00
175mL	41mm	185mm	200mm	**08-530E**	25.85	24/482.00
225mL	41mm	235mm	250mm	**08-530F**	31.20	36/873.00
275mL	41mm	285mm	300mm	**08-530G**	34.95	18/531.50
300mL	41mm	310mm	325mm	**08-530J**	37.25	12/378.00
350mL	41mm	360mm	375mm	**08-530K**	37.20	12/377.50
600mL	51mm	360mm	375mm	**08-530L**	46.90	12/466.50
1000mL	64mm	440mm	460mm	**09-730-32**	55.40	----
2000mL	82.5mm	500mm	520mm	**09-730-33**	118.00	----

Fisherbrand® Borosilicate Cylinders without Pouring Lip

Heavy-wall construction resists breakage

- Ungraduated
- Fused round base
- For use with hydrometers

08-535C

Approx. Capac.	O.D.	Approx. Height Inside	Approx. Height Outside	Cat. No.	Each	Case of
50mL	25mm	140mm	150mm	**08-535A**	20.90	6/103.40
125mL	41mm	135mm	150mm	**08-535B**	32.89	24/622.19
175mL	41mm	185mm	200mm	**08-535C**	29.95	24/558.50
225mL	41mm	235mm	250mm	**08-535E**	49.16	24/929.74
500mL	51mm	285mm	300mm	**08-535F**	48.95	18/745.00
620mL	51mm	360mm	375mm	**08-535G**	53.40	18/820.50

Pyrex™ Brand Heavy-Wall Cylinders

Ungraduated

- Heavy-wall construction minimizes breakage
- Hexagonal base increases stability

COMPLIANCE:
Meet ASTM™ D 287 and E 100 requirement.

08-532B

Approx. Capac.	O.D.	Approx. Height Inside	Approx. Height Outside	Mfr. No.	Cat. No.	Each	Case of
100mL	29mm	240mm	254mm	2962 100	**08-532A**	31.90	18/387.00
250mL	39mm	320mm	340mm	2962 250	**08-532B**	40.50	18/513.00
300mL	39mm	349mm	381mm	2962 300	**08-532F**	45.90	12/387.00
500mL	50mm	375mm	390mm	2962 500	**08-532C**	47.40	12/401.00

Plastic

Fisherbrand® Polymethylpentene Graduated Cylinders

Calibrated "To Contain/To Deliver" at 20°C

- Large molded-in graduations and rounded bases
- Generous pour spout; 10mL has a conical top for easier filling and pouring
- Chemical, heat and impact resistant

03-007-33

Capac.	Subdiv.	Cat. No.	Each	Case of
10mL	0.2mL	**03-007-30**	18.79	24/297.34
25mL	0.5mL	**03-007-31**	23.85	18/282.62
50mL	1mL	**03-007-32**	26.00	18/307.82
100mL	1mL	**03-007-33**	28.16	12/222.20
250mL	2mL	**03-007-34**	37.14	12/293.65
500mL	5mL	**03-007-35**	46.54	8/244.79

Fisherbrand® Polypropylene Graduated Cylinders

Calibrated "To Contain/To Deliver" at 20°C

- Contact-clear with molded-in, large graduations; rounded base
- Generous pour spout; 10mL has a conical top
- Chemical resistant; nonwetting

0300742

Capacity	Subdivisions	Cat. No.	Each	Case of
10mL	0.2mL	**0300738**	13.88	12/109.79
25mL	0.5mL	**0300739**	17.57	12/138.58
50mL	1mL	**0300740**	17.65	12/139.42
100mL	1mL	**0300741**	26.84	8/141.31
250mL	2mL	**0300742**	28.84	8/151.71
500mL	5mL	**0300743**	39.19	6/154.65

Thermo Scientific™ Nalgene™ Economy Graduated Cylinders; PMP

Calibrated "To Contain/To Deliver" at 20°C

- Translucent, break-resistant and nonwetting
- Economical and recyclable; designed for single use
- No meniscus for accurate measurements
- Good temperature resistance up to 135°C (275°F)
- Large, ribbed, rounded base provides stability

08-572-7 Series

Capac.	Subdiv.	Mfr. No.	Cat. No.	Each	Case of
10mL	0.2mL	3665-0010	**08-572-7A**	8.76	24/136.90
25mL	0.5mL	3665-0025	**08-572-7B**	10.63	18/124.40
50mL	1mL	3665-0050	**08-572-7C**	13.24	18/155.20
100mL	1mL	3665-0100	**08-572-7D**	15.94	12/124.40
250mL	2mL	3665-0250	**08-572-7E**	21.05	12/164.30
500mL	5mL	3665-0500	**08-572-7F**	29.65	8/153.90

Thermo Scientific™ Nalgene™ Economy Graduated Cylinders; PP

Calibrated "To Contain/To Deliver" at 20°C

- Cylinders are translucent, break-resistant and nonwetting at affordable prices
- Economical and recyclable; designed for single use
- No meniscus for accurate measurements
- Good temperature resistance up to 135°C (275°F)

08-572-6 Series

Capac.	Subdiv.	Mfr. No.	Cat. No.	Each	Case of
10mL	0.2mL	3664-0010	**08-572-6A**	6.26	24/97.60
25mL	0.5mL	3664-0025	**08-572-6B**	7.29	18/85.30
50mL	1mL	3664-0050	**08-572-6C**	8.78	18/103.10
100mL	1mL	3664-0100	**08-572-6D**	10.25	12/80.00
250mL	2mL	3664-0250	**08-572-6E**	13.20	12/103.10
500mL	5mL	3664-0500	**08-572-6F**	19.31	8/100.30

Vials and Accessories

Thermo Scientific™ Nalgene™ Graduated Cylinders; PMP, Blue PP Base

Calibrated "To Contain/To Deliver" at 20°C

08-572-5 Series

- No meniscus to confuse readings
- Large octagonal base prevents rolling
- Generous pour spout
- Molded-in graduations; chemical resistant
- Resist temperatures up to 135°C (275°F)
- Autoclavable (will affect accuracy)/transparent/graduated
- Front-to-back raised graduations

ORDERING INFORMATION: Individually packaged.

COMPLIANCE: Meet CFR 21, Part 177.1520 and ASTM™ E 1272 Class B accuracy requirements (except two largest sizes), as well as requirements of ISO Standard 6706.

NOTES: Suitable for food and beverage use.

Capac.	Subdiv.	Limit of Error	Mfr. No.	Cat. No.	Each	Case of
10mL	0.2mL	±0.20mL	3663-0010	**08-572-5A**	25.37	24/405.55
25mL	0.5mL	±0.34mL	3663-0025	**08-572-5B**	28.93	18/346.90
50mL	1mL	±0.50mL	3663-0050	**08-572-5C**	33.35	18/390.00
100mL	1mL	±1.00mL	3663-0100	**08-572-5D**	37.35	12/291.50
250mL	2mL	±2.00mL	3663-0250	**08-572-5E**	50.20	12/391.50
500mL	5mL	±4.00mL	3663-0500	**08-572-5F**	65.80	8/342.50

Thermo Scientific™ Nalgene™ Graduated Cylinders; PP, Blue PP Base

Calibrated "To Contain/To Deliver" at 20°C

08-572A to -572J

- No meniscus to confuse readings
- Large octagonal base prevents rolling
- Generous pour spout
- Resist temperatures up to 135°C (275°F); chemical resistant
- Autoclavable (will affect accuracy)/graduated

ORDERING INFORMATION: Individually packaged.

COMPLIANCE: Meet CFR 21, Part 177.1520 and ASTM™ E 1272 Class B requirements, as well as all requirements of ISO Standard 6706.

Capac.	Subdiv.	Tol.	Mfr. No.	Cat. No.	Each	Case of
10mL	0.2mL	±0.20mL	3662-0010	**08-572A**	25.40	24/395.50
25mL	0.5mL	±0.34mL	3662-0025	**08-572B**	28.25	18/330.50
50mL	1mL	±0.50mL	3662-0050	**08-572C**	31.40	18/367.00
100mL	1mL	±1.0mL	3662-0100	**08-572D**	35.30	12/276.00
250mL	2mL	±2.0mL	3662-0250	**08-572E**	47.75	12/372.50
500mL	5mL	±4.0mL	3662-0500	**08-572F**	62.40	8/325.00
1000mL	10mL	±6.0mL	3662-1000	**08-572G**	78.90	6/308.00
2000mL	20mL	±12.0mL	3662-2000	**08-572H**	131.30	4/341.50
4000mL	50mL	±29.0mL	3662-4000	**08-572J**	305.00	2/406.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Density

METTLER TOLEDO™ DA100M Density Meter

Benchtop, 3-place digital meter replaces manual determinations with pycnometers and hydrometers

06-717-718

- Built-in Peltier thermostat for temperature control
- Automated operation from sampling pump to computer connection for data handling
- GLP/GMP printout of date, time and measurement data

Specifications	
Accuracy	0.001g/cm³
Measurement Range	0 to 3g/cm³
Temperature Range	59° to 104°F (15° to 40°C)
Sample Volume	1mL
Measuring Time	20 sec.

Description	Mfr. No.	Cat. No.	Each
Benchtop Density Meter	51320001	**06-717-718**	8073.00

METTLER TOLEDO™ Densito™ 30PX Density Meter

Portable, handheld measuring instrument analyzes liquids for density or specific gravity

01-916-223

Results are automatically calculated into one of the following units: density, specific gravity, API degrees, Brix, % Alcohol, % H_2SO_4, °Baume,°Plato, Proof or a user defined unit.

Features

- Temperature compensation enables user to choose a temperature correction coefficient before each measurement
- Clearly visible measurement cell allows user to quickly identify potential problems such as air bubbles or impurities
- Adjustable sampling speed — slow for viscous samples to avoid the formation of air bubbles or fast for efficient cell rinsing
- External sampling allows the connection of an external syringe for use with samples of very high viscosity or samples that degas easily
- Backlit dot matrix display shows results in large digits, offering a plain language and easy-to-navigate user interface
- Saves up to 1100 results including sample identification, measurement unit, temperature correction coefficient, instrument identification, date and time
- Transfer data to a PC or printer any time using infrared interface (51325006 is required; sold seperately)

INCLUDES: PC data transfer software

Specifications	
Measurement Range	0 to 2g/cm³
Accuracy	±0.001g/cm³
Temperature Range	5 to 35°
Resolution (Temperature)	±0.1°
Display	°C or °F

Description	Mfr. No.	Cat. No.	Each
Portable Density Meter	51324450	**01-916-223**	3200.00

METTLER TOLEDO™ LiquiPhysics™ Excellence DM Digital Density Meters

Allow you to determine the density and specific gravity of a wide variety of liquids quickly and accurately

10-376-200

The DM's intuitive software will automatically convert and display your results in several predefined industrial units such as Brix, HFCS, API degrees, API gravity, alcohol concentration or any customized table you have specified.

- Oscillating U-tube is brightly illuminated via LED, providing you enhanced transparency of your sample measuring environment
- Bubble Check™ automatic error detection, single-point adjustment of the entire temperature range and viscosity correction
- Built-in algorithms reduce your wait time up to 75% while ensuring generation of reproducible results
- One Click™ shortcuts allow you to initiate your most frequent methods with a single tap of an icon on the color touchscreen
- Plug-and-play connection of accessories such as printer, barcode scanner, LogStraight™ biometric fingerprint reader and ErgoSens™ infrared sensor for hands-free operation
- Assisted sample loading and clearing are possible through the addition of FillPal™ and DryPal™ units
- Optional EQPac (Equipment Qualification Package) provides comprehensive, detailed qualification guidance (IQ/OQ/PQ) to those working in regulated environments

Expand Your Scope of Measurement

- LiquiPhysics™ allows you to add parameters such as pH, color and refractive index to your density readings
- Simply connect a compatible SevenCompact™ pH or conductivity meter, colorimeter or refractive index cell to the DM module and define the method
- Optional LabX™ LiquiPhysics Express software captures and manages all of these data points under a single platform
- LabX also fully supports your CFR 21.11 requirements, provides user management, audit trail, flexible data export options and fully customized reports

Specifications	
Measurement Range	0.00000-3.00000g/cm³
Temperature Range	0.0° to 91°C
Temperature Control	Peltier
Temperature Compensation	Yes
Display	Digital
Sample Volume	Approx. 1.0mL (minimal)
Typical Measuring Time	30 sec. (5 sec. after reaching temperature equilibrium)
Languages	German, English, French, Italian, Spanish, Chinese, Russian

Description	Accuracy	Mfr. No.	Cat. No.	Each
Model: DM40; 4 Place	0.0001g/cm³	51337000	**10-376-200**	14,128.00
Model: DM45 DeltaRange; 4.5 Place	0.00005g/cm³ (0.00002 @ 0.7-1g/cm³, 15-20°C)	51337001	**10-376-201**	15,991.00

Desiccants

Fisherbrand® Humidity Sponge Desiccants

Absorbs 16% moisture by weight

07-580

- Tyvek™ pack contains 10g sodium calcium aluminosilicate hydrate
- Maintain dry atmosphere in 2 gal. (7.6L) container
- Nontoxic, for use in direct contact with food and drugs and certified as Class M3.5 (Class 100) cleanroom compatible
- Shell is resistant to chemicals, abrasion and aging
- Disposable window type contains blue gel that turns pink when pack is exhausted
- Reusable type comes with Relative Humidity Card that changes from blue to pink when pack is exhausted; heat pack at 177°C (350°F) to regenerate

ORDERING INFORMATION:
Measures 3 × 3 × 0.25" (7.6 × 7.6 × 0.6cm).

Description	Cat. No.	Pack of 40
Disposable Window Type	**07-580**	58.70
Reusable Type	**07-580-1**	56.20

Bel-Art™ Scienceware™ Reuseable/ Disposable Desiccant Cartridges

Use anywhere dessiccation is needed, including analytical balance cases and precision laboratory instruments

08-594-14 Series

- Inert, noncorrosive and nontoxic silica gel
- Clear polystyrene dish allows instant visual inspection of silica gel, which changes color from blue to pale pink as it absorbs moisture
- Highly porous membrane covers the dish, providing excellent moisture absorption
- Desiccant can be easily regenerated by heating cartridges in a 50°C (122°F) oven overnight
- For more rapid drying, cut the membrane, transfer the spent gel crystals into a glass or porcelain dish and place in a 150°C (300°F) oven for one hour
- Individually foil sealed

ORDERING INFORMATION:
Fit Bel-Art Space Saver™ Desiccator (Cat. No. 22-261-909) and other desiccators of similar size.

Cartridge Diameter	Mfr. No.	Cat. No.	Pack of 6
65mm	F42048 0065	**08-594-14A**	69.80
100mm	F42048 0100	**08-594-14B**	85.76

Bel-Art™ Scienceware™ Reusable Desiccant Cartridges

Convenient, easy-to-handle cartridges with Natrasorb™ TI indicating silica gel beads

08-594-17 Series

- Desiccant changes color from blue when dry to pink when moist
- Saturated gel can be regenerated in a 150°C (300°F) vented oven until blue color returns
- Cartridge can be regenerated repeatedly without degradation
- Desiccant beads contained in a durable, polyester felt bag with a perforated Mylar™ cover
- Cartridges are individually sealed in moisture proof pouches ready for immediate use

ORDERING INFORMATION: Fit Bel-Art Space Saver™ desiccators in addition to other desiccators of similar size.

For Desiccator Diameter	Cartridge Diameter	Mfr. No.	Cat. No.	Each
160mm	4.5" (114mm)	F42045 0160	**08-594-17A**	40.95
200mm	7.75" (197mm)	F42045 0200	**08-594-17B**	89.90
250mm	9.375" (238mm)	F42045-0250	**08-594-17C**	149.10

Drierite™ Gas Drying Jar

Dries 200L of gas per hour to -73.3°C (-100°F) dew point

09-204

Gas is fed into system through lower serrated nipple. Moisture is absorbed as gas moves through Drierite absorbent. Dry gas is expelled through top outlet.

- Jar is made of polycarbonate
- For pressure systems up to 90psig (0.62MPa)

ORDERING INFORMATION: 2.625 dia. × 11.375"H (6.7 × 29cm).

INCLUDES: Approximately 20 oz. (567g) of Drierite absorbent that can be regenerated

Description	Mfr. No.	Cat. No.	Each	Case of 6
Gas Drying Jar	26800	**09-204**	186.30	959.50

Drierite™ Gas Purifier

Dries gases to -73.3°C (-100°F) dew point

09-206

For the removal of moisture, impurities and particulates from gas lines.

- Refillable polycarbonate column
- Safe for working pressures up to 100psig (0.69MPa)
- Both outlet and inlet have a 1/8" (1.3mm) male tube connector
- Fritted outlet assembly prevents particulates from entering instrumentation

ORDERING INFORMATION:
2.625 dia. × 11.375"H (6.66 × 28.89cm).

INCLUDES: 15 cu. in. (250cm^3) each of indicating Drierite absorbent and 5A molecular sieves that can be regenerated

Description	Mfr. No.	Cat. No.	Each	Case of 6
Gas Purifier	27068	**09-206**	228.50	1192.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Before You Buy **Desiccators**

Desiccators provide low humidity storage for moisture-sensitive items such as reagents or electronics.

When selecting a desiccator consider the following factors:

- Size/shape of desiccator
- Frequency of accessing stored items
- Maintenance requirements of the desiccant
- De-gassing needs (vacuum desiccators)

Choosing a Desiccator That's Right for You

The following guide highlights the four types of desiccators to help you select a model for your specific needs.

I. Automatic Desiccators

Benefits: Efficiency, reliability and convenience.
Integral system of fans and heaters continually regenerates the desiccant to automatically maintain a low humidity environment. Automatic Secador® desiccators are available in a wide range of sizes, colors, and shelving options. (See Pages 469–471)

Considerations: *Access to electrical outlets*

II. Standard Desiccators

Benefits: Cost efficient; Choose from a variety of desiccants; Often portable.
Moisture is absorbed by a specific desiccant selected by the user based on economics and convenience. Available in round (SpaceSaver) or cabinet (Secador®) models in a wide range of sizes, colors, and shelving options. (See Page 469)

Considerations: *Desiccant (purchased separately) requires recharging and frequent monitoring*

III. Vacuum Desiccators

Benefits: Produces very low humidity levels; Low particulates for cleanroom applications.
Negative pressure quickly removes moisture-laden air to produce the low humidity environment. Available in round (SpaceSaver) and cabinet (Lab Companion) models in a wide range of sizes, colors, and shelving options. (See Page 468)

Considerations: *Requires vacuum source; need to restore vacuum after accessing*

IV. Gas Purge Desiccators

Benefits: Quick regeneration of low humidity environment; Low particulates for cleanroom applications.
A steady inflow of dry, inert gas provides the low humidity storage environment. Available in round (Techni-Dome®) or cabinet (Dry-Keeper) models in a wide range of sizes, colors, and shelving options. (See Pages 469, 472)

Considerations: *Requires specialty gas, equipment for regulating flow rates, and monitoring gas inventory*

Desiccators

Nonvacuum

Fisherbrand® Desiccator with Porcelain Plate

Desiccant-holding chamber has straight sides

- Sample plate has 5mm center hole, glaze on one side, and no feet
- Similar to 08-595 Series

INCLUDES:
Cover and porcelain plate (08-641 Series)

I.D.	Cat. No.	Each
200mm	**08-615A**	295.50
250mm	**08-615B**	349.00

08-615 Series

Vacuum

Fisher Scientific™ Circular Bottom Desi-Vac™ Container Desiccators with Vacuum Pump

Desiccator with built-in manual vacuum pump eliminates need for separate pump, tubing and stopcock

- Ideal for drying, preserving, storing and shipping samples
- Self-contained unit holds a vacuum of 14.7"Hg (373mm) in excess of 24 hours
- Rubber O-ring in cover ensures a tight seal
- To remove cover, simply push release button to allow air into container
- Clear polycarbonate body, metal pump handle, chemical-resistant ABS plastic pump and cover
- No plate required

ORDERING INFORMATION:
Available in volumes of 600, 850 or 1100mL. Can be used with Fisherbrand™ Humidity Sponge™ Desiccant.

ALERTS:
Do not autoclave or expose container to organic solvents or their vapors. Do not use concentrated acids as desiccants.

08-664-5A, 08-664-5B, 08-664-5C

Volume	Outside Dia. × H	Mfr. No.	Cat. No.	Each
600mL	4.125 × 3.75"	3160	**08-664-5A**	41.00
850mL	4.125 × 5"	3161	**08-664-5B**	46.05
1100mL	4.125 × 6"	3162	**08-664-5C**	51.00

Corning™ Pyrex™ Brand 24/29 Standard Taper Stopcock Vacuum-Rated Glass Desiccators, Complete (Bowl and Cover)

Desiccators have a rugged 24/29 standard taper stopcock with a tooled hose connection that serves as the vacuum inlet; It is Designed so that its manipulation is not affected by the vacuum

- Tubulation O.D. approx. 10mm
- Borosilicate glass 7740
- Design eliminates need for grease

ORDERING INFORMATION:
Replacement bowls and covers available separately. See Corning Pyrex Brand Desiccator Replacement Covers and Corning Pyrex Brand Desiccator Replacement Bowls. For replacement standard taper stopcock, see Cat. No. 08-624-426.

INCLUDES:
Cover, bowl and stopcock

ALERTS:
Do not heat or subject to pressure. Rated to 1-atmosphere vacuum.

08-624-420

Description	Approx. Chamber Depth (mm)	Approx. Height (mm)	Approx. I.D. of Ground Flange (mm)	Recommended Plate Dia. (mm)	Mfr. No.	Cat. No.	Each
2.4L Small	81	239	172	140	3121-150	**08-624-420**	372.50
5.8L Large	115	296	223.5	190	3121-200	**08-624-422**	788.00
10.5L Large	120	344	237.5	230	3121-250	**08-624-424**	760.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Bel-Art™ Scienceware™ Space Saver™ Vacuum Desiccators

De-gas liquids quickly and easily in the laboratory or classroom with these small plastic vacuum desiccators

- Strong, shatterproof units provide dry storage and protection for sensitive products
- Lighter and less costly than similarly sized glass models; do not chip like glass
- Hold a full vacuum (29.9" Hg) at room temperature for 24 hours
- Tapered polypropylene stopcock with PTFE plug accepts tubing with 0.25"to 0.375" I.D. and allows a controlled entrance of air, preventing unnecessary turbulence
- Neoprene O-ring assures a tight seal down to 0°C without the need for grease (ring will not be harmed if grease is used)
- "Flat Dome" clear polycarbonate top with large ribbed knob maximizes interior clearances and provides an average of 13% greater interior volume over standard hemispherical domes
- All models include a 0.125" (0.32cm) thick perforated plate; disposable or reusable desiccant can be placed on or under this plate
- Models with white polypropylene bottoms can support incandescent crucibles on Minerit HD High Heat Ceramic Desiccator Plates (available separately, F42038 series, Cat. No. 03421139, 03421140, 03421141)
- Models with clear polycarbonate bottoms offer increased visibility from more angles

INCLUDES:
Upper and lower sections, neoprene O-ring, stopcock, polypropylene sample plate

08-594-16C (Rack not included)

Height	Flange O.D.	For Plate	Mfr. No.	Cat. No.	Each
White polypropylene bottom					
206mm	171mm	140mm	F42010 0000	**08-594-15A**	107.00
260mm	230mm	190mm	F42020 0000	**08-594-15B**	139.80
311mm	273mm	230mm	F42025 0000	**08-594-15C**	185.80
Clear polycarbonate bottom					
206mm	171mm	140mm	F42012 0000	**08-594-16A**	94.30
260mm	230mm	190mm	F42022 0000	**08-594-16B**	121.70
311mm	273mm	230mm	F42027 0000	**08-594-16C**	161.00

Bel-Art™ Scienceware™ Secador™ Techni-Dome™ Vacuum Desiccator

Domed desiccator provides a roomy interior for large, moisture-sensitive materials as well as portability and ease of use

- Spherical shape accommodates racks, trays, instruments and items up to 18" (46cm) tall, 20" (51cm) wide
- Tapered stopcock accepts 0.25 to 0.375" I.D. tubing and has an easy turning PTFE valve which allows for the gentle entrance of air and minimal disturbance to the inside chamber and its contents
- Use to de-gas liquids, porous solids or silicon molds to eliminate air bubbles
- Spacious 4000 cu. in. (65L) internal volume can hold items up to 18" (45cm) tall or wide, including racks, trays and instruments
- Holds a full vacuum (29" Hg) at room temperature for 24 hours
- Laboratory-grade polycarbonate provides a clear, unobstructed view of contents; resistant to most common chemicals and thermal stress
- Side handles provide easy portability and can be used to affix a lock or tamper-evident seals
- Gas ports can be closed to use desiccator with standard desiccant cartridges

INCLUDES:
Two removable polypropylene shelves, 14.5" (36.5cm) and 9" (22.5cm)

01-817-50

Capacity	Mfr. No.	Cat. No.	Each
4000 cu. in.	F42029 0000	**01-817-50**	430.50

Cabinets

Fisherbrand® Stainless-Steel Desiccator Cabinets

Manual relief valve lets you equalize chamber pressure before opening door

Key Features

- Polished stainless steel with 0.187" thick (4.8mm) glass
- Airtight door with neoprene gasket, full-height hinges and double-action bar locks
- Fixed wire shelf brackets every 0.5" (13mm)

Standard Size

- Glass on door and sides
- Tray holds 454g of desiccant
- Weighs 23 lb. (10kg)

Large Size

- Glass on door and back, stainless-steel sides
- Shelf dimensions: 13.375 × 18" (34 × 46cm)
- Weighs 57 lb. (26kg)

INCLUDES: Two stainless-steel shelves, desiccant tray

086456

Cabinet Size	Outside L × W × H	Cat. No.	Each
Standard	12.25 × 12.5 × 12.25" (31 × 32 × 31cm)	**086456**	1751.00
Large	22.25 × 16.5 × 23" (56.5 × 42 × 58cm)	**0864511**	3400.00

Bel-Art™ Scienceware™ Grande Desiccators

Designed for industrial or other applications where an extra-large, low humidity, dust-free environment is needed for storing large items or many small ones

- Sides and top panels made of Eastman's Tritan™ co-polyester
- Rear panel and door made of clear polycarbonate for total visibility and ruggedness
- Pull-out, perforated, removable acrylic shelves: Units include two shelves but can accommodate seven
- Removable shelves allow reconfiguration for optimal use of interior space, easy access to contents and maximized air circulation
- The useable internal space (between the shelf support rails) is 18.5 × 20 × 17" and the internal capacity is 3.6 cu. ft.

03-410-602

Standard Model

- Desiccant (sold separately) can be placed below bottom shelf
- Compatible with Scienceware Desiccant in a Cartridge (Mfr. No. F42045-0250, Cat. No. 08-594-17C)

Gas Purge Model

- Includes two gas port fittings with stopcock valves located on back panel for choice of dry gas as desiccant

Description	Mfr. No.	Cat. No.	Each
Grande Desiccator, Standard	F43000-1010	**03-410-602**	2050.00
Grande Desiccator, Gas Purge	F43010-1010	**03-410-603**	2065.27
Shelf Set for Grande Desiccators, Pack of 2	F43000-0001	**03-410-601**	84.73

Bel-Art™ Scienceware™ Secador™ Standard Desiccator Cabinets

A UV light-blocking, dry environment

The attractive design and sturdy construction of the Secador line of desiccator cabinets assures easy and reliable storage of moisture and light sensitive products.

- Durastar™ co-polyester construction blocks 99% of UV light and resists staining, crazing and chemical attack
- Amber color models reduce visible light penetration by over 50%, making them outstanding choices for storing light sensitive materials like reagents, analytical standards and investigational compounds
- Large doors maximize access to interior space and have a patented seal design, tab latches and security loops for a padlock or tamper-evident seals
- Perforated shelves facilitate circulation of dry air; space for desiccant under bottom shelf
- Easy-to-view hygrometer is located in the door front
- Models 1.0, 2.0, 3.0 and 4.0 are vertical units and feature a compact 16.3L × 13.4"W footprint for space-saving stacking up to three units high and side-swinging door that opens to the left; 4.0 horizontal has a wider footprint, lower height and pull down "oven style" door

08-647 Series

Dimensions

- Secador 1.0: 0.74 cu. ft. internal volume, 16.3L × 13.4W × 8.4"H
- Secador 2.0: 1.16 cu. ft. internal volume, 16.3L × 13.4W × 12.4"H
- Secador 3.0: 1.55 cu. ft. internal volume, 16.3L × 13.4W × 16.4"H
- Secador 4.0: 1.87 cu. ft. internal volume, 16.3L × 13.4W × 20.4"H

ORDERING INFORMATION:
Replacement shelves are available: Replacement Shelf for Horizontal 4.0 Cabinets, Mfr. No. 420740001 or Replacement Shelf for Vertical 1.0, 2.0, 3.0 or 4.0 Cabinets, Mfr. No. 420741001, Cat. No. 01-816-18. Use with desiccant cartridges Mfr. Nos. 420450250, Cat No. 08-594-17C, 420450200, Cat No. 08-594-17B, 420480100, Cat No. 08-594-14B.

Description	Model	No. of Shelves	Mfr. No.	Cat. No.	Each
Vertical Models					
Clear	1.0	1 (fixed)	F42071 0000	**08-647-50**	283.00
Clear with Blue End Caps	1.0	1 (fixed)	F42071 0006	**08-647-51**	283.00
Amber	1.0	1 (fixed)	F420710008	**08-647-850**	311.00
Clear	2.0	2	F420721000	**08-647-658**	545.50
Amber	2.0	2	F420721008	**08-647-851**	577.50
Clear	3.0	3	F420731000	**08-647-657**	660.50
Amber	3.0	3	F420731008	**08-647-854**	723.00
Clear	4.0	3	F420741000	**08-647-54**	932.50
Clear with Blue End Caps	4.0	3	F420741006	**08-647-55**	932.50
Blue with Clear Door	4.0	3	F420741007	**08-647-676**	954.00
Amber	4.0	3	F420741008	**08-647-857**	990.00
Horizontal Models					
Clear	4.0	2	F420740000	**08-647-58**	932.50
Clear with Blue End Caps	4.0	2	F420740006	**08-647-59**	932.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Bel-Art™ Scienceware™ Secador™ Auto Desiccator Cabinets

A UV light blocking, dry environment with automatic electronic dehumidification

The attractive design and sturdy construction of the Secador line of desiccator cabinets assures easy and reliable storage of moisture and light sensitive products.

08-647 Series

- Patented electronic dehumidification system reduces humidity and circulates dry air automatically, freeing users from monitoring and changing desiccants
- Durastar™ co-polyester construction blocks 99% of UV light and resists staining, crazing and chemical attack
- Amber color models reduce visible light penetration by over 50% for storing light sensitive materials like reagents, analytical standards and investigational compounds
- Large doors with easy-to-view dial hygrometer maximize access to interior space and have a patented seal design, tab latches and security loops for a padlock or tamper-evident seals
- Perforated shelves facilitate circulation of dry air; space for desiccant under bottom shelf
- Models 1.0, 2.0, 3.0 and 4.0 vertical units have a compact 16.3L × 13.4"W footprint for space-saving stacking up to 3 units high and side swinging door that opens to the left; 4.0 horizontal has a wider footprint, lower height and pull down "oven style" door
- 4.0 units can be converted from vertical to horizontal configuration or vice versa by turning the unit and ordering the appropriate number of shelves (see Ordering Info)

Dimensions

- Secador 2.0: 1.16 cu. ft. internal volume, 16.3L × 13.4W × 12.4"H
- Secador 3.0: 1.55 cu. ft. internal volume, 16.3L × 13.4W × 16.4"H
- Secador 4.0: 1.87 cu. ft. internal volume, 16.3L × 13.4W × 20.4"H

ORDERING INFORMATION:

Replacement shelves are available: Replacement Shelf for Horizontal 4.0 Cabinets, Mfr. No. 420740001, Cat No. 01-816-18, or Replacement Shelf for Vertical 1.0, 2.0, 3.0 or 4.0 Cabinets, Mfr. No. 420741001, Cat No. 01-816-19.

Color	Voltage	Model	No. of Shelves	Mfr. No.	Cat. No.	Each
Vertical Models						
Clear	100V	2.0	2	F420721100	**08-647-664**	962.97
Clear	120V	2.0	2	F420721115	**08-647-656**	884.50
Amber	120V	2.0	2	420721118	**08647852**	912.00
Clear	230V	2.0	2	F420721220	**08-647-665**	962.97
Amber	230V	2.0	2	F420721228	**08-647-853**	949.13
Clear	100V	3.0	3	F420731100	**08-647-667**	1099.46
Clear	120V	3.0	3	F420731115	**08-647-655**	1078.00
Amber	120V	3.0	3	420731118	**08647855**	1101.00
Clear	230V	3.0	3	F420731220	**08-647-668**	1142.35
Amber	230V	3.0	3	F420731228	**08-647-856**	1092.00
Clear	100V	4.0	3	F420741100	**08-647-677**	1388.85
Clear with Blue End Caps	100V	4.0	3	F420741106	**08-647-678**	1388.85
Clear	120V	4.0	3	F420741115	**08-647-52**	1319.00
Clear with Blue End Caps	120V	4.0	3	F420741116	**08-647-53**	1319.00
Blue with Clear Door	120V	4.0	3	F420741117	**08-647-679**	1360.00
Amber	120V	4.0	3	420741118	**08647858**	1389.00
Clear	230V	4.0	3	F420741220	**08-647-680**	1451.00
Clear with Blue End Caps	230V	4.0	3	F420741226	**08-647-681**	1388.85
Blue with Clear Door	230V	4.0	3	F420741227	**08-647-682**	1409.00
Amber	230V	4.0	3	F420741228	**08-647-859**	1365.00
Horizontal Models						
Clear	100V	4.0	2	F420740100	**08-647-670**	1388.85
Clear with Blue End Caps	100V	4.0	2	F420740106	**08-647-671**	1388.85
Clear	120V	4.0	2	F420740115	**08-647-56**	1300.48
Clear with Blue End Caps	120V	4.0	2	F420740116	**08-647-57**	1319.00
Blue with Clear Door	120V	4.0	2	F420740117	**08-647-672**	1302.01
Clear	230V	4.0	2	F420740220	**08-647-673**	1388.85
Clear with Blue End Caps	230V	4.0	2	F420740226	**08-647-674**	1388.85
Blue with Clear Door	230V	4.0	2	F420740227	**08-647-675**	1409.00

Bel-Art™ Scienceware™ Dry-Keeper™ Desiccator Cabinets

Clear, durable PVC desiccator cabinets have black ABS accents and movable shelves for adjusting dry storage space configuration for moisture-sensitive materials

- Generous 2 cu. ft. interior volume
- Adjustable, removable and perforated shelves facilitate full circulation of air; additional shelves and rails sold separately
- Large, in-door dial hygrometer for easy visualization of RH%
- Gasketed door closes with two latches for a tight seal
- Standard cabinets include desiccant tray (desiccant sold separately)

08-647-24

Horizontal Cabinets

- Include two shelves
- Shelf rails can be repositioned on any one of eight steps set at 1.1" (28mm) intervals
- Interior opening measures 17.75 × 9" (45 × 23cm)

Vertical Cabinets

- Include three shelves
- Shelf rails can be repositioned on any one of 15 steps set at 1.1" (28mm) intervals
- Interior opening measures 10 × 17" (25 × 43cm)

Autodesiccators

- 120VAC electronic dehumidification system maintains relative humidity levels at 12 to 22%†; keeps dry air circulating throughout the cabinet
- Permanent desiccant contained in the control unit
- Red light indicates operation of the 4.5 hour absorption period; green light indicates operation of the 0.5 hour regeneration of the desiccant

Cabinet	L × W × H	Mfr. No.	Cat. No.	Each
Horizontal Cabinet				
Standard	19.63 × 15.5 × 13.5" (50 × 39 × 34.5cm))	H42058 0001	**08-647-28**	1411.00
With Autodesiccator	24.25 × 15.5 × 13.5" (61.6 × 39.4 × 34.5cm)	H42058 0003	**08-647-30**	1811.00
Vertical Cabinet				
Standard	15.5 × 12.25 × 20" (39 × 31 × 51cm)	H42056 0001	**08-647-24**	1151.72
With Autodesiccator	12.5 × 15.5 × 24.5" (31.8 × 39.4 × 61.6cm)	H42056 1003	**08-647-26**	1843.57

†Cabinet interior RH% levels can differ depending upon room temperature, room RH% and usage conditions

Bel-Art™ Scienceware™ Dry-Keeper™ Stackable Desiccator Cabinets

Stackable compact cabinet desiccators

- High-impact polystyrene storage cabinets protect contents from humidity
- Pull-down door slides into lower compartment underneath the cabinet
- May be stacked five high for maximum use of dry storage space

08-647-20

Small Stackable Desiccator Cabinet

- Transparent for easy viewing of contents
- Ready-to-use jar of desiccant silica gel included
- Door secures closed with two roller latches
- Interior volume: 0.14 cu. ft.
- Dimensions (L × W × H): 8.25 × 8.88 × 6.75" (21 × 22 × 17cm)

Medium Stackable Desiccator Cabinet

- Smoke-tint helps protect light sensitive contents
- Two adjustable perforated shelves can be set at four heights
- Includes small desiccant tray and desiccant
- Door secures closed with roller latch
- Interior volume: 0.35 cu. ft.
- Dimensions (L × W × H): 10 × 10 × 10" (25 × 25 × 25cm)

Cabinet Size	Mfr. No.	Cat. No.	Each
Small	H42053 0000	**08-647-20**	247.50
Medium	H42053 0001	**08-647-22**	523.50

ON THE WEB...

For additional Desiccator Cabinets...

Visit www.fishersci.com and search for Dessicator Cabinets

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Dialysis

Devices

Thermo Scientific™ Pierce™ RED Device for Rapid Equilibrium Dialysis

A transforming technology for plasma protein-binding assays

The RED Device is an apparatus for performing equilibrium dialysis experiments in a high throughput, automation-compatible format. The device consists of disposable inserts and a base plate formatted to a standard microplate footprint.

Each single-use, disposable insert is made of two side-by-side chambers separated by a vertical cylinder of dialysis membrane (8K MWCO) validated for minimal nonspecific binding. This format requires no extensive assembly steps or specialized equipment, and each chamber or well is easily accessible from the top of the insert after insertion in the base plate. Additionally, the high surface-to-volume ratio of the membrane compartment allows rapid dialysis, where equilibrium can be reached in four hours with high levels of reproducibility and accuracy. In many cases, experiments can be completed in less than 100 minutes.

RED Device Inserts are designed to be used with either the reusable PTFE or disposable high-density polypropylene base plates. Each RED Device Base Plate holds up to 48 RED Device Inserts and has a standard 96-well plate footprint with 9mm × 9mm well spacing to provide compatibility with automated liquid handling systems. In addition, the disposable RED Device Base Plates are available pre-loaded, providing operation convenience for scientists conducting protein-binding applications. No preconditioning of the membrane inserts is needed. When using radioactive materials, this single-use plate is easily disposed of to avoid contamination and cleaning. RED Device Inserts and Base Plates are also available separately.

Highlights:

- Easy and ready to use – disposable tubes require no presoaking, assembly or specialized equipment
- Designed for speed – the high surface-to-volume ratio of the insert design enables equilibrium to be reached in as few as 100 minutes with vigorous agitation or in three to four hours with 200rpm agitation
- Automation compatible – designed on a standard 96-well plate template suitable for automated liquid handlers
- Flexible and scalable – perform any number of assays (1 to 48 assays per plate) without wasting the entire plate
- Robust – compartmentalized design eliminates potential for cross talk or leakage
- Reproducible and accurate – validated for plasma binding assays, producing results consistent with those reported in literature
- Quality-tested – each lot of inserts is functionally tested in a protein-binding assay for guaranteed performance

Pierce RED Device Single-Use Plate with Inserts, 8K MWCO

Insert Features:

- Disposable – require no presoaking, assembly or specialized equipment
- Short incubation time – large dialysis surface area accelerates equilibrium
- 8K MWCO membrane – ideal molecular-weight cutoff for protein-drug binding studies
- Membrane composition – regenerated cellulose with low glycerol content as a humectant

Base Plate Features:

- Microplate footprint – compatible with automated systems for 96-well plates
- Compartmentalized – eliminates potential for crosstalk or leakage
- PTFE construction – eliminates nonspecific binding and risk of contamination
- Accepts 1 to 48 inserts – run exactly the number of assays needed without waste

Item Name	Quantity	Sufficient For	Formulation	Cat No.	Each
Pierce RED Device Inserts	50 inserts	50 equilibrium dialysis experiments with a RED Base Plate (sold separately)	Plastic with regenerated cellulose membrane, 8K MWCO	**PI-89809**	416.85
Pierce RED Device Inserts	250 inserts	250 equilibrium dialysis experiments with a RED Base Plate (sold separately)	Plastic with regenerated cellulose membrane, 8K MWCO	**PI-89810**	1777.68
Pierce RED Device Reusable Base Plate	1 plate	Unlimited (reusable) 48-well experiments with RED Inserts (sold separately)	High-grade PTFE	**PI-89811**	392.70
Pierce RED Device Single-Use Plate with Inserts, 8K MWCO	10-plate set	10 × 48 experiments	High-density polypropylene plate with RED Device Inserts	**PI99006**	3217.75
Pierce RED Device Single-Use Plate with Inserts, 12K MWCO	1-plate set	1 × 48 experiments	High-density polypropylene plate with RED Device Inserts	**PI90112**	422.10
Pierce RED Device Single-Use Plate with Inserts, 12K MWCO	10-plate set	10 × 48 experiments	High-density polypropylene plate with RED Device Inserts	**PI91012**	3177.30
Pierce RED Device Single-Use Plate with Inserts, 25K MWCO	1-plate set	1 × 48 experiments	High-density polypropylene plate with RED Device Inserts	**PI90125**	434.76

Thermo Scientific™ Slide-A-Lyzer™ Dialysis Cassettes, 10K MWCO

Faster and simpler than dialysis tubing with better sample recovery

Available in four different cassette sizes to accommodate sample volumes between 0.1 and 30mL, these devices are easier to use than traditional dialysis tubing, providing both faster buffer exchange and more complete sample recovery. Can be used for a wide range of applications including low molecular-weight contaminant removal, buffer exchange, desalting, equilibrium dialysis and sample concentration.

Cassettes are constructed from two sheets of low-binding, regenerated-cellulose dialysis membrane that are hermetically sealed on either side of a silicone-like gasket inside an inert plastic frame. The membrane and cassette materials are compatible with most common laboratory chemicals and buffers. Liquid samples are easily added and removed by penetrating the self-sealing gasket with a hypodermic needle attached to a syringe.

- Fast dialysis — flat cassette chamber with two membranes provides high surface-area to volume ratio that maximizes diffusion rate compared to cylindrical dialysis tubing
- High recovery — rectangular cassette design maximizes recovery of entire sample volume via any one of the four corner injection ports
- Color-coded — orange cassette frame specifies cassettes with the 10,000MW pore size membrane

Specifications

- Composition: Regenerated cellulose synthesized by the Viscose method; 21% glycerol, 0.05% sulfur, Trace heavy metals content
- Thickness: 0.9 to 1.2mil (22.5 to 30µm)
- Hydration Required Before Use: 30 seconds for small-volume samples

Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 3mL

Item-Specific Features:

- 30mL cassette has built-in air chamber for flotation

INCLUDES:
Kits contain cassettes plus an equal number of syringes with 18-gauge needles and single-cassette float buoys.

Item Name	Quantity	Sufficient For	Kit Contents	Cat. No.	Each
Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 0.5mL	10 cassettes	10 samples, each 0.1 to 0.5mL	----	**PI-66383**	92.84
Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 0.5mL	5 × 10 cassettes	50 samples, each 0.1 to 0.5mL	----	**PI-66384**	439.94
Slide-A-Lyzer Dialysis Cassette Kit, 10K MWCO, 0.5mL	10-cassette kit	10 samples, each 0.1 to 0.5mL	Dialysis Cassettes, 10 cassettes Syringes, 1mL, 10 syringes Needles, 18-gauge, 10 needles Single-cassette Float Buoys, 10 buoys	**PI-66385**	115.00
Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 3mL	10 cassettes	10 samples, each 0.5 to 3mL	----	**PI-66380**	92.84
Slide-A-Lyzer Dialysis Cassette Kit, 10K MWCO, 3mL	10-cassette kit	10 samples, each 0.5 to 3mL	Dialysis Cassettes, 10 cassettes Syringes, 5mL, 10 syringes Needles, 18-gauge, 10 needles Single-cassette Float Buoys, 10 buoys	**PI-66382**	131.88
Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 12mL	8 cassettes	8 samples, each 3 to 12mL	----	**PI-66810**	121.33
Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 12mL	5 × 8 cassettes	40 samples, each 3 to 12mL	----	**PI-66811**	559.15
Slide-A-Lyzer Dialysis Cassette Kit, 10K MWCO, 12mL	8-cassette kit	8 samples, each 3 to 12mL	Dialysis Cassettes, 8 cassettes Syringes, 20mL, 8 syringes Needles, 18-gauge, 8 needles Single-cassette Float Buoys, 8 buoys	**PI-66807**	149.81
Slide-A-Lyzer Dialysis Cassettes, 10K MWCO, 30mL	6 cassettes	6 samples, each 12 to 30mL	----	**PI-66830**	98.12
Slide-A-Lyzer Dialysis Cassettes, gamma-irradiated, 10K MWCO, 3mL	10 cassettes	10 samples, each 0.5 to 3mL	----	**PI-66455**	138.21
Slide-A-Lyzer Dialysis Cassettes, gamma-irradiated, 10K MWCO, 12mL	8 cassettes	8 samples, each 3 to 12mL	----	**PI-66453**	128.71
Slide-A-Lyzer Dialysis Cassettes, gamma-irradiated, 10K MWCO, 30mL	6 cassettes	6 samples, each 12 to 30mL	----	**PI-66456**	102.34

[1] Extra-strength membrane
Thermo Scientific Slide-A-Lyzer Dialysis Cassettes are also available in 2K, 3.5K, 7K, and 20K MWCO.
Thermo Scientific Slide-A-Lyzer Dialysis Kits contain cassettes, buoys, syringes, and 18-gauge needles.
Thermo Scientific Slide-A-Lyzer Dialysis cassette Accessories (buous and needles) are also available.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Slide-A-Lyzer™ G2 Dialysis Cassettes

These second generation (G2) Slide-A-Lyzer Dialysis Cassettes are free-standing, self-floating and pipet-loadable units for dialysis. The single-use, disposable cassettes are available in five different sizes to accommodate samples between 0.1 and 70mL. They offer maximum efficiency, convenience and sample protection in one package. Sample loading and removal are easily accomplished by using a serological pipet or hypodermic needle (optional) attached to a syringe. The built-in air chamber provides sample buoyancy and vertical orientation of the cassette during dialysis.

- Easy-loading — pipet-accessible for easy sample loading and retrieval
- Self-floating — integrated air chambers eliminate the need for float buoys
- Sturdy construction — ensures the highest possible sample integrity and protection
- Superior design — thoroughly researched and tested to provide fast and consistent dialysis with maximum sample recovery
- Multiple sizes — five cassette capacities to optimally match 0.1 to 70mL sample volumes
- Versatile — ideal for removing low molecular-weight contaminants, performing buffer exchange and desalting

PI-87000 series

2K MWCO

Capacity	Quantity	Mfr. No.	Cat. No.	Each
0.5mL	10 cassettes	87717	**PI87717**	102.34
3mL	10 cassettes	87718	**PI87718**	102.34
15mL	8 cassettes	87719	**PI87719**	130.82
30mL	6 cassettes	87720	**PI87720**	104.45
70mL	6 cassettes	87721	**PI87721**	162.47

3.5K MWCO

Capacity	Quantity	Mfr. No.	Cat. No.	Each
0.5mL	10 cassettes	87722	**PI87722**	102.34
3mL	10 cassettes	87723	**PI87723**	102.34
15mL	8 cassettes	87724	**PI87724**	130.82
30mL	6 cassettes	87725	**PI87725**	104.45
70mL	6 cassettes	87726	**PI87726**	162.47

7K MWCO

Capacity	Quantity	Mfr. No.	Cat. No.	Each
0.5mL	10 cassettes	87727	**PI87727**	102.34
3mL	10 cassettes	87728	**PI87728**	102.34

10K MWCO

Capacity	Quantity	Mfr. No.	Cat. No.	Each
0.5mL	10 cassettes	87729	**PI87729**	102.34
3mL	10 cassettes	87730	**PI87730**	102.34
15mL	8 cassettes	87731	**PI87731**	130.82
30mL	6 cassettes	87732	**PI87732**	104.45
70mL	6 cassettes	87733	**PI87733**	162.47

20K MWCO

Capacity	Quantity	Mfr. No.	Cat. No.	Each
0.5mL	10 cassettes	87734	**PI87734**	102.34
3mL	10 cassettes	87735	**PI87735**	102.34
15mL	8 cassettes	87736	**PI87736**	130.82
30mL	6 cassettes	87737	**PI87737**	104.45
70mL	6 cassettes	87738	**PI87738**	162.47

Thermo Scientific™ Slide-A-Lyzer™ MINI Dialysis Units

Designed for dialyzing and recovering extremely small sample volumes

PI-69588

Units are patented disposable cups with integrated dialysis membranes for effective dialysis of small sample volumes (10 to 100µL). Unlike other small separation devices, there is no need for a microcentrifuge, syringe adapters or laborious steps to manipulate the sample. The regenerated cellulose membrane is compatible with a number of common chemicals and buffers.

Dialysis with an individual unit can be done by placing it in a standard microcentrifuge tube containing the dialysate. Multiple units can be done against a large volume of buffer by using the 25-position, reusable float placed in a beaker. Available as economical package sizes and convenient kits in five molecular-weight cutoffs (MWCO): 2K, 3.5K, 7K, 10K and 20K.

- Achieve complete desalting of small-volume samples of nucleic acids and proteins in less than 15 minutes
- Low-binding polypropylene tube and small membrane surface ensure minimal sample loss compared to filtration and resin systems; achieve greater than 95% sample recovery for 10 to 100 microliter samples
- 100% leak-tested — special testing procedure ensures quality product, and patented design eliminates wicking effects that can occur with homemade devices
- Choose large or small package sizes in five useful MW-cutoff designations
- Flexible format — dialyze a single sample (in a tube) or multiple samples (using 25-array float buoy)
- Easy to use: pipet sample in and out, and snap cap to close

INCLUDES: MINI units (cups), snap caps and tubes or float (kits only)

Description	Mfr. No.	Cat. No.	Each
2000 Dalton MWCO			
50 units	69580	**PI-69580**	180.41
250 units	69553	**PI-69553**	551.77
3500 Dalton MWCO			
10 units	69558	**PI-69558**	79.13
50 units	69550	**PI-69550**	180.41
250 units	69552	**PI-69552**	551.77
7000 Dalton MWCO			
50 units	69560	**PI-69560**	180.41
250 units	69562	**PI-69562**	551.77
10,000 Dalton MWCO			
10 units, plus microtubes	69574	**PI-69574**	70.69
10 units, plus float	69576	**PI-69576**	79.13
50 units	69570	**PI-69570**	180.41
250 units	69572	**PI-69572**	551.77
20,000 Dalton MWCO			
50 units	69590	**PI-69590**	180.41
250 units	69555	**PI-69555**	551.77
Accessories			
MINI Dialysis Unit Float	69588	**PI-69588**	29.54

Spectrum™Spectra/Por™ Float-A-Lyzer™ G2 Dialysis Devices

Ready-to-use and disposable, Float-A-Lyzer G2 incorporates biotech-grade cellulose ester (CE) membrane tubing into a preasembled dialysis device that is easy-to-use and provides ultimate convenience for small volume dialysis (1 to 10mL)

Float-A-Lyzer G2

Available in volume sizes: 1mL, 5mL and 10 mL. Resealable screw cap is color-coded for nine available MWCOs and provides open access for easy loading and total sample recovery with a disposable pipet (included for 5mL and 10mL sizes). Flotation ring (included) provides buoyancy to maximize dialysis efficiency.

- Superior handling and leak protection
- Resealable screw cap and pipet for easy loading and total recovery
- Highest membrane purity, no heavy metals and sulfides
- Minimize volume specific dilution
- Nine MWCOs ranging from 100 to 1,000,000 Daltons

MWCO	Color Code	Max. Sample Volume	Mfr. No.	Cat. No.	Pack of 12
0.1 to 0.5kD	Green	1mL	G235025	**08-607-022**	216.00
3.5 to 5kD	Black	1mL	G235029	**08-607-023**	238.00
3.5 to 5kD	Black	5mL	G235053	**08-607-020**	149.00
3.5 to 5kD	Black	10mL	G235065	**08-607-017**	166.30
8 to 10kD	Yellow	1mL	G235031	**08-607-021**	167.60
8 to 10kD	Yellow	5mL	G235055	**08-607-000**	153.00
8 to 10kD	Yellow	10mL	G235067	**08-607-015**	166.30
20kD	Red	1mL	G235033	**08-607-013**	230.00
20kD	Red	5mL	G235057	**08-607-007**	153.00
50kD	Violet	1mL	G235034	**08-607-005**	147.80
50kD	Violet	5mL	G235058	**08-607-008**	153.00
50kD	Violet	10mL	G235070	**08-607-010**	222.50
100kD	Blue	1mL	G235035	**08-607-012**	167.10
100kD	Blue	5mL	G235059	**08-607-006**	153.00
100kD	Blue	10mL	G235071	**08-607-011**	226.50

Spectrum™ Micro Float-A-Lyzer™ Ready-to-Use Small Volume Dialysis Device

Providing ultimate convenience, this preassembled device incorporates Spectrum's ultrapure Biotech Grade Cellulose Ester (CE) membrane tubing into an easy-to-use design making laboroatory microdialysis easier than ever

Ready-to-use and disposable, the Float-A-Lyzer G2 incorporates Biotech Grade Cellulose Ester (CE) membrane tubing into a preasembled dialysis device that is easy-to-use and provides ultimate convenience. Available in volume sizes: 1, 5 and 10 mL. The resealable screw cap is color-coded for nine available MWCOs and provides open access for easy loading and total sample recovery with a disposable pipet (included for 5 and 10mL sizes). The flotation ring (included) provides buoyancy to maximize dialysis efficiency.

Micro Float-A-Lyzers

- Designed to stand upright on bench-tops during experimental preparation as well as float and self-orient during dialysis
- Leak-proof Luer-Lok™ cap provides easy access with the included syringe for easy loading and sample retrieval
- Units can also interlock for the simultaneous dialysis of multiple samples
- Maximizes SA and minimizes hold-up volume

MWCO	Color Code	Mfr. No.	Cat. No.	Pack of 12
100 to 200µL				
0.1 to 0.5kD	Green	F235049	**08-607-072**	118.10
0.5 to 1kD	Orange	F235051	**08-607-073**	118.10
3.5 to 5kD	Blue	F235053	**08-607-074**	118.10
8 to 10kD	Red	F235055	**08-607-075**	118.10
20kD	Black	F235057	**08-607-076**	114.04
50kD	White	F235058	**08-607-077**	118.10
100kD	Yellow	F235059	**08-607-078**	118.10
400 to 500µL				
0.1 to 0.5kD	Green	F235061	**08-607-079**	118.10
0.5 to 1kD	Orange	F235063	**08-607-080**	118.10
3.5 to 5kD	Blue	F235065	**08-607-081**	118.10
8 to 10kD	Red	F235067	**08-607-082**	118.10
20kD	Black	F235069	**08-607-083**	118.10
50kD	White	F235070	**08-607-084**	118.10
100kD	Yellow	F235071	**08-607-085**	118.10

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Pierce™ 96-well Microdialysis Plates

Convenient and rapid dialysis system for 1 to 96 small samples

Pierce 96-well Microdialysis Plates, 3.5K MWCO

Each sample processed with the Pierce 96-well Microdialysis Dialysis Plates are dialyzed inside a single, removable dialysis device created by two 10K MWCO regenerated cellulose membranes separated by <2mm. The short diffusion distance and large surface area facilitates rapid dialysis with the removal of salts and small molecules often completed in two to four hours. Sample recovery is performed using standard laboratory micropipettes. Individual microdialysis devices can also be used with 2mL microcentrifuge tubes for processing single samples.

Highlights:

- High yield – greater than 90% protein recovery after dialysis
- Rapid – dialysis completed in two to four hours
- Easy to use – sample loading and retrieval can be done with a standard pipette
- Flexible – detachable 8-device strips, scalable from 1 to 96 samples
- Automation-compatible – plate format conforms to the SBS Microplate Standard

Item Name	Quantity	Sufficient For	Kit Contents	Cat. No.	Each
Pierce Microdialysis Plate, 96-well, 10K MWCO	1-plate set	Dialysis of 96 samples 10 to 100µL each	8-microdialysis device strip, 12 strips; 96-deep well plate, 1 plate	**PI88260**	432.55
Thermo Scientific 96-well Deep-well Plate, 2.2mL	1 plate	96 microdialysis devices	N/A	**PI88261**	15.83
Pierce 96-well Microdialysis Plates, 3.5K MWCO, Thermo Scientific	1-plate set	Dialysis of 96 samples 10 to 100µL each	8-microdialysis device strip, 12 strips; 96-deep well plate, 1 plate	**PI88262**	437.85

Membranes/Membrane Tubing

Fisherbrand® Regenerated Cellulose Dialysis Tubing

Diffuses low molecular weight compounds in aqueous solutions; retains proteins and bacteria in tubing

21-152-8

- Made from regenerated cellulose membrane
- MWCOs from 3500 to 14,000 Daltons
- Individual lot data sheets from outside laboratory supplied with tubing Types T1, T2 and T3; standard grade Type T4 is not tested in outside laboratory

ORDERING INFORMATION:
Comes on compact polystyrene spool that eliminates adsorption of glycerin from membranes. Dispenser box is packaged in plastic bag with desiccant for humidity control.

INCLUDES:
Two locking nylon membrane clamps; pair of disposable surgical scissors; individual lot data sheets supplied with tubing Types T1, T2 and T3

Flat Width	Dia. × Length	Vol./cm	Cat. No.	Each
T1 Membranes: 3500 Dalton MWCO				
19mm	12.1mm × 15m	1.15mL	**21-152-10**	237.50
46mm	29.3mm × 15m	6.74mL	**21-152-9**	252.00
T2 Membranes: 6000 to 8000 Dalton MWCO				
23mm	14.6mm × 30m	1.67mL	**21-152-3**	221.00
32mm	20.4mm × 30m	3.27mL	**21-152-4**	220.50
40mm	25.5mm × 30m	5.10mL	**21-152-5**	240.50
50mm	31.8mm × 30m	7.94mL	**21-152-6**	295.00
T3 Membranes: 12,000 to 14,000 Dalton MWCO				
10mm	6.37mm × 15m	0.32mL	**21-152-7**	281.00
25mm	15.9mm × 15m	1.98mL	**21-152-18**	258.00
45mm	28.6mm × 15m	6.42mL	**21-152-8**	253.50
T4 Standard Grade Membranes: 12,000 to 14,000 Dalton MWCO				
10mm	6.37mm × 30m	0.32mL	**21-152-17**	367.50
25mm	15.9mm × 30m	1.98mL	**21-152-16**	174.30
33mm	21.0mm × 30m	3.46mL	**21-152-15**	181.30
45mm	28.6mm × 30m	6.42mL	**21-152-14**	173.90

Spectrum™ Spectra/Por™ RC Dialysis Membranes

Supplied as flat-width tubing or flat sheets that can be folded to fit various funnel-type dialysis apparatus

Pure regenerated natural cellulose membranes with 1000 to 50,000 molecular weight cutoffs. Transparent and flexible. Ideal for molecular separation, protein binding studies, electrolyte removal, desalting.

Clockwise from left: 08-682-54A, 08-671-20, 08-670-4

- Low molecular weight compounds in aqueous solutions diffuse through membrane
- Higher molecular weights, such as proteins and bacteria, are retained by membrane
- Glycerol preserves membrane and must be removed before use
- Flat sheets and discs available for use with dialysis apparatus

Note: Do not tie knots in tubing; use closures.

Spectra/Por RC Membranes in Flat Sheets

Membrane	MWCO	Length × Width	Mfr. No.	Cat. No.	Pack of 25
Spectra/Por 1	6–8kDa	240 × 240mm	132677	**08-682-54A**	516.00
Spectra/Por 2	12–14kDa	200 × 200mm	132686	**08-670-4**	417.00
Spectra/Por 3	3.5kDa	108 × 108mm	132723	**08-671-20**	343.00
Spectra/Por 4	12–14kDa	150 × 150mm	132712	**08-671-21**	318.00

Spectra/Por 1 RC — 6000 to 8000 Dalton MWCO

Flat Width	Dia. × Length	Mfr. No.	Cat. No.	Each
23mm	14.6mm × 30.5m	132650	**08-670A**	326.50
32mm	20.4mm × 30.5m	132655	**08-670B**	327.00
40mm	25.5mm × 30.5m	132660	**08-670C**	350.00
50mm	32mm × 30.5m	132665	**08-670D**	411.00
100mm	64mm × 15m	132670	**08-670E**	486.00
120mm	76mm × 15m	132675	**08-670F**	508.00

Spectra/Por 2 Membrane Tubing — 12,000 to 14,000 Dalton MWCO

Flat Width	Dia. × Length	Mfr. No.	Cat. No.	Each
10mm	6.4mm × 15m	132676	**08-670-3AA**	429.50
25mm	16mm × 15m	132678	**08-670-3BB**	445.00
45mm	29mm × 15m	132680	**08-670-3A**	445.00
105mm	67mm × 15m	132682	**08-670-3B**	899.50
120mm	76mm × 15m	132684	**08-670-3C**	899.50

Spectra/Por 3 Membrane Tubing — 3500 Dalton MWCO

Flat Width	Dia. × Length	Mfr. No.	Cat. No.	Each
18mm	11.5mm × 15m	132720	**08-670-5A**	380.00
45mm	29mm × 15m	132724	**08-670-5B**	380.00
54mm	34mm × 15m	132725	**08-670-5C**	404.00

Spectra/Por 4 Membrane Tubing — 12,000 to 14,000 Dalton MWCO

Flat Width	Dia. × Length	Mfr. No.	Cat. No.	Each	Case of
10mm	6.4mm × 30.5m	S432697	**08-667A**	523.50	12/5420.00
25mm	16mm × 30.5m	S432700	**08-667B**	249.00	12/2450.00
32mm	20.4mm × 30m	S432703	**08-667D**	256.00	36/7540.00
45mm	29mm × 30m	S432706	**08-667E**	299.50	24/5670.00

Spectra/Por 7 Membrane Tubing — 1000 to 50,000 Dalton MWCO, Sulfur and Heavy Metal Free[1]

Flat Width[2]	Dia. × Length[2]	Mfr. No.	Cat. No.	Each
MWCO 1000 Daltons				
18mm	11.5mm × 5m	132103	**08-680-2C**	366.50
38mm	24mm × 5m	132104	**08-680-2E**	366.50
45mm	29mm × 5m	132105	**08-680-2G**	366.50
MWCO 2000 Daltons				
18mm	11.5mm × 5m	132107	**08-680-3C**	366.50
38mm	24mm × 5m	132108	**08-680-3E**	366.50
45mm	29mm × 5m	132109	**08-680-3G**	366.50
MWCO 3500 Daltons				
18mm	11.5mm × 5m	132110	**08-680-4C**	366.50
45mm	29mm × 5m	132111	**08-680-4E**	366.50
54mm	34.4mm × 5m	132112	**08-680-4G**	366.50
MWCO 8000 Daltons				
24mm	15mm × 5m	132114	**08-680-5C**	366.50
32mm	20.4mm × 5m	132115	**08-680-5E**	366.50
50mm	34.4mm × 5m	132131	**08-680-5J**	366.50
MWCO 10,000 Daltons				
12mm	7.5mm × 5m	132117	**08-680-6A**	366.50
24mm	15mm × 5m	132118	**08-680-6C**	366.50
45mm	29mm × 5m	132120	**08-680-6G**	366.50
MWCO 15,000 Daltons				
45mm	29mm × 5m	132124	**08-680-7G**	366.50
MWCO 25,000 Daltons				
12mm	7.5mm × 5m	132125	**08-680-8A**	366.50
28mm	17.8mm × 5m	132126	**08-680-8C**	366.50
MWCO 50,000 Daltons				
28mm	17.8mm × 5m	132129	**08-680-9C**	366.50
34mm	21.6mm × 5m	132130	**08-680-9E**	366.50

[1] For use in any separation where there is a chance of sensitivity to trace metals or sulfur. Contain no sulfur and have been EDTA-treated to remove trace metals. Supplied wet in 0.1% sodium azide preservative.

[2] Measurement of flat width and diameter of Spectra/Por 7 membranes may vary by 1 to 2mm.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Spectrum™ Spectra/Por™ Biotech Cellulose Ester (CE) Dialysis Membrane Tubing

Selected MWCOs from 100 to 100,000 Daltons

- CE tubing membranes are ideal for desalting, purification and molecular separation
- Supplied in 10m (33') lengths in two rolls of 5m each, in 0.1% sodium azide solution

Dialysis RC Membrane Tubing

ORDERING INFORMATION:
Note: Do not tie — must be used with Spectra/Por nylon closures (08-671-52, -53, -55). Strong polar solvents such as acetone, MEK, or dioxane will irreparably damage membranes.
Contact Spectrum Technical Service, 1-800-634-3300, for more information.

MWCO	Flat Width	Diameter × Length	Volume/ cm	Mfr. No.	Cat. No.	Each
500 Dalton	10mm	6.4mm × 10m	0.32mL	131048	**08-750-2B**	427.50
500 Dalton	16mm	10mm × 10m	0.81mL	131054	**08-750-2D**	499.00
500 Dalton	24mm	15mm × 10m	1.80mL	131057	**08-671-24**	542.50
500 Dalton	31mm	20mm × 10m	3.10mL	131060	**08-671-25**	568.00
1000 Dalton	24mm	15mm × 10m	1.80mL	131093	**08-671-26**	555.00
1000 Dalton	31mm	20mm × 10m	3.10mL	131096	**08-671-27**	585.00
10,000 Dalton	16mm	10mm × 10m	0.81mL	131270	**08-750-8D**	496.00
10,000 Dalton	24mm	15mm × 10m	1.80mL	131273	**08-671-32**	570.00
100,000 Dalton	10mm	6.4mm × 10m	0.32mL	131408	**08-671-38**	428.50
100,000 Dalton	16mm	10mm × 10m	0.81mL	131414	**08-671-39**	492.00
100,000 Dalton	24mm	15mm × 10m	1.80mL	131417	**08-671-40**	555.00
100,000 Dalton	31mm	20mm × 10m	3.10mL	131420	**08-671-41**	602.00

Thermo Scientific™ SnakeSkin™ Dialysis Tubing Clips

Easily and reliably close the ends of most kinds of dialysis tubing

- Durable — polyamide composition for long-life
- Dove-tail latch — prevent sample loss
- Heat resistant — autoclave up to 134°C

PI-68011

Dialysis Clip Specifications:

- Height: 10mm
- Width: 16mm
- Inner Length: 50mm (maximum closure width)
- Outer Length: 66mm (end to end)
- Composition: Polyamide (nylon) derivative

Item Name	Quantity	Sufficient For	Cat. No.	Each
SnakeSkin Dialysis Tubing Clips	6 clips	Closing 3 tubings at a time (reusable)	**PI-68011**	64.36

Thermo Scientific™ SnakeSkin™ Dialysis Tubing

Easy to prepare — just pull out the required length and cut

Each package of SnakeSkin Dialysis Tubing consists of a 20cm pleated stick that corresponds to 10.5 meters of tubular dialysis membrane with a 22mm diameter. The hydrated tubing holds approximately 3.7mL of sample per centimeter of length. The pleated format of SnakeSkin Dialysis Tubing makes it easy to open and ready to use, thereby streamlining dialysis preparation.

PI-68000 Series

- Convenient format — standard regenerated cellulose dialysis tubing in an easy-to-use telescoped stick rather than a roll of flattened tubing
- Ready-to-use — no pretreatment and boiling in carbonate buffer required; cut off the length needed, dip in buffer and add sample
- Three versions — available in three molecular-weight cutoff (MWCO) formats (3.5K, 7K and 10K) for separations involving small or large proteins
- Accessories available — use with matching clips and compatible float buoy (Part No. 66432)

Membrane Properties:

- Membrane type: Regenerated cellulose
- Glycerol content: Trace (3.5K), 13% (7K), 21% (10K)
- Sulfur content: 0.1 to 0.15%
- Heavy metals content: Trace
- Tubing nominal dry thickness: 0.9 to 1.2mil (23 to 30µm)

MWCO	Flat Width	Dia. × Length	Vol./cm	Cat. No.	Each
3500 Daltons	34mm	22mm × 10.5m	3.7mL	**PI-68035**	155.09
7000 Daltons	34mm	22mm × 10.5m	3.7mL	**PI-68700**	155.09
10,000 Daltons	34mm	22mm × 10.5m	3.7mL	**PI-68100**	155.09

Spectrum™ Trial Size Kits for Biotech-Grade RC Dialysis Membrane Tubing

0.5 meter (1.6') dialysis tubing length ideal for small applications or membrane evaluation

Ultrapure Biotech RC is a premium dialysis membrane that provides superior molecular selectivity than Standard RC and superior tolerance than Biotech CE.

- Properties: hydrophilic, symmetric porosity
- 3 MWCOs: 3.5-5 kD, 8-10 kD and 20 kD
- Ultrapure: contains no heavy metals or sulfides

08-607 Series

INCLUDES:
0.5m Biotech RC Tubing with glycerine, two universal tubing closures, five opening picks

(MCWO)	Mfr. No.	Cat. No.	Each
3.5-5kD	133198T	**08-607-069**	103.00
8-10kD	133270T	**08-607-070**	103.00
20kD	133342T	**08-607-071**	103.00

Spectrum™ Trial Size Kits for Standard-Grade RC Dialysis Membrane Tubing (5m)

Ideal for smaller basic dialysis applications

Multi-purpose standard Regenerated Cellulose (RC) tubing is now available in 5m length trial kits with a pair of tubing closures. Uses include desalting, pH change or buffer exchange or evaluation of membrane for an application.

Kit Includes:

- 5m roll of Spectra/Por™ 1, 2 or 3 dialysis tubing
- One standard Spectra/Por Closure (aids buoyancy)
- One weighted Spectra/Por Closure (aids vertical orientation)
- Five opening picks

Spectra/Por RC Dialysis Kit

MWCO	For Use with	Flat Width	Diameter	Closure	Volume/Length	Mfr. No.	Cat. No.	Each
6 to 8 kD	Spectra/Por 1	32mm	20.4mm	55mm	3.3mL/cm	132655T	**08-801-241**	119.60
6 to 8 kD	Spectra/Por 1	50mm	32mm	75mm	7.9mL/cm	132665T	**08-801-242**	130.50
12 to 14 kD	Spectra/Por 2	25mm	16mm	35mm	2.0mL/cm	132678T	**08-801-243**	119.60
12 to 14 kD	Spectra/Por 2	45mm	29mm	55mm	6.4mL/cm	132680T	**08-801-244**	130.50
3.5 kD	Spectra/Por 3	18mm	11.5mm	35mm	1.1mL/cm	132720T	**08-801-245**	119.60
3.5 kD	Spectra/Por 3	54mm	34mm	75mm	9.3mL/cm	132725T	**08-801-246**	130.50

Spectrum™ Trial Size Kits for Biotech-Grade CE Dialysis Membrane Tubing (1 m)

Ideal for small, critical dialysis applications that require the more concise selectivity and retention provided by Biotech Cellulose Ester (CE) Membrane than Standard Grade RC

Kits are great for comparing membrane MWCO performance to optimize separation or purification. Provides a 1m length of Biotech-Grade CE membrane tubing (16mm flat width), a pair of universal tubing closures and five picks for opening membrane tubing. Tubing is wet packaged in 0.05% sodium azide preservative that easily rinses out with water. Nine different MWCOs avilalable: 0.1 to 0.5 kD, 0.5 to 1.0 kD, 3.5 to 5 kD, 8 to 10 kD, 20 kD, 50 kD, 100 kD, 300 kD and 1000 kD.

- Rigidly controlled porosity for better selectivity and separations than Standard Grade RC
- Nine MWCOs available ranging from 100 to 1,000,000 Daltons
- Ultrapure, no heavy metal or sulfiide impurities
- Low protein binding
- No glycerin removal, cleaning or pre-treatment required

INCLUDES:
1m roll of Biotech CE Dialysis Tubing (16mm flatwidth), two universal tubing closures, five tubing opening picks

08-801 Series

Specifications	
Flat Width	**16mm**
Diameter	**10mm**
Volume/Length	**0.79mL/cm**
Closures	**50mm**

MWCO	Mfr. No.	Cat. No.	Each
0.1-0.5 kD	131054T	**08-801-247**	141.30
0.5-1.0 kD	131090T	**08-801-248**	141.30
3.5-5 kD	131198T	**08-801-249**	141.30
8-10 kD	131270T	**08-801-250**	141.30
20 kD	131342T	**08-801-251**	141.30
50 kD	131378T	**08-801-252**	141.30
100 kD	131414T	**08-801-253**	141.30
300 kD	131450T	**08-801-254**	141.30
1000 kD	131486T	**08-801-255**	141.30

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Digestion

Labconco™ Kjeldahl Micro Digestor

With six heaters and six-port manifold; individual electric heaters with adjustable controls

Each 200w heater consists of tubular steel heater element and stainless-steel cup recessed into top insulating board.

- Accommodates 100mL flasks
- Six-port glass manifold exhausts fumes
- Serrated connector for water aspirator
- Top is 1.50" thick (3.8cm) insulating board; protects wiring and controls

ORDERING INFORMATION: Dimensions: 9L × 22.50W ×14"H (23 × 57 × 36cm) to top of manifold.

INCLUDES:
Manifold, two rear brackets and six 100mL flasks

21-131-5

Electrical Requirements	Mfr. No.	Cat. No.	Each
115VAC 50/60Hz, 12A	6030000	**21-131-5**	2927.29
230V AC/DC 50/60Hz, 6A	6030001	**21-131-6**	2760.00

Foss™ Kjeldahl Digestion Systems

Digestion units with integrated programmable controllers can be combined with a range of accessories to match individual needs

Benefits

- Efficient fume containment and removal through optional parts
- Systems are compatible with Kjeltec™ Distilling Units

Standard Features

- A digestion unit and tube rack with capacity for either eight or 20 tubes
- Audible "ready" or "cycle over" alerts advise user when digestion application is completed
- Audible "alarm" alerts advise user when errors/interruptions occur
- Unit is insulated to minimize heat transfer
- Auto versions have an integrated, programmable all-activity controller
- Auto models can be connected to a PC for datalogging and downloading of standard, user-defined applications

Basic Model

- Temperature and time for digestion are selected on front panel; all other procedures are performed manually
- Can be fitted with rack system at any time to save fume hood space
- Cannot be upgraded to auto model

Auto Lift Models

- GLP-support through two-way PC communication
- Facilitate highly automated procedures, eliminating heavy and risky handling of hot chemicals; save fume hood space
- When lift or scrubber unit is connected, they are controlled by the selected application program
- Exhaust manifold docks automatically with the tube rack
- Scrubber capacity is automatically adjusted to contain fumes and minimize acid losses
- When digestion is completed, the combined tube rack and exhaust manifold move to the cooling position with scrubber unit still running until no further fumes are evolved
- To avoid spillage, a drip tray is inserted under exhaust manifold after cooling

Auto Rack Models

- Allow automated digestions but require manual placement of tube rack and exhaust manifold
- Can be upgraded to Auto Lift systems

Software for Auto Systems

- Preinstalled software system controls all necessary functions of the unit
- Additional PC application software has two-way communication with Digestion Unit via serial RS-232 cable (supplied)

INCLUDES:
Digestion unit, tube rack with integrated heat shields. Auto lift models include lift and integrated controller, auto rack models include rack and integrated controller.

TC25200015

COMPLIANCE:
Software for Auto Systems supports Good Laboratory Practice (GLP) routines and accreditation procedures. Standard power failure/interrupt function complies with GLP and Health & Safety routines.

Description	Electrical Reqts.	Cat. No.	Each
Basic Models			
For 8 tubes	110V 50/60Hz	**TC2508-052**	4180.00
For 20 tubes	230V 50/60Hz	**TC2520-051**	9622.47
Auto Lift Models			
For 8 tubes	110V 50/60Hz	**TC2508-002**	9640.00
Auto Rack Models			
For 8 tubes	110V 50/60Hz	**TC2508-012**	5296.17
For 20 tubes	230V 50/60Hz	**TC2520-011**	11,142.73
System Packages			
Basic Digestion System Package	230V 50/60Hz	**TC25200055**	11,602.64
Automated Digestion System Package, Auto Lift Model	230V 50/60Hz	**TC25200005**	15,640.00
Automated Digestion System Package, Auto Rack Model	230V 50/60Hz	**TC25200015**	12,062.61

Foss™ Tecator™ Auto Digestion Unit 40

Offers a range of options for convenient, safe and flexible Kjeldahl analysis

Digestion Unit:

- Insulated to minimise heat transfer to the surroundings and allow fast, even heating
- Adjustable audible alerts such as "ready" or "cycle over"
- Integrated all activity controller that adapts to actual product configuration and is programmable using supplied software
- With two way PC communication via serial RS232 cable supplied
- Alternatively, communication can be achieved through Bluetooth™ TDK blu2i modules, or equivalent available from computer supplier
- Compatible with Kjeltec™ Distilling Units and those of other manufacturers
- Available in auto lift and auto rack versions, capable of handling 100mL tubes
- 230V 50 to 60Hz

Software:

- With two separate multi-language software systems, embedded software controlling all necessary functions on a routine basis and PC a pplication software, delivered on CD, that enables default values to be modified according to user needs
- When a Lift or Scrubber Unit is connected they are controlled by selected application program, which is stored in Digestion Unit memory, allowing unattended operation
- Up to 254 applications can be stored at any one time
- Each application can control up to 23 steps including temperature, ramp and time, lift and scrubber steps
- Data for date, time, temperature, application used, operator, batch number and ID number are constantly logged

Samples:

- Raw materials and finished products in food, feed, agriculture and related matrices
- Water and wastewater and wide range of industrial compounds

Parameters:

- Kjeldahl digestions
- Chemical Oxygen Demand and other reflux chemistries
- Trace metal analysis by AAS or ICP instruments
- Often used in combination with FIA and SFA systems

Auto lift systems:

- Eliminate handling of hot chemicals

Auto rack systems:

- Involve similar functions as auto life systems except combining/separating of Tube Rack and Exhaust Manifold, and movement to the cooling position when signal is heard

REQUIRES:
Appropriate exhaust manifold or reflux head for automatic system

Description	Mfr. No.	Cat. No.	Each
Auto Lift System	25400001	**TC25400001**	15,300.00
Auto Rack System	25400003	**TC25400003**	10,790.33

Foss™ Exhaust Manifold for Tecator™ Digestion Unit 40

Facilitates fume removal and containment and are strongly recommended for use with all digestion procedures

- Connect to water aspirator supplied or to suitable scrubber unit
- Complete with water aspirator and drip tray

Description	Mfr. No.	Cat. No.	Each
Exhaust Manifold for Tecator Digestion Unit 40	25400020	**TC25400020**	2500.00

Foss™ Digestion System Exhaust Manifolds

Facilitate fume removal and containment

Ensures Good Laboratory Practice (GLP).

TC2520-020

- Strongly recommended for use with all digestion procedures
- Should be connected to water aspirator (supplied) or to a suitable scrubber unit

For Digestion Unit	Cat. No.	Each
TC2508 Series	**TC2508-020**	1375.00
TC2520 Series	**TC2520-020**	2470.68

Foss™ Digestion System – Digestion Tubes

Straight-sided tubes recommended for the majority of digestion applications

TC1001-4278

- Volumetric tubes with constriction at neck are recommended for applications such as FIA, SFA and AA

Volume	Cat. No.	Pack of
8.45 oz. (250mL)	**TC1001-4278**	8/360.50
8.45 oz. (250mL)	**TC1000-0158**	20/817.22

Foss™ Digestion System – Scrubber Unit

For neutralization of corrosive fumes in acid digestions

TC2501-001

- Can be combined with any of the exhaust manifolds
- Handles up to 100 samples without changing of reagent
- Compact self-contained benchtop unit is unaffected by water supply issues
- When connected to Auto Lift or Auto Rack system, the auto program will fully control function including switching from high to low aspiration settings

Description	Electrical Reqts.	Cat. No.	Each
Scrubber Unit	110/230V 50/60Hz	**TC2501-001**	5460.00

FisherTab™ Kjeldahl Tablets

Achieve an optimal salt/acid ratio for every Kjeldahl digestion

- Catalyst tablets are formulated to exact specifications, ensuring reproducibility and the correct dosage for proper boiling conditions
- Each poly bottle contains 1000 tablets

Description	Composition per Tablet	Cat. No.	Each
CT-37	3.5g K_2SO_4 + 0.4g $CuSO_4$	**K301-1000**	682.00
CT-50	5g K_2SO_4 + 0.15g $CuSO_4$	**K310-1000**	637.00
CT-AUTO	1.5g K_2SO_4 + 0.125g $CuSO_4$	**K303-1000**	549.50
MT-37	3.5g K_2SO_4 + 0.175g HgO	**K306-1000**	819.50
MT-50	5g K_2SO_4 + 0.25g HgO	**K307-1000**	650.00
MT-AUTO	1.5g K_2SO_4 + 0.075g HgO	**K309-1000**	222.16
SST-35	3.5g K_2SO_4 + 0.1g $CuSeO_3$	**K312-1000**	756.00
ST-35	3.5g K_2SO_4 + 0.35g Se	**K311-1000**	599.50
ST-AUTO	1.5kg K_2SO_4 + 0.015g Se	**K313-1000**	553.00
TT-35	3.5g K_2SO_4 + 0.1g $CuSO_4$ + 0.1g TiO_2	**K315-1000**	690.00
TT-50	5g K_2SO_4 + 0.15g $CuSO_4$ + 0.15g TiO_2	**K316-1000**	713.00
TT-57	5.57g K_2SO_4 + 0.0033g $CuSO_4$ + 0.2g TiO_2	**K318-1000**	811.58
TT-43	4.18g K_2SO_4 + 0.0025g $CuSO_4$ + 0.15g TiO_2	**K317-1000**	916.34

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Dishes

Evaporating

Fisherbrand® Low- and Tall-Form PTFE Evaporating Dishes

Inert and usable to 280°C (536°F)

Smooth internal finish.

- With heavy walls
- With pouring spout

02-617 Series

Diameter	Height	Capacity	Cat. No.	Each
Low-Form				
3.93" (100mm)	0.62" (16mm)	3.38 oz. (100mL)	**02-617-148**	53.31
4.76" (121mm)	0.74" (19mm)	6.08 oz. (180mL)	**02-617-149**	70.00
5.1" (130mm)	1.33" (34mm)	11.8 oz. (350mL)	**02-617-150**	94.50
5.1" (130mm)	1.41" (36mm)	13.53 oz. (400mL)	**02-617-151**	104.00
Tall-Form				
1.49" (38mm)	1.33" (34mm)	0.84 oz. (25mL)	**02-617-139**	26.45
1.57" (40mm)	1.96" (50mm)	1.7 oz. (50mL)	**02-617-140**	32.70
2.51" (64mm)	1.96" (50mm)	3.38 oz. (100mL)	**02-617-141**	48.25
3.07" (78mm)	1.69" (43mm)	5.07 oz. (150mL)	**02-617-142**	54.00
3.81" (97mm)	1.96" (50mm)	8.45 oz. (250mL)	**02-617-144**	76.40
3.93" (100mm)	2.36" (60mm)	11.8 oz. (350mL)	**02-617-145**	84.20

Petri - Disposable

Fisherbrand® Petri Dish with Clear Lid

Features a new and improved design and packaging

- Made from medical-grade, gamma sterilized polystyrene
- Ventilation ribs on the lid allow for air circulation
- Manufactured in a state-of-the-art cleanroom facility
- Packaging features a UPS™ shippable outer carton to prevent damage
- Product sleeve is made from a strong polymer to prevent bag holes
- Dishes packed in easy-open product sleeve with tear notch
- Product sleeves are vacuum sealed to prevent scuffing and other damage to dishes
- Complete manufacturing traceability with use of both the lot number on the case label and the lot ID number on the product sleeve
- 25/sleeve, 500/case
- **Note:** Cat. No. FB0875713 has an ISO mark for use in automation.

FB0875712

Lid Style	O.D. × H	Cat. No.	Case of 500
Stackable, Raised Ridge	60 × 15mm	**FB0875713A**	216.50
Stackable, Raised Ridge	100 × 15mm	**FB0875712**	261.00
Slippable, Beveled Ridge	95 × 15mm	**FB0875714G**	267.00
Slippable, Beveled Ridge	100 × 15mm	**FB0875713**	261.00
Slippable, Beveled Ridge	150 × 15mm	**FB0875714**	199.80

Fisherbrand® Disposable Petri Dishes and Pad Dishes

Available with or without absorbent pads

Sterilized Petri Dishes

- Tight-fitting lid prevents dehydration
- 47mm dishes can be used with solid agar medium or add absorbent pads for liquid medium
- Molded polystyrene

09-720-501

Sterilized Pad Dishes

- Preloaded 47mm dishes with sterilized absorbent pads
- Minimize contamination
- Pure cellulose pad
- Extended 3-year shelf-life

Description	Cat. No.	Case of
Petri Dishes	**09-720-500**	150/55.80
Petri Dishes	**09-720-502**	600/152.90
Petri Dishes with Pads	**09-720-501**	150/67.80
Petri Dishes with Pads	**09-720-503**	600/205.50

Thermo Scientific™ Nunc™ Lab-Tek™ Extra-Depth Petri Dishes

Extra depths of 20 and 25mm accommodate deeper fills

- Promote larger plaques used for efficient library screening
- Compatible with automated systems
- Sterile; disposable
- Deep Petri dishes allow for longer culture periods

08-757-28

Description	O.D. × H	Mfr. No.	Cat. No.	Case of
Stackable; Vented	60 × 20mm	4036	**08-757-10M**	400/362.50
Stackable; Vented	100 × 25mm	4031	**08-757-28**	300/358.85
Without stack ring; Unvented	150 × 25mm	4014	**08-757-10E**	72/243.00

Gosselin™ Petri Dishes

Optimized for automation

- Sterile; manufactured in a Class 100 environment
- Retains shape up to 55°C
- Has product label on each box for product traceability
- Flat and transparent for image analyzing systems

07-201-914

Compartments	O.D. × H	Mfr. No.	Cat. No.	Each
1	60 × 15mm	BP53-02	**07-201-908**	310.00
1	90 × 15mm	BP93B-16	**07-201-803**	142.36
1	100 × 15mm	SB93-03	**07-201-914**	160.57
2	100 × 15mm	BI93D-02	**07-201-904**	169.00

ON THE WEB...

Looking for more Petri dishes?

Visit www.fishersci.com and search for Petri Dishes

EMD Millipore™ Petri Dishes and Petri-Pad™ Dishes

Available with or without absorbent pads

Petri Dishes

- 47mm sterilized Petri dishes
- Use with solid agar medium
- Dishes are made of molded polystyrene

Petri-Pad Dishes

- Presterilized disposable 47mm dishes preloaded with sterilized absorbent pads
- Eliminate labor and cost of hand-loading pads and minimize contamination
- Pads are pure cellulose

PD20 047 00

REQUIRES:
When using with liquid medium, add sterile absorbent pads (order Cat. No. AP10 047 S0, 47mm Sterile Pads; or AP10 045 S1, Millipore Pad Dispenser with Sterile Pads).

Description	Mfr. No.	Cat. No.	Case of
Petri Dishes	PD2004700	**PD20 047 00**	150/57.50
	PD2004705	**PD20 047 05**	600/171.40
Petri-Pad Dish	PD20047S0	**PD20 047 S0**	150/74.60
	PD20047S5	**PD20 047 S5**	600/225.00

Falcon™ Bacteriological Petri Dishes with Lid

Made of non-treated crystal-grade polystyrene for optical clarity

- Flat, distortion free optics
- Vented lids designed for optimal gas exchange
- Stacking rings allow for easier stacking and handling
- Frosted rim improves the handling of the dish (feature facilitates the ability to pick up the dish without accidentally removing the lid to guarantee aseptic manipulation)
- Non pyrogenic
- Packaged in peel-open medical-style bags
- Durable construction for stable dish manipulation

08-757-100B

O.D. × H	Mfr. No.	Cat. No.	Case of
1.37 × 0.39" (35 × 10mm)	351008	**08-757-100A**	500/267.32
2.36 × 0.59" (60 × 15mm)	351007	**08-757-100B**	500/191.20
3.93 × 0.59" (100 × 15mm)	351029	**08-757-100D**	500/181.22
5.90 × 0.59" (150 × 15mm)	351058	**08-757-148**	100/143.85

ON THE WEB...

Looking for More Petri Dishes?

Visit www.fishersci.com and search for Petri Dishes

Falcon™ Tight-Fit Lid Dishes

Tightly fitting lid minimizes sample dehydration

- Durable polystyrene construction, optically clear
- Sterile and disposable

ORDERING INFORMATION:
Packaged 20 per sleeve.

08-757-105

Outside Dia. × H	Mfr. No.	Cat. No.	Case of 500
1.96 × 0.35" (50 × 9mm)	351006	**08-757-105**	304.26

Petri - Reusable

Corning™ Pyrex™ Brand Reusable Petri Dishes

Flat, clear dishes with beaded edges withstand repeated sterilization (wet or dry)

- Withstands repeated sterilization
- Not affected chemically or thermally
- Tops marked in blue
- Bottoms marked in white with triangular enamel reference point for serial dilutions
- Not airtight

08-747A

Description	Mfr. No.	Cat. No.	Each
Complete; 60 dia. × 15mmH	3160-60	**08-747A**	156.90
Complete; 100 dia. × 10mmH	3160-100	**08-747B**	121.50
Complete; 100 dia. × 15mmH	3160-101	**08-747C**	122.80
Complete; 100 dia. × 20mmH	3160-102	**08-747D**	116.30
Complete; 150 dia. × 15mmH	3160-150	**08-747E**	315.22

Special-Purpose Dishes

Pyrex™ Brand Crystallizing Dishes

Ideal for storage and crystallization

- Reinforced and fire-polished rims reduce chipping
- Withstand repeated autoclaving

08-741C

Dia. × H	Capacity	Mfr. No.	Cat. No.	Pack of	Case of
70 × 50mm	180mL	3140 70	**08-741A**	6/125.70	4 Pk./374.00
80 × 40mm	180mL	3140 80	**08-741B**	6/123.00	4 Pk./366.00
90 × 50mm	270mL	3140 90	**08-741C**	6/134.30	3 Pk./299.50
100 × 50mm	325mL	3140 100	**08-741D**	6/164.90	3 Pk./368.00
125 × 65mm	740mL	3140 125	**08-741E**	4/207.00	3 Pk./461.00
150 × 75mm	1200mL	3140 150	**08-741F**	4/274.50	2 Pk./408.00
170 × 90mm	1770mL	3140 170	**08-741G**	2/165.70	4 Pk./493.00
190 × 100mm	2500mL	3140 190	**08-741H**	2/196.00	3 Pk./437.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nunc™ Dishes, Cell Culture/Petri

Nunclon Delta surface treatment plus a wide range of culture areas provide choice and flexibility in cell culture experiments

Polystyrene provides high optical quality — especially when microscopic examination is required

- Top and bottom stacking rings for easier handling and more stable stacking
- Tested for cell growth and plating efficiency
- Radiation sterilized
- Air vents provide gas exchange
- For cloning experiments and plating efficiency determinations
- With lid

ORDERING INFORMATION:
For dish dimensions, see product specifications.

INCLUDES:
A certificate which assures user of biological performance as well as traceability.

12-565-020

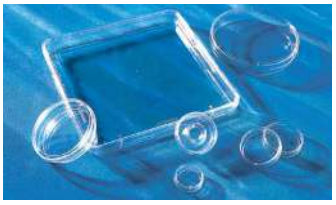
Culture Area	Working Volume	O.D. × H	Grid Size	Vent	Mfr. No.	Cat. No.	Case of
8.8cm²	3mL	40 × 12mm	NA	No	150318	**12-565-90**	500/370.00
8.8cm²	3mL	35 × 12mm	NA	Yes	153066	**12-565-91**	500/375.00
8.8cm²	3mL	40 × 12mm	2 × 2mm	Yes	174926	**12-565-92**	500/455.50
8.8cm²	3mL	40 × 12mm	NA	Yes	171099	**12-565-93**	500/464.50
20.8cm²	5mL	60 × 15mm	NA	Yes	174888	**12-565-97**	500/977.00
21.5cm²	5mL	60 × 15mm	NA	No	150326	**12-565-94**	400/336.50
21.5cm²	5mL	60 ×15mm	NA	Yes	150288	**12-565-95**	400/340.50
56.7cm²	5mL	100 × 15mm	NA	Yes	150350	**12-565-020**	150/231.50
56.7cm²	12.5mL	100 × 15mm	NA	Yes	150679	**12-565-98**	450/775.50
56.7cm²	12.5mL	100 × 20mm	NA	Yes	172958	**12-565-99**	480/813.11
145cm²	35mL	150 × 20mm	NA	Yes	168381	**12-565-100**	80/290.00
150cm²	35mL	150 × 20mm	NA	Yes	157150	**12-565-352**	120/436.50

Corning™ TC-Treated Culture Dish

Culture dish, treated for optimal cell attachment

- Manufactured from optically-clear virgin polystyrene
- Supplied with vents to provide consistent gas exchange
- Sterilized by gamma radiation and certified nonpyrogenic
- Have stacking beads to aid in handling

ORDERING INFORMATION:
Package quantities differ. Check ordering table for details.



08-722-20, 08-772-22, 07-200-599, 08-772-24

Shape	O.D. × H	Growth Area	Mfr. No.	Cat. No.	Case of
Square	245 × 245mm	500cm²	431110	**07-200-599**	16/360.53
Round	60 × 15mm	21cm²	430196	**08-757-168**	500/512.87
Round	35 × 10mm	9cm²	430165	**08-772-20**	500/354.34
Round	60 × 15mm	21cm²	430166	**08-772-21**	500/388.30
Round	80.5 × 20mm	55cm²	430167	**08-772-22**	500/848.84
Round	100 × 20mm	55cm²	430293	**08-772-23**	480/803.09
Round	142.75 × 27.43mm	148cm²	430599	**08-772-24**	60/208.27

Tissue Culture

Falcon™ Tissue Culture Dishes

Unique design simplifies lifting one dish or a stack of small dishes.

- Easy-grip
- Optically clear
- Perfectly flat
- Polystyrene
- With lid, sterile, nonpyrogenic

ORDERING INFORMATION:
Packed 20 per sleeve
(25 sleeves per case).

08-772 Series

O.D. × H	Mfr. No.	Cat. No.	Case of
Easy Grip			
35 × 10mm	353001	**08-772A**	500/296.84
60 × 15mm	353004	**08-772F**	500/355.55
Standard			
60 × 15mm	353002	**08-772B**	500/340.57
100 × 20mm	353003	**08-772-E**	200/294.20
Gridded			
150 × 25mm	353025	**08-772-6**	100/315.44

Dispensers/Diluters

Fisherbrand®

Bottle-Top Dispensers

Deliver even aggressive liquids and organic solvents safely and effortlessly (except hydrofluoric acid).

03-692-180

- Precision valve mechanism ensures easy priming and minimum reagent waste, with no leakage back to the reservoir
- Polypropylene protection sleeve surrounds the borosilicate glass barrel
- Dispenser head can be rotated 360° for convenient dispensing and volume adjustment
- Smooth-moving PTFE piston minimizes operator fatigue and can be removed in seconds for cleaning
- Dispensers fit directly onto 30mm-neck bottles
- Accuracy: ±0.3% at maximum volume
- Repeatability: ±0.1% or better

INCLUDES: 38, 40 and 45mm adapters and an individual calibration certificate. Optional reservoirs are sold separately.

CERTIFICATIONS: CE marked. Manufactured to ISO 9001:2008 quality system standards.

Range	Increments	Cat. No.	Each
0.05–2.5mL	0.05mL	**03-692-177**	418.14
0.1–5mL	0.1mL	**03-692-178**	418.14
0.2–10mL	0.2mL	**03-692-179**	441.95
1–30mL	1mL	**03-692-180**	557.87
1–50mL	1mL	**03-692-181**	603.41

Thermo Scientific™ Finnpipette™ Dispensers

- Ergonomically designed and non-slip piston handle
- Excellent chemical and thermal resistance
- Fully autoclavable without disassembling
- Exact self-locking system in the volume setting
- Volumes are absolutely reproducible
- Dispensing head cap prevents dripping

14-487-201

WARRANTY: One year

CERTIFICATIONS: Individual calibration certificate with serial number

NOTES: Limitations include HF, liquids that attack Halar, FEP or Hastelloy suspensions because solid particles might block the valves.

Volume Range	Mfr. No	Cat. No.	Each
0.2 to 1mL	4421120	**14-487-200**	496.00
0.4 to 2mL	4421130	**14-487-201**	496.00
1 to 5mL	4421140	**14-487-202**	496.00
2 to 10mL	4421150	**14-487-203**	496.00
5 to 30mL	4421160	**14-487-204**	664.50
10 to 60mL	4421170	**14-487-205**	704.50

BRAND™ Dispensette™ III Bottle-Top Dispensers

- Rugged floating piston design adapts to nearly any unpressurized container
- All models can be calibrated easily
- Digital models have mechanical digital displays and include Easy Calibration™ feature
- Integral SafetyPrime™ valve permits recirculation of dispensed liquid into reagent bottle during priming to reduce sputtering and conserve reagents
- Safety discharge system protects against inadvertent dispensing
- Polypropylene cylinder sleeve helps contain dispenser contents in event of breakage
- Accuracy for all models is within ±≤0.5% (±≤1.0% for 0.05-0.5mL size), with reproducibility of ≤0.1% (≤0.2% for 0.05-0.5mL size)
- Autoclavable at 250°F (121°C) for sterile dispensing or decontamination
- Valve block rotates 360°

13-688 Series

INCLUDES: 45mm thread, discharge tube, telescoping filling tube, valve mounting tool, polypropylene thread adapters (10mL or smaller units supplied with 24, 28, 33 and 38mm adapters; 25 and 50mL units come with 28, 33 and 38mm adapters; 100mL units come with 33 and 38mL adapters), certificate of performance and operating manual

COMPLIANCE: Can be calibrated by users for GLP and ISO 9000 compliance.

NOTES: For dispensing concentrated fuming acids, peroxides or difficult organic solvents, select the Dispensette Organic. Not for use with hydrofluoric acid (HF) or carbon disulfide (CS_2).

Range	Mfr. No.	Cat. No.	Each
Digital Easy Calibration Adjustable-Volume Models			
0.2 to 2mL	4701321	**13-688-220**	606.98
0.5 to 5mL	4701331	**13-688-221**	606.98
1 to 10mL	4701341	**13-688-222**	606.98
2.5 to 25mL	4701351	**13-688-223**	803.26
5 to 50mL	4701361	**13-688-224**	816.69
Analog Adjustable-Volume Models			
0.05 to 0.5mL	4701101	**13-688-225**	528.50
0.2 to 2mL	4701121	**13-688-226**	521.15
0.5 to 5mL	4701131	**13-688-227**	521.15
1 to 10mL	4701141	**13-688-228**	521.15
2.5 to 25mL	4701151	**13-688-230**	725.61
5 to 50mL	4701161	**13-688-231**	742.44
10 to 100mL	4701171	**13-688-232**	1136.19
Fixed-Volume Models			
1mL	4701211	**13-688-233**	528.50
2mL	4701221	**13-688-234**	528.50
5mL	4701231	**13-688-235**	528.50
10mL	4701241	**13-688-236**	528.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

BRAND™ Dispensette™ Analog Organic Bottle-Top Dispensers

For dispensing organic solvents including chlorinated and fluorinated hydrocarbons, concentrated acids (e.g., HNO_3), trifluoroacetic acid (TFA) tetrahydrofuran (THF), methanol, acetonitrile, methylene choride, DMF and DMSO.

- Mount directly on most solvent and reagent bottles for fast, convenient dispensing
- Safety discharge system to reduce the chance of inadvertent dispensing
- Easily disassemble for cleaning and autoclaving
- Analog and adjustable optional SafetyPrime™ valve reduces spurting and reagent waste while priming

Specifications	
Accuracy	≤±0.5%
Reproducibilty	≤0.1%
Max. Vapor Pressure	600mbar
Max. Viscosity	500mm²/sec. (500 cSt)
Max. Temperature	40°C
Max. Density	2.2g/cm³

INCLUDES:
Discharge tube, telescopic filling tube, selection of bottle-top thread adapters, manual and calibration certificate

NOTES:
Must not be used for hydrofluoric acid (HF), carbon disulfide, alkaline solutions, hydrochloride salts or liquids incompatible with the listed flowpath materials.

13-642 Series

		With SafetyPrime valve			Without SafetyPrime valve		
Range	**Increments**	**Mfr. No.**	**Cat. No.**	**Each**	**Mfr. No.**	**Cat. No.**	**Each**
Analog Adjustable Models							
0.5 to 5mL	0.1mL	4731131	**13-688-270**	564.39	4731130	**13-642-890**	553.00
1 to 10mL	0.2mL	4731141	**13-688-272**	564.39	4731140	**13-642-891**	553.00
2.5 to 25mL	0.5mL	4731151	**13-688-273**	783.37	4731150	**13-642-892**	775.50
5 to 50mL	1.0mL	4731161	**13-688-274**	797.29	4731160	**13-642-893**	787.00
10 to 100mL	1.0mL	4731171	**13-688-100**	1234.10	4731170	**13-688-566**	1214.00

Eppendorf™ Varispenser™ Plus/Varispenser Bottle-Top Reagent Dispensers

- PFA-sealing of the slide piston prevents jamming
- No crystallization of liquid
- No dripping when valve closed
- Rapid volume setting using precise graduation scale
- Patented safety valve for deairing without loss of reagent
- Cannel-sealing cap prevents media contact
- Autoclavable

ORDERING INFORMATION:
Bottle-top dispenser fits on external threads of 32mm (sizes 1, 2 and 3) or 45mm (sizes 4, 5 and 6), complete with telescopic tube, wrench and three adapters.

13-687-260

Volume Range	Dispensing Intervals	Mfr. No.	Cat. No.	Each
Varispenser fits on external threads of 32mm (Sizes 1, 2 and 3)				
5 to 25mL	0.5mL	4960000043	**13-687-263**	672.72
10 to 50mL	1mL	4960000051	**13-687-264**	710.40
20–100mL	2mL	4960000060	**13-687-265**	1054.83
Varispenser fits on external threads of 45mm (Sizes 4, 5 and 6)				
0.5 to 2.5mL	0.05mL	4960000019	**13-687-260**	505.89
1 to 5mL	0.1mL	4960000027	**13-687-261**	505.89
2 to 10mL	0.2mL	4960000035	**13-687-262**	505.89
Varispenser Plus fits on external threads of 32mm (Sizes 1, 2 and 3)				
5 to 25mL	0.5mL	4961000047	**13-687-269**	726.54
10 to 50mL	1mL	4961000055	**13-687-270**	737.30
20 to 100mL	2mL	4961000063	**13-687-271**	1140.94
Varispenser Plus fits on external threads of 45mm (Sizes 4, 5 and 6)				
0.5 to 2.5mL	0.05mL	4961000012	**13-687-266**	532.80
1 to 5mL	0.1mL	4961000020	**13-687-267**	532.80
2 to 10mL	0.2mL	4961000039	**13-687-268**	532.80

Fisherbrand® Digital Burets

- Accuracy within ±0.2%.
- Precision better than 0.1% with a resolution of 0.01mL
- Burets fit directly onto 30mm-neck bottles
- Continuous display of volume dispensed with zero reset feature for multiple titrations
- Chemically resistant and autoclavable liquid pathway
- Liquid-path parts are easily disassembled for sterilization or autoclaving at 121°C (250°F), 2 bar

INCLUDES:
33, 38 and 45mm adapters and an individual calibration certificate

CERTIFICATIONS:
CE marked. Manufactured to ISO 9001:2008 quality system standards.

Capacity	Cat. No.	Each
30mL	**03-692-210**	1013.78
50mL	**03-692-211**	1016.89

ON THE WEB...

Looking for More Dispensers/Diluters?

Visit www.fishersci.com and search for Dispensers/Diluters

BRAND™ Titrette™ Digital Bottle-Top Burets

- Smooth operation for exceptionally sensitive drop-wise titrations
- Avoid the risk of spills from poured transfers
- Eliminate meniscus reading errors
- Switch automatically between filling and titrating
- Meet tolerances for Class A glass burets per ISO and ASTM standards
- Optional RS-232 interface available for direct data transmission to a PC
- Use for a variety of applications including general chemistry, water treatment, food/beverage analysis, industrial titrations and environmental work in the lab or field

14-379 Series

INCLUDES: Performance certificate, telescoping filling tube, two AAA batteries, three bottle thread adapters, two amber inspection windows and operating manual. Models with RS-232 interface include connector cable and software CD.

Description	Mfr. No.	Cat. No.	Each
25mL	4761151	**14-379-342**	1095.00
25mL with RS-232 interface	4761251	**14-379-340**	1525.00
50mL	4761161	**14-379-343**	1095.00
50mL with RS-232 interface	4761261	**14-379-341**	1525.00

BRAND™ Digital Dispensette™ Organic Bottle-Top Dispensers

For dispensing organic solvents including chlorinated and fluorinated hydrocarbons, concentrated acids (e.g., HNO_3), trifluoroacetic acid (TFA) tetrahydrofuran (THF), methanol, acetonitrile, methylene choride, DMF and DMSO.

- Mount directly on most solvent and reagent bottles for safe, fast and convenient dispensing
- Reinforced discharge tube with threaded safety cap
- Safety discharge system to reduce the chance of inadvertent dispensing
- Easily disassemble for cleaning and autoclaving
- Digital Easy Calibration™ models reduce calibration time by half compared to conventional instruments
- Optional SafetyPrime™ valve reduces spurting and reagent waste while priming

13-688-276

INCLUDES:
Discharge tube, telescopic filling tube, selection of bottle-top thread adapters, manual and calibration certificate

NOTES:
Must not be used for hydrofluoric acid (HF), carbon disulfide, alkaline solutions, hydrochloride salts or liquids incompatible with the listed flowpath materials.

Specifications	
Accuracy	≤±0.5%
Reproducibilty	≤0.1%
Max. Vapor Pressure	600mbar
Max. Viscosity	500mm²/sec. (500 cSt)
Max. Temperature	40°C
Max. Density	2.2g/cm³

		With SafetyPrime Valve			Without SafetyPrime Valve		
Range	Increments	Mfr. No.	Cat. No.	Each	Mfr. No.	Cat. No.	Each
0.5 to 5mL	0.02mL	4731331	**13-688-275**	640.82	4731330	**13-642-886**	617.00
1 to 10mL	0.05mL	4731341	**13-688-276**	640.82	4731340	**13-642-887**	617.00
2.5 to 25mL	0.1mL	4731351	**13-688-277**	839.18	4731350	**13-642-888**	826.50
5 to 50mL	0.2mL	4731361	**13-688-278**	876.56	4731360	**13-642-889**	853.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Hamilton™ Company Microlab™ 600 Diluter/Dispenser System

- Available as a single or dual syringe system
- High torque, precision stepper motors deliver positional accuracy
- Supports syringes from 10µL to 50mL
- Ethernet port for communication with controller or corporate network

Syringe Pump Features

- High torque valve motors
- Precision syringe drives with 48,000 step resolution over 60 minutes
- Lighted power and prime buttons
- Independent left and right trigger ports
- Fanless heat vent
- 24V power input
- CAN Daisy Chain input/out
- RS-232 console port
- Power over Ethernet (PoE)
- TTL Input/Output

Dual Syringe Diluter

- Creates up to a 1:50,000 dilution in single step
- Reduces preparation time and wasted buffer
- Washes tubing between each sample

Microlab 600 Family

ORDERING INFORMATION: Microlab 600 Printer Kit sold separately.

INCLUDES:
Dispensers: Concorde hand probe (the dual dispenser uses the dual push button hand probe), universal valve(s), fill/dispense tubing, accessory holder, country-specific power cord and selected syringes.

NOTE: If no syringe(s) are selected at the time of the order, the –DIS will ship with 1mL syringe(s) and the –CNT will ship with 10mL syringes.

Diluters: concorde hand probe, universal valves, fill/dispense tubing, accessory holder, country-specific power cord and two selected syringes.

NOTE: If no syringes are selected at the time of the order, a 2.5mL and 250µL syringe will be included.

Basic to Advanced Controller Upgrade Kit: advanced manual, 2GB SD card, SD-to-USB converter, programmer software CD

Custom Programmer Kit: programmer software CD with programmer manual, application programming interface, an example LabView, C, and VB programs

Printer Kit: printer, power source, adapter and cable

Description	Mfr. No.	Cat. No.	Each
Single Syringe Dispenser with Basic Controller	ML610-DIS	**14-816-239**	4500.00
Single Syringe Dispenser with Advanced Controller	ML620-DIS	**14-816-243**	5040.00
Dual Syringe Dispenser with Basic Controller	ML615-DIS	**14-816-241**	5460.00
Dual Syringe Dispenser with Advanced Controller	ML625-DIS	**14-816-245**	5980.00
Dual Syringe Continuous Dispenser with Basic Controller	ML615-CNT	**14-816-242**	5460.00
Dual Syringe Continuous Dispenser with Advanced Controller	ML625-CNT	**14-816-246**	5990.00
Dual Syringe Diluter with Basic Controller	ML615-DIL	**14-816-240**	5240.00
Dual Syringe Diluter with Advanced Controller	ML625-DIL	**14-816-244**	5760.00
Basic to Advanced Controller Upgrade Kit	61500-02	**14-816-288**	523.50
Custom Programmer Kit (compatible with .Net 2.0)	61500-03	**14-816-289**	210.00

Hamilton™ Company Microlab™ 600 Diluter/Dispenser System Accessories

For use with the Microlab 600 Diluter/Dispenser

14-816-251

Description	Mfr. No.	Cat. No.	Each
Hand Probes, Foot Switch, and Disposable Tips			
Concorde CT Hand Probe	61401-01	**14-816-249**	167.40
Dual Push Button Hand Probe	62541-01	**14-816-251**	594.00
Disposable Tip Hand Probe 1–35µL	62539-01	**14-816-252**	425.50
Disposable Tip Hand Probe 1–125µL	62540-01	**14-816-253**	551.00
300µL Disposable Tips Racked (5 racks of 96)	9766-01	**14-816-255**	53.00
Large Volume Disposable Tip Hand Probe (5mL)	62575-01	**14-816-256**	689.01
5mL Disposable Tips (250/pk)	75702	**14-816-257**	28.10
Foot Switch	62576-01	**14-816-258**	108.00
Universal Valve & Accessories			
Left Valve Assembly	60676-01	**14-816-290**	162.00
Right Valve Assembly	60675-01	**14-816-291**	162.00
Valve Cross Tube Assembly	61498-01	**14-816-292**	20.91
Valve Plugs	61729-01	**14-816-293**	6.27
Miscellaneous Accessories			
Tubing Clips (5/pk)	88990	**14-816-294**	36.60
Accessory Holder & Tubing Wire Stand	61710-01	**14-816-295**	128.10
Power Supply & Power Cords			
Power Cord; Japan	3892-04	**14-816-286**	35.90

ACCESSORIES

Hamilton™ Company Microlab™ 600 Diluter/Dispenser System Accessories – Bubble Free Prime (BFP) Syringes

For use with MICROLAB 600 Diluter/Dispenser

BFP Syringe

Syringes have a conical plunger tip that extends through the threaded termination and into the valve. This unique design expels the air from the syringe and valve decreasing the number of priming cycles required.

Size	Optimal Range	Mfr. No.	Cat. No.	Each
10µL	1 to 10µL	59000-05	**14-816-269**	137.00
25µL	2.5 to 25µL	59000-10	**14-816-270**	108.10
50µL	5 to 50µL	59000-15	**14-816-271**	109.60
100µL	10 to 100µL	59000-20	**14-816-272**	109.60
250µL	25 to 250µL	59000-25	**14-816-273**	109.60
500µL	50 to 500µL	59000-30	**14-816-274**	109.60
1.0mL	100µL to 1.0mL	59000-35	**14-816-275**	109.60
2.5mL	250µL to 2.5mL	59000-40	**14-816-276**	120.50
5.0mL	500µL to 5.0mL	59000-45	**14-816-277**	120.50
10.0mL	1 to 10.0mL	59000-50	**14-816-278**	120.60
25.0mL	2.5 to 25.0mL	59000-55	**14-816-279**	175.30
50.0mL	5 to 50.0mL	59000-60	**14-816-280**	241.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Dissecting

Scalpels

Fisherbrand® Single-Use Scalpels

Surgical quality — also ideal for student or general lab use

- Stainless-steel blade attached to plastic handle
- Sterile, individually packaged
- Plastic guard protects cutting edge and prevents package puncture

Includes Blade Size	Cat. No.	Pack of 20	Case of 50 Packs
10	**08-927-5A**	88.27	3413.80
11	**08-927-5B**	83.43	3262.30
15	**08-927-5C**	88.27	3434.00
21	**08-927-5D**	86.76	3393.60

Fisherbrand® Stainless-Steel Blades for Dissecting Knife Handles

Exceptionally strong and uniformly sharp

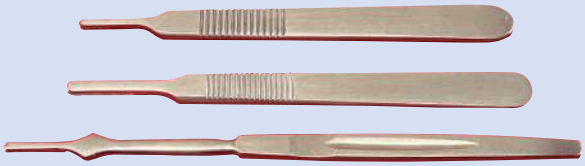
08-916-5A, -5B, -5C, -5D

- Surgical quality
- Sterile
- Individually foil-wrapped

Size	Length	Cat. No.	Pack of 100	Case of 100 Packs
Blades for sizes 3, 5, 7 handles				
10	1.56" (4cm)	**08-916-5A**	242.40	19,836.40
11	1.56" (4cm)	**08-916-5B**	271.69	22,270.50
15	1.37" (3.5cm)	**08-916-5D**	258.56	21,139.30
Blades for sizes 4, 6 handles				
20	1.56" (4cm)	**08-918-5A**	241.90	19,836.40
21	1.94" (5cm)	**08-918-5B**	230.79	18,917.30
22	2.18" (5.5cm)	**08-918-5C**	231.80	18,917.30
23	1.75" (4.5cm)	**08-918-5D**	245.00	----

Fisherbrand® Disposable-Blade Dissecting Knife Handles

Smooth, tapered back end serves as blunt probe



08-913-5, 08-917-5

Reusable handles in a choice of styles sold separately from interchangeable blades (see Fisherbrand Stainless-Steel Blades). Stainless-steel handles scientifically shaped and balanced for delicate dissecting and surgical use.

- Blades slide on smoothly and securely
- Passivated
- Fully autoclavable and sterilizable
- Snag-free
- Use blade sizes 10, 11, 12, 15 with handle sizes 3 and 7
- Use blade sizes 20, 21, 22, 23 with handle size 4

Size	Description	Length	Cat. No.	Each
3	Flat with patterned grip	4.87" (12.4cm)	**08-913-5**	21.15
4	Flat with patterned grip	5.28" (13.4cm)	**08-917-5**	23.90
7	Slender, contoured	6.31" (16cm)	**08-914-5**	38.75

Bard-Parker™ Carbon Steel Blade with Rib-Back™ Design

Surgical carbon steel, ribbed for extra rigidity

08-918E

- Convex cutting edge
- 2.37" long (6cm)
- Nonsterile
- Fits No. 8 handle only
- Individually wrapped

Size	Mfr. No.	Cat. No.	Case of 150
60	371340	**08-918E**	335.00

Instruments

Integra™ Miltex™ Sterile Safety Scalpels

Stainless steel, razor-sharp cutting edge for superior cutting and clean incisions

12-460-458

- Sterile
- Stainless-steel, razor-sharp cutting edge
- Metric ruler on each scalpel
- Individually packaged

Scalpel Description	Mfr. No.	Cat. No.	Pack of 10
Size 10	4-510	**12-460-458**	69.60
Size 15	4-515	**12-460-460**	69.60
Size 22	4-522	**12-460-462**	69.60

Integra™ Miltex™ Sterile Standard Scalpels

Stainless steel, razor-sharp cutting edge for superior cutting and clean incisions

12-460-451

- Sterile
- Stainless steel, razor-sharp cutting edge
- Safety sleeve for blade
- Individually packaged

Blade Size	Mfr. No.	Cat. No.	Pack of 10
10	4-410	**12-460-451**	27.90
11	4-411	**12-460-452**	27.90
15	4-415	**12-460-453**	27.90
21	4-421	**12-460-455**	27.90
22	4-422	**12-460-456**	27.90

ON THE WEB...

Looking for more dissecting implements?

Visit www.fishersci.com and search for Dissecting

Integra™ Miltex™ Sterile Surgical Blades

Single-use blades for convenience

12-460-440

- Sterile
- Razor-sharp cutting edge
- Sizes clearly marked on each blade
- Individually packaged

Size	Mfr. No.	Cat. No.	Pack of 100
Carbon Steel			
No. 10	4-110	**12-460-440**	130.10
No. 11	4-111	**12-460-441**	130.00
No. 22	4-122	**12-460-445**	130.10
Stainless Steel			
No. 22	4-322	**12-460-449**	130.10

Integra™ Miltex™ Mallet

Solid stainless steel

- Head weight: 16 oz. (454g)

12-460-379

Mfr. No.	Cat. No.	Each
27-660	**12-460-379**	475.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Vials and Closures

Fisherbrand® Drosophila Products

Straight wall design minimizes the dislodging of food; provides more efficient racking, filling and plugging

Available in clear polystyrene, translucent and flexible polypropylene, and virtually unbreakable K-resin™. These vials feature a flat bottom, straight wall design for convenient racking, filling and stacking. Available bulk packaged or in a convenient, 10 × 10 tray pack configuration.

AS-519

Polypropylene Vials

- Translucent and flexible
- Autoclavable

Polystyrene Vials

- Excellent clarity for optimal visibility
- Nonautoclavable

K-Resin Vials

- Highly flexible, virtually unbreakable
- Nonautoclavable

Standard-Packed Glass Shell Vials

- Type 1, N-51A borosilicate glass
- Securely packed in cardboard trays with individual vial dividers

Bulk- and Tray-Packed Shell Vials

- Available in narrow- or wide-mouth styles
- Constructed from polystyrene, K-Resin or polypropylene
- K-Resin and polypropylene vials are virtually unbreakable, scratch and mar resistant; polystyrene and K-Resin vials have glass-like clarity
- Polypropylene vials are autoclavable; polystyrene and K-Resin are nonautoclavable

ORDERING INFORMATION:
Bulk-packed vials are layered 500 per case and oriented with all open ends facing one way. Tray-packed vials are shrink-wrapped in a 10 × 10" (25 × 25cm) row configuration with dividers between vials.

Outside Dia. × H	Mouth Styles	Material	Cat. No.	Case of 500
Tray-Packed				
25 × 95mm	Narrow	K-Resin	**AS-508**	121.69
28.5 × 95mm	Wide	K-Resin	**AS-510**	123.40
25 × 95mm	Narrow	Polypropylene	**AS-514**	89.50
28.5 × 95mm	Wide	Polypropylene	**AS-512**	92.70
25 × 95mm	Narrow	Polystyrene	**AS-516**	93.30
28.5 × 95mm	Wide	Polystyrene	**AS-520**	98.10
Bulk-Packed				
25 × 95mm	Narrow	K-Resin	**AS-509**	98.66
28.5 × 95mm	Wide	K-Resin	**AS-511**	101.50
25 × 95mm	Narrow	Polypropylene	**AS-507**	69.90
28.5 × 95mm	Wide	Polypropylene	**AS-513**	72.90
25 × 95mm	Narrow	Polystyrene	**AS-515**	72.60
28.5 × 95mm	Wide	Polystyrene	**AS-519**	76.10

Fisherbrand® Stock Bottles

Wide base/narrow top design prevents fly meal from falling out when bottle is turned upside down

Available in transparent, autoclavable polypropylene and non autoclavable polyethylene. The bottle openings are designed to accept standard paper lids, foam plugs, cotton balls and BuzzPlugs™.

Fisherbrand Stock Bottles

Round-Bottom Bottles

- Polypropylene
- Single use or autoclave for reuse

Square-Bottom Bottles

- Available in polypropylene or polyethylene
- Polypropylene provides good transparency and can be autoclaved for reuse or disposed of after single use

Description	Capacity	Cat. No.	Case of
Round standard bottle	6 oz. (177mL)	**AS-115**	500/148.30
Round bottle with indentation	8 oz. (237mL)	**AS-117**	250/91.30
Square bottom polypropylene bottle	6 oz. (177mL)	**AS-355**	500/143.70
Square polyethylene bottle	6 oz. (177mL)	**AS-359**	500/153.00

Applied Scientific Drosophila Products, BuzzPlugs™ Vial and Bottle Closures

Nonshedding, dense weave of nontoxic cellulose acetate minimizes evaporation, keeps food fresh longer

AS-27 Series

- Superior barrier to mite infestation
- Exact fit with narrow 0.9" (25mm) or wide 1.1" (28.5mm) dia. plastic shell vials or standard (≈24mm dia.) glass vials or plastic stock bottles
- Stretch yet maintain tight fit after repeated removal and closing
- Flat surface accepts marking pen

For use with	Cat. No.	Case of 1000
Glass vials	**AS-271**	161.00
Narrow-diameter plastic vials	**AS-273**	178.60
Wide-diameter plastic vials	**AS-275**	135.80
Plastic stock bottles	**AS-277**	212.50

Before You Buy **pH Meters**

High Quality, Feature-Rich, User-Friendly

Measure pH using a wide range of Fisher Scientific™ accumet™ products from powerful benchtop meters to simple handhelds.

- **Benchtop or Portable:** XL & AB benchtops are designed for research & accuracy. Each benchtop includes an integral stand for hands free operation and is available with NIST certification. AP portables are waterproof, rugged and battery powered for measurements anywhere you go.
- **Kits or Meter only:** Kits include the accumet electrode(s) you need at a great price. Alternatively, select a specialty accumet electrode that suits your application with a flexible meter only option instead. Portable kits include a durable carry case.

Features To Look For:

- Get more done with multi-parameter instruments. Our expanded selection of accumet benchtop meters includes several models that can measure more than just pH. How much more is up to you. Display one or multiple parameters at a time. View up to 4 channels simultaneously with the XL600. Multi-parameter instruments can save you money, time and valuable bench space. Use the 13-620-BSP electrode with our "Plug & Stir" benchtop technology, and use your pH meter for stirring instead of your old stir plate.
- **accumet electrodes & accessories help get the most out of your meter!** Use electrodes based on your sample type and conditions. Good news — there are Fisher Scientific accumet electrodes to meet almost any application. Innovative products like accuCap™, accu•pHast™ R, and accuTupH™ XL electrodes improve performance in tough applications. Available in pH, ORP, ion, conductivity, temperature and dissolved oxygen parameters.
- Ask your Fisher representative about our free 30-day trial and our pH Mechanic programs, too! For more details on accumet meters, visit **www.fishersci.com/accumet.**

Model	XL600	XL500	XL250	XL200	AB200
pH-mV (BNC) / Temp	✓✓	✓✓	✓✓	✓	✓
Ion Selective-mV (BNC) / Temp	✓✓	✓✓	✓✓		
Conductivity /TDS / Resistivity / Salinity / Temp	✓	✓		✓	✓
Dissolved Oxygen / Temp	✓				
Color Touch Screen	✓	✓	✓	✓	
Stirring Probe Ports	2	2	2	2	1

- *✓✓ = dual channel capacity*

Electrochemistry

Meters/Benchtop

Fisher Scientific™ accumet™ XL Benchtop Meters

High-quality, user-friendly and cost-effective

XL600

Fisher Scientific accumet XL benchtop meters bring advanced features with simplicity to the laboratory.

- High-resolution color display provides crystal clear data from wide viewing angles and at a distance
- Improved touch-screen with glass/glass sensitivity
- Optional stirring probe accessory provides mixing at five speeds without a stir plate; connect one or two stirring probes
- RJ45 Ethernet/Internet port—connect to Local Area Network (LAN) or Internet, print data to a network USB host connectivity for peripherals such as keyboard, mouse or other USB device
- Every instrument includes one electrode arm for use in three different positions; Every instrument can accept another electrode arm to perform measurements, and from either or both sides
- Allow up to 10 password protected ID's; each includes memory to store 2000 data points
- Calibrate with custom pH buffer values or automatically from one of six preset buffer groups including pure water buffer group
- 100-240V power supply includes multi-plugs for use around the globe
- Wall-mounting back panel creates additional bench space
- DO mode calculates five-day BOD testing, OUR and SOUR
- Salinity correction and automatic barometric pressure compensation with built-in barometer enhance accuracy
- Includes measurement of meter accuracy at five test points across pH range and mV range

WARRANTY: Meters: Three years parts and labor; Electrodes (included with meter-kits): One year parts and labor

CERTIFICATIONS: Select models available with Certificate of NIST Traceability. Testing performed by accredited laboratory; includes NIST-Traceable certificate.

Model	Includes	Cat. No.	Each
Without NIST-traceable pH Certificate			
XL150 pH Meter	Meter, electrode arm	**13-636-XL150A**	1475.00
XL150 pH Kit	Meter, TRIS compatible accuTupH™ pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm	**13-636-XL150**	1629.00
XL200 pH/Conductivity Meter	Meter, electrode arm	**13-636-XL200A**	1889.00
XL200 pH/Conductivity Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp. probe (13-620-100), electrode arm	**13-636-XL200**	2154.00
XL250 Dual pH/ISE Meter	Meter, electrode arm	**13-636-XL250A**	1828.00
XL250 Dual pH/ISE Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm	**13-636-XL250**	1991.00
XL250 Dual pH/ISE Fluoride Kit	Meter, 13-620-629 fluoride electrode, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm	**13-636-XL250F**	2236.00
XL250 Dual pH/ISE Ammonia Kit	Meter, 13-620-509 ammonia electrode, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm	**13-636-XL250N**	2644.00
XL500 Dual pH/ISE/ Conductivity Meter	Meter, electrode arm	**13-636-XL500A**	2399.00
XL500 Dual pH/ISE/ Conductivity Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp. probe (13-620-100), electrode arm	**13-636-XL500**	2675.00
XL600 Dual pH/ISE/ Conductivity/DO Meter	Meter, electrode arm	**13-636-XL600A**	2849.00
XL600 Dual pH/ISE/ Conductivity/DO Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp. probe (13-620-100), electrode arm	**13-636-XL600**	3063.00
XL600 Dual pH/ISE/ Conductivity/DO Deluxe Kit	Meter, self-stirring BOD probe (13-620-SSP), TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm	**13-636-XL600D**	3767.00
With NIST-traceable Certificate			
XL150 pH Meter	Meter, electrode arm	**XL150ACERT**	1723.63
XL150 pH Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm,	**XL150CERT**	1880.80
XL200 pH/Conductivity Meter	Meter, electrode arm	**XL200ACERT**	2148.00
XL200 pH/Conductivity Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm	**XL200CERT**	2420.41
XL250 Dual pH/ISE Meter	Meter, electrode arm	**XL250ACERT**	2085.13
XL250 Dual pH/ISE Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm	**XL250CERT**	2252.78
XL500 Dual pH/ISE/ Conductivity Meter	Meter, electrode arm	**XL500ACERT**	2671.90
XL500 Dual pH/ISE/ Conductivity Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm	**XL500CERT**	2954.80
XL600 Dual pH/ISE/ Conductivity/DO Meter	Meter, electrode arm	**XL600ACERT**	3237.79
XL600 Dual pH/ISE/ Conductivity/DO Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm	**XL600CERT**	3457.74
XL600 Dual pH/ISE/ Conductivity/DO Deluxe Kit	Meter, self-stirring BOD probe (13-620-SSP), TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), Conductivity/Temp probe (13-620-100), electrode arm	**XL600DCERT**	4180.73

Fisher Scientific™ accumet™ AB Benchtop Meters

Available with ISE and multi-parameter pH/Conductivity capabilities

AB150 pH Meter

Intuitive, simple operation and high accuracy in a compact, affordable meter.

- Optional stirring probe accessory with five speed settings
- Graphic display with adjustable backlight
- Password protection
- 500-point memory — log manually or at intervals
- Help meet ISO, FDA, USDA and EPA quality assurance guidelines
- Includes measurement of meter accuracy at five test points across pH range and mV range

WARRANTY:
Meters: Three years parts and labor; Electrodes (included with meter kits): One year parts and labor

CERTIFICATIONS:
Select models available with Certificate of NIST Traceability. Testing performed by accredited laboratory; includes NIST-Traceable certificate.

Model	Includes	Cat. No.	Each
Without NIST-traceable pH Certificate			
AB150 Meter Only	Meter, Electrode Arm	**13-636-AB150A**	903.00
AB150 Kit	Meter, TRIS Compatible pH/ATC Electrode (13-620-631), Electrode Arm	**13-636-AB150**	1015.00
AB150 BioBasic Kit	Meter, TRIS Compatible accuTupH™ pH Electrode (13-620-183A), ATC Probe (13-620-19), Electrode Arm	**13-636-AB150B**	1117.00
AB200 Meter Only	Meter, Electrode Arm	**13-636-AB200A**	1362.00
AB200 Kit	Meter, TRIS Compatible pH/ATC Electrode (13-620-631), Conductivity/Temp Probe (13-620-100), Electrode Arm	**13-636-AB200**	1566.00
AB250 Meter Only	Meter, Electrode Arm	**13-636-AB250A**	1158.00
AB250 Kit	Meter, TRIS Compatible pH/ATC Electrode (13-620-631), Electrode Arm	**13-636-AB250**	1270.00
With NIST-traceable Certificate			
AB150 Meter Only	Meter, electrode arm	**AB150ACERT**	1084.47
AB150 Kit	Meter, TRIS compatible pH/ATC electrode (13-620-631), electrode arm	**AB150CERT**	1199.73
AB150 BioBasic Kit	Meter, TRIS compatible accuTupH pH electrode (13-620-183A), ATC probe (13-620-19), electrode arm	**AB150BCERT**	1304.51
AB200 Meter Only	Meter, electrode arm	**AB250ACERT**	1346.43
AB200 Meter Only	Meter, electrode arm	**AB200ACERT**	1555.99
AB200 Kit	Meter, TRIS compatible pH/ATC electrode (13-620-631), Conductivity/Temp probe (13-620-100), electrode arm	**AB200CERT**	1817.93

ACCESSORIES

Fisher Scientific™ RS232 Thermal Printer for accumet™ AB and XL Series Benchtop Meters

Convenient and compact

Small Footprint Thermal Printer

- Compact 5.25"L × 3.75"W
- Global power supply for 100/240VAC
- Operating Temperature: 0° to 50°C (41° to 104°F)
- Serial RS-232

13-637-690

ORDERING INFORMATION:
The 13-637-690 printer is compatible with Models XL150, XL200, XL250, XL500, XL600, AB150, AB200, AB250 and AB15P.

The 13-637-680 cable (sold separately) is required to work with the old model accumet AB15P meter.

The 13-637-690 printer is not compatible with the old model accumet meters (Models XL15, XL20, XL25, XL30, XL40, XL50, XL60).

WARRANTY: One year parts and labor (printer only)

Description	Cat. No.	Each
accumet AB/XL-Series Printer, 100-240V	**13-637-690**	823.15

Fisher Scientific™ Optical USB Mouse

For use with any accumet™ XL-series meter

Enables control of accumet XL meter without touching screen, or can be used with laptop or desktop computer.

13-634-692

Description	Cat. No.	Each
Optical USB Mouse	**13-637-692**	20.20

Power Supply for Fisher Scientific™ accumet™ AB and XL Benchtop Meters

Replacement power supply

- For use with accumet benchtop meters models: AB150, AB200, AB250, XL150, XL200, XL250, XL500, XL600 meters
- 100/240 VAC

13-636-104

Description	Cat. No.	Each
Replacement Power Supply for AB150, AB200, AB250, XL150, XL200, XL250, XL500, XL600, 100/240 VAC	**13-636-104**	51.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Orion™ VERSA STAR™ Benchtop Meters

Advanced electrochemistry meter – for now and later

This versatile meter has a large, color graphic LCD display. The informative display shows readings, connections, time, date, sample ID, user ID and calibration information.

VERSA STAR Meter

- Select from five modules to customize the four channels as you need it – it's versatile for you to configure how you need it for now or for later
- Anyone can use this meter with its plain language screen prompts, soft keys that update for easy selection and a multilanguage interface that supports English, Spanish, French, Italian, German and Chinese
- Nonvolatile memory holds up to 2000 data points with time and date stamp
- Data transfer and updating meter software is easy with two USB and RS232 ports
- Includes data analysis software for transferring stored results or displaying readings in real-time
- Mix samples without a stir plate with direct control for two Orion Star stirrer probes (096019, sold separately)
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Works with almost every AC power source with the included universal power adapter
- IP54-rated housing handles splashes
- Three year meter replacement warranty

pH/Temperature module allows:

- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers
- Fixing of calibration errors without a complete recalibration with calibration editing

Dissolved Oxygen/RDO/Temperature module:

- Takes the worry out of DO probe compatibility – the meter accepts and automatically recognizes Orion polarographic and RDO optical/luminescence-based probes
- Compensates automatically for temperature, salinity with manual input and barometric pressure (automatic or manual)
- Allows for calibration using water-saturated air, air-saturated water, a Winkler titration or zero point

Use with the pH/ISE/Temperature module for:

- All the benefits of the pH module
- Fixing pH/ISE calibration errors without a complete recalibration with calibration editing
- Advanced ISE benefits such as auto-blank, timed end point, linear point-to-point, nonlinear selectable auto-blank, low-concentration range stability, ISE ID and incremental techniques

Conductivity/Temperature module offers:

- Conductivity, TDS, salinity or resistivity capabilities
- Selectable reading reference temperatures of 5°, 10°, 15°, 20° or 25°C with linear, nonlinear, nLFu or EP curve options for conductivity
- Choice of practical salinity or natural sea water curves for salinity readings

Dissolved Oxygen/RDO/Temperature module:

- Takes the worry out of DO probe compatibility – the meter accepts and automatically recognizes Orion polarographic and RDO optical/luminescence-based probes
- Compensates automatically for temperature, salinity with manual input and barometric pressure (automatic or manual)
- Allows for calibration using water-saturated air, air-saturated water, a Winkler titration or zero point

CERTIFICATIONS:
CE, TÜV, FCC Class A limits

Description	Mfr. No.	Cat. No.	Each
Meter without Modules			
Meter	VSTAR00	**13-645-572**	1089.56
pH Meter			
Meter	VSTAR10	**13-645-573**	1304.40
Meter Kit	VSTAR12	**13-645-574**	1759.66
Conductivity Meter			
Meter	VSTAR20	**13-645-575**	1755.25
Meter Kit	VSTAR22	**13-645-576**	2097.27
DO Meter			
Meter	VSTAR30	**13-645-577**	1765.28
Meter Kit	VSTAR32	**13-645-578**	2326.96
pH/ISE Multiparameter Meter			
Meter with One pH/ISE module	VSTAR40A	**13-645-579**	1826.16
Meter Kit, One pH/ISE module	VSTAR40A2	**13-645-580**	2235.39
Meter with Two pH/ISE modules	VSTAR40B	**13-645-581**	2092.16
Meter Kit, Two pH/ISE modules	VSTAR40B2	**13-645-582**	2608.80
pH/Conductivity Multiparameter Meter			
Meter	VSTAR50	**13-645-583**	1846.62
Meter Kit	VSTAR52	**13-645-584**	2347.92
pH/LogR Meter			
Meter	VSTAR80	**13-645-585**	1739.20
Meter Kit	VSTAR82	**13-645-586**	2076.81
pH/ISE/Conductivity/Dissolved Oxygen Multiparameter Meters			
Meter	VSTAR90	**13-645-587**	2757.15
Meter Kit	VSTAR92	**13-645-588**	3984.82
Meter	VSTAR91	**13-645-589**	3677.90
Meter Kit	VSTAR93	**13-645-590**	4905.57

Thermo Scientific™ Orion™ VERSA STAR™ Modules

Advanced electrochemistry meter – for now and later

The informative display shows readings, connections, time, date, sample ID, user ID and calibration information.

- Select from five modules to customize the four channels as you need it
- Plain language screen prompts, soft keys for easy selection and a multilanguage interface
- Nonvolatile memory holds up to 2000 data points with time and date stamp
- Data transfer and updating meter software is easy with two USB and RS232 ports
- Includes data analysis software for transferring stored results or displaying readings in real-time
- Mix samples without a stir plate with direct control for two Orion Star stirrer probes (096019, sold separately)
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Included universal power adapter
- IP54-rated housing handles splashes
- Three-year meter replacement warranty

Conductivity/Temperature module offers:

- Conductivity, TDS, salinity or resistivity capabilities
- Selectable reading reference temperatures of 5°, 10°, 15°, 20° or 25°C with linear, nonlinear, nLFu or EP curve options for conductivity
- Choice of practical salinity or natural sea water curves for salinity readings

Dissolved Oxygen/RDO/Temperature module:

- Takes the worry out of DO probe compatibility – the meter accepts and automatically recognizes Orion polarographic and RDO optical/luminescence-based probes
- Compensates automatically for temperature, salinity with manual input and barometric pressure (automatic or manual)
- Allows for calibration using water-saturated air, air-saturated water, a Winkler titration or zero point

Versa Star Modules

Use with the pH/ISE/Temperature module for:

- All the benefits of the pH module
- Fixing pH/ISE calibration errors without a complete recalibration with calibration editing
- Advanced ISE benefits such as auto-blank, timed end point, linear point-to-point, nonlinear selectable auto-blank, low-concentration range stability, ISE ID and incremental techniques

pH/Temperature module allows:

- Up to five point pH calibration with automatic recognition for USA/NIST and DIN buffers
- Fixing of calibration errors without a complete recalibration with calibration editing

Module featuring LogR technology:

- Includes all of the features of the pH module with the added benefits of the most advanced electrode diagnostics
- No temperature sensor needed to get temperature compensated pH readings

CERTIFICATIONS: CE, TÜV, FCC Class A limits

Description	Mfr. No.	Cat. No.	Each
pH Module	VSTAR-PH	**13-645-591**	557.57
Conductivity Module	VSTARCND	**13-645-592**	900.29
RDO/DO Module	VSTAR-RD	**13-645-593**	882.64
pH/ISE Multiparameter Module	VSTAR-ISE	**13-645-594**	1033.09
pH with LogR Module	VSTAR-LR	**13-645-595**	930.78

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Thermo Scientific™ Orion™ DUAL STAR™ Meter

Combines the best of the Orion 720A+ and 920A+ meters with the advantages of the Orion Star Plus meters. It displays the results of both input channels simultaneously

13-642-780

- Dual channel with simultaneous displayed measurements
- Low concentration range reading stability
- Single and double known addition and subtraction incremental methods
- Five language choices: English, Spanish, French, German and Italian
- Thermo Scientific Orion EZ Startup™ for quick and easy meter setup
- Thermo Scientific Orion SMART STABILITY™ and SMART AVERAGING™ for accurate and fast results
- Meter prompts and shortcut keys
- E_H ORP calibration capability
- 10 methods stored per channel — retains calibrations among multiple electrodes
- Star stirrer probe (sold separately) controlled directly from the meter
- Autosampler (sold separately) compatibility
- GLP-compliant benefits include 1000-point datalogging with time and date stamping, calibration alarm and calibration information with point-by-point and average electrode slope data. When transferring data through the RS-232 or USB ports, the meter is able to send a defined data range or all the data.

APPLICATIONS: pH, ISE, mV/Rel. mV/ORP, Temperature

INCLUDES:
Orion DUAL STAR Meter Only 2115000 option includes quick start guide, swing arm electrode stand, RS-232 and mini-USB to USB cables, stainless-steel ATC Probe, universal power adapter and manual.

Orion DUAL STAR Meter/Electrode 2115101 option includes quick start guide, swing arm electrode stand, RS-232 and mini-USB to USB cables, stainless-steel ATC Probe, universal power adapter and manual, plus Ross™ Ultra Electrode 8102BNUWP.

Orion DUAL STAR Meter/Electrode 2115102 option includes quick start guide, swing arm electrode stand, RS-232 and mini-USB to USB cables, stainless-steel ATC Probe, universal power adapter and manual, plus Ross Ultra pH/ATC Triode™ refillable electrode 8157BNUMD.

Orion DUAL STAR Meter Kit 2115001 option includes quick start guide, electrode stand, RS-232 and mini-USB to USB cables, stainless-steel ATC Probe, universal power adapter and manual, plus Ross Ultra electrode 8102BNUWP and pint bottles of 4, 7 and 10 buffer and Ross electrode storage solution.

WARRANTY: 36-month replacement

COMPLIANCE:
TÜV, FCC Class A, RoHS, China RoHS; also meets GLP Standards

CERTIFICATIONS: CE, CSA

Packaging Option	Mfr. No.	Cat. No.	Each
Meter Only	2115000	**13-642-780**	1615.33
Meter/Probe	2115101	**13-642-781**	1916.19
Meter/Probe	2115102	**13-641-291**	1971.87
Meter Kit	2115001	**13-642-782**	1971.90

Thermo Scientific™ Orion Star™ A200 Benchtop Meters

Durability and dependability make it ideal for every sample, every day

13-645-519

- Plain language screen prompts, soft keys that update for easy selection and a multilanguage interface that supports English, Spanish, French, Italian, German and Chinese
- AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers
- Fix calibration errors without a complete recalibration with calibration editing
- Nonvolatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software
- Mix samples without a stir plate with direct control of the Orion Star stirrer probe (096019, sold separately)
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Work with almost every AC power source with the included universal power adapter, or use four AA batteries (sold separately) to run the meter on DC power
- IP54-rated housing handles splashes and is wall-mountable if table space is a problem

INCLUDES:
Orion Star A211 pH Benchtop Meter, Cat. No. 13-645-519, includes the electrode arm with redesigned holder and universal power adapter.

Orion Star A211 pH Benchtop Meter Kit with ROSS Triode, Cat. No. 13-645-521, includes 8302BNUMD Orion ROSS Triode 3-in-1 pH/ATC probe; 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle); electrode arm with redesigned holder and universal power adapter

Orion Star A211 pH Benchtop Meter Kit with pH/ATC Triode Electrode, Cat. No. 13-645-611, includes 8157BNUMD Orion ROSS Ultra pH/ATC Triode electrode with epoxy body, refillable; 810199 All-in-One pH Buffer Kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; and pH electrode storage bottle); electrode arm with redesigned holder and universal power adapter

CERTIFICATIONS:
CE, TÜV, FCC Class A limits

Thermo Scientific™ Orion Star™ A211 pH Benchtop Meter

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA2110	**13-645-519**	806.17
Meter Kit with glass-body ROSS Triode	STARA2115	**13-645-521**	1089.56
Meter Kit with epoxy-body ROSS Triode	STARA2116	**13-645-611**	1071.00

Thermo Scientific™ Orion Star™ A212 Conductivity Benchtop Meter

- Backlit graphic LCD display
- Informative display shows conductivity/ TDS/salinity/resistivity and temperature along with time, date, sample ID, user ID and calibration information
- For advanced users, features such as stability and averaging choices provide additional options
- Selectable cell constant allows for use with 2- or 4-cell conductivity cells
- For accurate results, selectable reading reference temperatures of 5˚, 10˚, 15˚, 20˚ or 25˚C with linear, nonlinear, nLFu or EP curve options
- Choice of practical salinity or natural sea water curves for salinity readings
- Linear or ISO/EN 27888 curves for TDS
- Three year meter replacement warranty

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA2120	**13-645-525**	1069.10
Meter Kit	STARA2125	**13-645-527**	1335.09
Meter Kit for UltraPure Water	STARA2126	**13-645-528**	1381.13

Thermo Scientific™ Orion Star™ A213 Dissolved Oxygen Benchtop Meter

- Informative display shows dissolved oxygen in percent saturation or concentration and temperature along with time, date, sample ID, user ID and calibration information
- Stability and averaging options and flash expansion through the USB provide additional options
- No need to worry about DO probe compatibility – the meter accepts and automatically recognizes Orion polarographic and RDO optical/ luminescence-based probes
- Accurate results are easy with automatic temperature, manual salinity and your choice of automatic or manual barometric pressure compensation
- Calibrate using water-saturated air, air-saturated water, a Winkler titration or zero point calibration
- For faster BOD readings, control the Orion AUTO-STIR™ polarographic DO probe (086030MD, sold separately) directly from the meter

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA2130	**13-645-532**	1317.70
Meter Kit	STARA2135	**13-645-534**	1988.83
Meter Kit with self-stirring BOD probe	STARA2136	**13-645-535**	2276.31

Thermo Scientific™ Orion Star™ A214 pH/ISE Benchtop Multiparameter Meters

- Informative display shows pH/mV/RmV/ISE results and temperature along with electrode status, time, date, sample ID, user ID and calibration points
- For advanced users, features such as stability and averaging choices provide additional options

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA2140	**13-645-539**	1263.48
Meter Kit for general pH/ISE	STARA2145	**13-645-541**	1780.12
Meter Kit for pH/ISE - Ammonia	STARA2146	**13-645-542**	2404.19
Meter Kit for pH/ISE - Fluoride	STARA2147	**13-645-543**	2580.16
Meter Kit for pH/ISE - Sodium	STARA2148	**13-645-544**	2209.81

Thermo Scientific™ Orion Star™ A215 pH/ Conductivity Benchtop Multiparameter Meter

- Informative display shows individual pH/mV/RmV or conductivity/ TDS/salinity/ resistivity results with temperature, or all results at once
- Additional helpful information includes electrode status, time, date, sample ID, user ID and calibration
- For advanced users, features such as stability and averaging choices provide additional options
- Selectable cell constant allows for use with 2- or 4-cell conductivity cells
- For accurate conductivity results, selectable reading reference temperatures of 5°, 10°, 15°, 20° or 25°C with linear, nonlinear, nLFu or EP curve options
- Choice of practical salinity or natural sea water curves for salinity readings

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA2150	**13-645-545**	1345.32
Meter Kit	STARA2155	**13-645-547**	1938.70

Thermo Scientific™ Orion Star™ A216 pH/Dissolved Oxygen Benchtop Multiparameter Meters

- Informative display shows individual pH/mV/RmV result, dissolved oxygen in percent saturation or concentration results with temperature, or all results at once

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA2160	**13-645-548**	1478.32
Meter Kit	STARA2165	**13-645-550**	2588.34

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Thermo Scientific™ Orion Star™ A100 Series Benchtop Meters

Meters make it easy and affordable to take simple, accurate pH measurements

- Large, informative screen clearly shows the main information, including parameter reading, temperature, meter mode, calibration information and power source
- AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Up to three point pH calibration
- Automatic recognition of USA/NIST and DIN buffers
- Easily recall calibration slope data for procedure checks
- Nonvolatile memory holds up to 50 data points
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- The IP54-rated housing can handle splashes and can be wall-mounted if table space is a problem

WARRANTY:
Three-year meter replacement warranty

CERTIFICATIONS:
CE, TÜV, FCC Class A limits

13-645-501

Thermo Scientific™ Orion Star™ A111 pH Benchtop Meter

- Icons provide quick updates on battery life, electrode status and calibration information

Description	Mfr. No.	Cat. No.	Each
Meter only	STARA1110	**13-645-501**	521.76
Meter Kit with Orion Triode 3-in-1 pH/ATC probe	STARA1115	**13-645-503**	772.41
Meter Kit with combination double-junction refillable pH electrode with epoxy body and 927007MD stainless steel ATC probe	STARA1116	**13-645-610**	791.00

Thermo Scientific™ Orion Star™ A112 Conductivity Benchtop Meter

- Selectable reading reference temperatures of 20°C or 25°C for an accurate result
- A large LCD displays conductivity or TDS readings along with temperature

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA1120	**13-645-507**	782.34
Meter Kit	STARA1125	**13-645-509**	1061.94

Thermo Scientific™ Orion Star™ A113 Dissolved Oxygen Benchtop Meter

- Automatic temperature, manual salinity input and manual barometric pressure compensation for an accurate result
- Two calibration options to meet your requirements: water-saturated air method or a Winkler titration
- Accepts Thermo Scientific Orion polarographic dissolved oxygen probes

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA1130	**13-645-513**	827.48
Meter Kit	STARA1135	**13-645-515**	1483.44

ACCESSORIES

Thermo Scientific™ Orion Star™ A-series Hardside Carrying Case

13-645-596

Description	Mfr. No.	Cat. No.	Each
Orion Star A-series hardside carrying case	STARACS	**13-645-596**	135.41

Thermo Scientific™ Orion Star™ A-series Electrode Arm

Description	Mfr. No.	Cat. No.	Each
Orion Star A-series electrode arm	STARA-BEA	**13-645-597**	155.47

Thermo Scientific™ Orion™ Weighted Base

13-645-598

Description	Mfr. No.	Cat. No.	Each
Weighted base	STARAHB	**13-645-598**	52.16

Thermo Scientific™ Orion Star™ A Protective Armor

13-645-599

Description	Mfr. No.	Cat. No.	Each
Protective Armor for Orion Star A-series portable meters	STARA-AR	**13-645-599**	98.29

Oakton™ 700 Series Benchtop Meter

Compact, space-saving design with a larger, easier-to-read display

- Low cost plus high performance
- Large dual display
- Built-in memory function
- Hold function
- Available with built-in electrode stand
- Selectable manual or Automatic Temperature Compensation

13-620-452

Description	Mfr. No.	Cat. No.	Each
CON 700 meter with conductivity/temp probe (35608-74 K=1.0) , and electrode stand	WD-35411-00	**13-620-452**	654.14
pH 700 meter and universal power supply/adapters	WD-35419-00	**13-620-461**	464.29
pH 700 meter, "All-in-One" temperature/single-junction pH electrode and universal power supply/adapters	WD-35419-03	**13-620-462**	528.89
PC 700 meter with pH electrode, conductivity/temp probe and electrode stand	WD-35413-00	**13-620-464**	1014.70

Oakton™ 2700 Series Benchtop Multiparameter Meters

Compact benchtop meters to measure pH/mV/Ion/Temperature/Conductivity/TDS/Salinity/Resistivity

- Up to 500-point memory with date-time stamp for GLP
- Output data to either printer or PC
- Water-resistant membrane keypad with password protection for both set-up and calibration
- Multiple pH slopes and offset display for quick, easy electrode diagnosis
- Electrode holder can be mounted on either side of the meter
- Toggle between pH, mV or ion, conductivity, TDS, salinity and resistivity
- Measure conductivity, TDS, salinity and resistivity
- Feature auto-standardization, auto-calibration, and auto-ranging
- Accept either 2-cell or 4-cell electrodes

WARRANTY: Three years

INCLUDES: pH 2700 and Ion 2700 meter kit includes pH electrode, ATC probe, electrode stand, and software pH 2700 and Ion 2700 meter includes electrode stand and software PC 2700 meter kit includes pH electrode, conductivity/temp. probe and electrode stand CON 2700 meter kit includes 4-cell, K=1 conductivity/temp. probe and electrode stand

13-620-453

Description	Mfr. No.	Cat. No.	Each
pH 2700 Meter Kit	WD-35420-20	**13-620-451**	820.01
pH 2700 Meter	WD-35420-22	**13-300-106**	705.16
Ion 2700 Meter Kit	WD-35421-00	**13-300-107**	1169.86
Ion 2700 Meter	WD-35421-02	**13-620-450**	1032.71
PC 2700 Meter Kit	WD-35414-00	**13-620-454**	1361.30
CON 2700 Meter Kit	WD-35412-00	**13-620-453**	909.40

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METTLER TOLEDO™ SevenExcellence™ Meters

Flexible due to various conductivity modes, units and temperature correction possibilities

Intuitive touchscreen operation and high measurement performance combined with a complete security package for safe results and compliance.

01-910-904

- Large 7" color display and intuitive menu guidance in 10 languages
- Flexible method concept for high reproducibility and security
- Extra security thanks to sophisticated user management and Intelligent Sensor Management (ISM)
- Integrated interfaces (USB, RS232 and Ethernet) for data exchange
- Comprehensive service package including IQ/OQ/PQ

Description	Mfr. No.	Cat. No.	Each
Conductivity Meter			
S700-Basic	30046244	**01-910-904**	2149.38
S700-Kit	30046245	**01-910-905**	2493.69
S700-Trace	30046246	**01-910-906**	3651.85
pH/Ion Meter			
S500-Basic	30046246	**01-910-907**	1982.43
S500-Kit version	30046249	**01-910-908**	2295.45
S500-Biotechnology kit version	30046250	**01-910-909**	2321.53
S500-Fluoride kit version	30046251	**01-910-910**	2712.81
pH/Conductivity Meter			
S470-Basic	30046252	**01-910-911**	2191.11
S470-Kit version	30046253	**01-910-912**	2817.15
S470-USP/EP kit version	30046254	**01-910-913**	3130.16
S470-Bio	64091338	**01-910-915**	3082.24
pH/Conductivity/Ion Meter			
S475-Basic	30046255	**01-910-914**	2764.98
pH/mV Meter			
S400-Basic	30046240	**01-910-900**	1617.25
S400-Kit	30046241	**01-910-901**	1852.01
S400-Bio	30046242	**01-910-902**	1930.26
S400-ISFET	30046243	**01-910-903**	2243.28

ACCESSORIES

METTLER TOLEDO™ SevenExcellence™ Meter Accessories

For use with SevenExcellence pH/mV and conductivity meters

- Semi-transparent cover for the SevenExcellence meter that covers the expansion units
- Protective film that covers the screen of the SevenExcellence meter (2 pieces)

Description	Mfr. No.	Cat. No.	Each
Semi-transparent cover	30041154	**01-911-604**	47.00
Protective film for display	30041155	**01-911-605**	26.00

METTLER TOLEDO™ uMix™ Magnetic Stirrer

Provides an extra degree of precision for your applications

- Powered and controlled externally, the magnetic stirrer allows for enhanced reproducibility of results and higher efficiency in the measuring process
- The magnetic stirrer can be combined with either the SevenCompact™ pH/Ion S220, the SevenCompact Conductivity S230 or the multiparameter SevenExcellence™ benchtop meters

Description	Mfr. No.	Cat. No.	Each
uMix Magnetic Stirrer, 400 to 1200rpm	30040000	**01-911-606**	140.00

METTLER TOLEDO™ SevenExcellence™ Expansion Modules

The modular design of SevenExcellence allows you to expand your instrument with additional measurement parameters for future needs at any time

Just add the new expansion unit, switch on the instrument and the new expansion unit is automatically recognized and ready to use. SevenExcellence fits in total three expansion units in any composition.

Description	Mfr. No.	Cat. No.	Each
SevenExcellence pH/mV Module	30034472	**01-911-600**	660.00
SevenExcellence Conductivity Module	30034473	**01-911-601**	875.00
SevenExcellence pH/Ion Module	30034471	**01-911-602**	1020.00

METTLER TOLEDO™ SevenMulti™ Meters

USP-compliant meter with flexible, modular design measures conductivity, resistivity, TDS and salinity

Advanced conductivity meter for more complex laboratory applications. Designed for expansion, with modular color-coded pH, ISE, ISFET units for enhanced capabilities; contact your Fisher Scientific™ Customer Service Representative for details.

- Simultaneously displays measurement and temperature
- Stores last 10 calibrations, 10 methods, 1000 measurement/temperature data pairs
- Meter offers auto read, manual read and timed read with autoranging resolution
- Automatic or timed endpoints; high/low alarms alert operator
- Takes readings at preset intervals, with values output to PC/printer/memory at defined periods

Versatile Display

- Back-lit display has online user help, GLP menus and five languages
- Graphically presents calibration curve and displays last 25 readings with high/low endpoints
- Automatically indicates when reading has stabilized; freeze display functions are manually controlled

Wide-ranging Temperature Compensation

- Manual (-30° to +130°C) or automatic (-5° to +130°C) temperature compensation
- Temperature reference is selectable (20°C or 25°C) with choice of linear, nonlinear or no correction

Automated Calibration

- One-point calibration: choose auto buffer recognition and prompting or manual buffer selection
- Recognizes 84µS/cm, 1413µS/cm, 12.88mS/cm or custom (standard saturated NaCl)
- Output and edit cell constant after calibration
- Operator-defined calibration reminder — simply input number of use or time

Documentation plus Security

- Operator can key in alphanumeric input of meter ID, user name, sample ID, sensor ID and serial number
- Password protection security
- Self-diagnostics ensure meter is operating properly
- Power loss memory protection for worry-free data storage

Excellent Connectivity

- Mini-DIN, 2mm pin and ATC inputs
- Enhanced communication through bidirectional RS-232 interface supports barcode reader for sample or sensor ID

ORDERING INFORMATION:
Dimensions: 7.5 × 9.5 × 2.5"H (19 × 24 × 6.5cm). Electrical requirements: 120V 50/60 Hz. Operates on 9V power supply. METTLER TOLEDO Portable and Multiparameter Meters with Conductivity mode available; see Conductivity Metes, Portable and pH/pX section.

01-913-803

INCLUDES:
Meter Only option comes with the 9V power supply, electrode holder and operating instructions.

Meter Kit option includes meter, 9V power supply, electrode holder, operating instructions, InLab™ 730 conductivity probe (01-911-258) and two 12.88mS/cm and two 1413µS/cm 20mL conductivity calibration sachets.

WARRANTY:
Two-year warranty on meter; one-year warranty on probe.

COMPLIANCE:
Conductivity measurements compliant to USP 26 are possible with the InLab 740 ultralow conductivity probe (01-920-143, sold separately).

Description	Mfr. No.	Cat. No.	Each
S70 Advanced Conductivity Meter			
Meter Only		**01-913-802**	1938.00
Meter Kit		**01-913-803**	2195.00
S40 High Performance pH/mV/°C Meter			
Meter Kit	S40K	**01-913-809**	1610.00
S80 ISE/pH/mV/ORP/Temperature Meter			
Basic Package	S80	**01-913-810**	2235.00
Meter Kit	S80K	**01-913-811**	2415.00

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METTLER TOLEDO™ SevenCompact™ Benchtop Meters

Precise electrochemical measurement combined with flexibility, innovative design and ease-of-use

S220 pH/Ion Meter

01-915-101

- This pH meter is suited for a wide range of applications; it can also measure ORP and ion concentration in various units
- A single keypress is all that is required to start a measurement or calibration, toggle measurement modes or switch between displays
- User friendly design: color display, intuitive icons and menu settings in 10 languages
- uFocus™ view provides alternate display for essential reading/calculations
- Pre-programmed settings for eight most commonly used ions
- READ or CAL buttons initiate a measurement or calibration, with three options for endpointing
- Intelligent Sensor Management (ISM™) for automatic recognition and secure, highly reproducible results
- Professional calibration support includes pre- and user-defined buffer groups, calibration reminder with optional sensor blocking and a pH senor icon
- GLP support functions: PIN protection, print-out and measurement limit monitoring
- Acoustic signals for warnings, button presses, or end-point stability
- Vertical uPlace™ movement for exacting electrode placement in sample
- Storage for 1000 datasets; optional LabX™ direct software adds infinite data space
- Comprehensive service package including IQ/OQ
- Integrated USB and RS-232 interfaces for data exchange

S230 Conductivity Meter

- Innovative design — color display, icons and menu settings in 10 languages facilitates operation
- Ideally suited for sugar analysis, the meter also supports special units required for bioethanol analysis and accepts sensor sells for accurate low conductivity/pure water measurement
- Applications range from routine measurements through sample analysis, data handling and data archiving (GLP-compliant)
- Intelligent Sensor Management (ISM™) eliminates mistakes with automatic identification of the sensor upon connection
- Felixable calibration; offers choice of 13 pre-defined standards, user-defined standards or manual input of cell constant
- Vertical uPlace movement ensures perfect positioning of electrode in sample for faster measurements and reduced risk of sensor damage and/or vessel upending
- Prominant display is 4.3" high-resolution color, with large digits and well-arranged icons for identification at a glance
- Two display views; uFocus screen delivers task-centric, of-the-moment data/readings
- A single keypress switches from one display to the other
- Comprehensive service package includes IQ/OQ
- Includes integrated USB and RS-232 interfaces for data exchange

Description	Mfr. No.	Cat. No.	Each
S220 pH/Ion Meter			
Basic: Meter	S220	**01-915-101**	920.00
Meter Kit	S220K	**01-915-102**	1120.00
Bio Meter Kit	S220BIO	**01-915-103**	1150.00
Meter Kit	S220U	**01-915-104**	1050.00
S230 Conductivity Meter			
Basic: S230 with Electrode Holder	S230	**01-915-105**	1150.00
Kit: S230 plus InLab 731-ISM and Calibration Sachets	S230K	**01-915-106**	1460.00
Kit: S230 plus InLab 741-ISM and Calibration Sachets	S230USP	**01-915-107**	1650.00

METTLER TOLEDO™ FiveEasy Plus™ Meters

This instrument is suitable for a wide range of applications in various areas, such as the food and beverage industry, as well as water and environmental analysis

01-911-301

FEP20 pH Meter

- Entry-level instrument for measuring pH and mV/ORP
- Three point calibration
- Up to 99 data storage
- RS232 interface

FEP30 Conductivity Meter

- Entry-level instrument for measuring conductivity, salinity and TDS
- Up to 99 data storage, RS232 interface, additional TDS and salinity measuring mode
- Automated endpoint recognition, automatic calibration, linear temperature compensation and selectable reference temperature
- Five self-explanatory buttons for starting and ending a measurement and for accessing the latest calibration data
- Useful accessories such as a laminated quick guide are enclosed with every FiveEasy Plus
- Besides the robust LE703 conductivity electrode, the kit version also comes with a handy electrode arm

Description	Mfr. No.	Cat. No.	Each
FEP20 pH Meter			
FEP20-Basic	51302914	**01-911-301**	630.00
FEP20-ATC Kit	51302915	**01-911-302**	795.00
FEP30 Conductivity Meter			
FEP30-Basic	51302935	**01-911-303**	795.00
FEP30-Kit	51302936	**01-911-304**	969.00

YSI™ MultiLab Line Benchtop Laboratory Instruments and Kits

For accurate pH, ORP, conductivity and BOD measurements in lab

Laboratory Instruments

- Parameters measured: pH, ORP (mV), DO%, DO mg/L (BOD probe), partical pressure, conductivity, resistivity, salinity, TDS, temperature
- Large, easy to read graphic display
- Intelligent, digital sensors with plug and play
- Mini USB connectivity to manage data
- Temperature compensation: yes (except ORP)

BOD Lab Kit Includes

09-324-558

- 4010-1 One Channel benchtop instrument
- Optical BOD probe

Advanced BOD Lab Kit Includes

- 4010-1 One Channel benchtop instrument
- Optical BOD probe
- BOD Analyst Pro desktop software

Kit for calculation of pH

- Includes 4010-1 One Channel benchtop instrument and Double Junction pH electrode

BOD/pH Lab Kit Includes

- 4010-2 Two Channel benchtop instrument
- Double Junction pH electrode
- Optical BOD probe

Advanced BOD/pH Lab Kit Includes

- 4010-2 Two Channel benchtop instrument
- Double Junction pH electrode
- Optical BOD probe
- BOD Analyst Pro desktop software

WARRANTY: Three years

COMPLIANCE: GLP/AQA compliant.

CERTIFICATIONS: CE marked cETLus.

Description	Mfr. No.	Cat. No.	Each
Laboratory Instruments			
Single	1FD350Y	**09-324-558**	1095.00
Dual	1FD460Y	**09-324-559**	1450.00
Three	1FD470Y	**09-324-560**	1895.00
BOD Laboratory Kits			
BOD Laboratory Kit	626570	**09-324-565**	1990.00
Advanced BOD Laboratory Kit	626571	**09-324-566**	2565.00
pH Laboratory Kits			
pH Laboratory Kit	626572	**09-324-567**	1320.00
BOD/pH Laboratory Kits			
BOD/pH Laboratory Kit	626573	**09-324-568**	2525.00
Advanced BOD/pH Laboratory Kit	626574	**09-324-569**	3000.00

ACCESSORIES

YSI™ MultiLab Line Benchtop Laboratory Instrument Accessories

For use with intelligent digital sensors and laboratory instruments

09-324-564

Description	Mfr. No.	Cat. No.	Each
Universal Power supply for Models 4010-1, 4010-2 and 4010-3	902867Y	**09-324-561**	126.25
Stand plus holder for electrodes	109813Y	**09-324-562**	227.25
USB cable for connecting instrument with USB-Mini B to PC	902883Y	**09-324-563**	67.53
BOD probe, 2m cable	626500	**09-324-564**	895.00
Calibration kit for IDS pH electrodes	109830Y	**09-324-570**	28.28
Adapter DIN for Models 4010-2 and 4010-3	108131Y	**09-324-571**	176.75
Adapter BNC for Models 4010-2 and 4010-3	101132Y	**09-324-572**	176.75

Meters/Portable

Fisher Scientific™ accumet™ AP110 and AP115 Portable pH Meters

Accurate measurements anytime, anywhere

For indoor and outside use. Versatile and rugged enough for the most demanding applications. Soft touch keys with comfort grip make one-handed operation a breeze. Compact design is small enough for a shirt pocket yet smart enough for any laboratory. AP100 Series kits include an unbreakable accumet pH/ATC electrode that is refillable for fast response and longest life.

13-636-AP110A

AP110 pH/mV/Temp meter features:

- Rugged waterproof housing, IP67 rated
- Large LCD with backlighting and plain-language text — easy to see and use
- Wide ranges: -2.00 to +20.00pH, 0 to ±2000.0mV, -5° to +100°C
- Adjustable pH resolution
- 200 data points internal memory
- Slope display
- Auto-off
- Full three-year meter warranty

AP115 pH/mV/Temp meter offers all features of the AP110 plus:

- 0.001pH resolution
- Date/time display to meet GLP requirements

INCLUDES: Meter Only option includes meter, 9V battery and manual.

Meter Kit option includes meter, accumet combination refillable pH/ATC electrode 13-620-AP50A, refill solution, hard carrying case, sample bottles, pH calibration packets, 9V battery and manual.

Description	Cat. No.	Each
AP110 meter only	**13-636-AP110A**	671.50
AP110 meter kit	**13-636-AP110**	800.00
AP115 meter only	**13-636-AP115A**	789.00
AP115 meter kit	**13-636-AP115**	925.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ accumet™ AP125 Portable pH/Ion/mV/ Temperature Meter

Accurate measurements anytime, anywhere

Indoors or outdoors, these newest accumet meters are versatile and rugged enough for the most demanding applications. Soft touch keys with comfort grip make one-handed operation a breeze. Compact design is small enough for a shirt pocket yet smart enough for any laboratory. AP100 Series kits include an unbreakable accumet pH/ATC electrode that is refillable for fast response and longest life.

13-636-AP125

AP125 pH/mV/ISE/Temp meter features:

- Rugged waterproof housing, IP67 rated
- Large LCD with backlighting and plain-language text — easy to see and use
- Ion concentration mode with choice of up to five of 10 preprogrammed calibration points
- -2.00 to +20.00pH, 0.001pH resolution
- 0 to ±2000.0mV, -5° to +100°C
- Adjustable pH resolution
- 200 data points internal memory
- Date/time display to meet GLP requirements
- Slope display
- Auto-off
- Full three-year meter warranty

INCLUDES:
Meter Only option includes meter, 9V battery and manual.

Meter Kit option includes meter, accumet combination refillable pH/ATC electrode 13-620-AP50A, refill solution, hard carrying case, sample bottles, pH calibration packets, 9V battery and manual.

Description	Cat. No.	Each
AP125 meter only	**13-636-AP125A**	1030.00
AP125 meter kit	**13-636-AP125**	1120.00

Fisher Scientific™ accumet™ Waterproof Portable pH/Dissolved Oxygen Meters

Dedicated DO meter uses galvanic probe for immediate DO measurements

- Measure DO in mg/L (ppm) or % saturation, plus temperature
- Dual display has adjustable backlight: read measured value and temperature even in dark areas
- Automatic Temperature Compensation from 0° to 50°C
- Key in salinity and pressure; meter calculates barometric pressure and salinity offsets
- Independent 100%, zero and offset adjustment capabilities
- Displays probe diagnostics, slope, offset and mV values
- Data memory for 50 readings with temperature and date/time stamp IP67 waterproof construction; floatable, washable to maintain reliable operation
- HOLD function, ready indicator and auto shutoff

13-636-AP74A

ORDERING INFORMATION:
Dimensions: 7.5L × 3.75W × 2.25"H (19 × 9.5 × 5.7cm).

INCLUDES:
Meter/Probe option includes meter, DO/temperature probe, electrolyte, instructions and four AAA batteries.

Meter Kit option includes meter, user guide, AAA batteries, dissolved oxygen/temp probe, electrolyte solution, two membrane caps, hard carrying case and polishing disk.

WARRANTY: Three years

Description	Mfr. No.	Cat. No.	Each
Meter Kit	3563674	**13-636-AP74**	1123.00
Meter/Probe	WD-35637-74	**13-636-AP74A**	1025.00

Fisher Scientific™ accumet™ Waterproof AP84 Portable pH/Dissolved Oxygen Meter

Wide-range pH and rapid DO readings

Powerful pH Mode:

- Five-point pH calibration with auto-buffer recognition
- Ranges fron -2.00 to +16.00pH, ±0.01pH
- Automatic temperature compensation for DO and pH measurements

Versatile Dissolved Oxygen capabilities:

- Galvanic probe design for immediate DO measurements in mg/L (ppm) or % saturation
- On entering salinity and pressure values, meter automatically calculates barometric pressure and salinity offset values
- Ensures high accuracy with independent 100%, zero and offset adjustment capabilities

Extra-convenient operation:

- Adjustable backlit display, ideal for taking readings in dark areas
- Displays probe diagnostics, slope, offset and mV values
- Features HOLD function, ready indicator and auto shutoff
- IP67 waterproof construction: floatable, washable, easy to keep clean

ORDERING INFORMATION:
Dimensions: 7.5L × 3.75W × 2.25"H (19 × 9.5 × 5.7cm).

13-636-AP84

INCLUDES:
Meter/Probe package includes meter, pH electrode, DO/temperature probe, electrolyte solution, instructions and four AAA batteries.

Meter Kit package includes meter, pH electrode, DO/temperature probe, pH buffer solutions, electrolyte solution, two replacement membrane caps, 50mL each pH 4 and pH 7 standard solutions, rinse bottle, instructions, four AAA batteries and carrying case.

Description	Cat. No.	Each
Meter/Probe	**13-636-AP84A**	1528.00
Meter Kit	**13-636-AP84**	1673.00

Fisher Scientific™ accumet™ Waterproof AP71 and AP72 pH/mV/Temperature Meters

Advanced pH meters in waterproof, dustproof housing

- Ergonomic design fits comfortably in the hand
- Electrode bracket positions electrode for one-handed operation
- Advanced set-up mode lets user customize meter parameters and check electrode slope and offset to assure electrode accuracy
- Read pH, absolute mV or relative mV and temperature
- Accuracy of ±0.01pH and ±0.02mV
- Manual or automatic temperature control
- Five-point push-button pH calibration and automatic buffer recognition (pH 1.68, 4.01, 7.01, 10.01, 12.45)
- HOLD function, ready indicator and automatic shut-off function

13-636-AP72A

Model AP71 Features

- Read pH, mV or relative mV and temperature in °C
- Memory allows storage and recall of up to 16 readings with corresponding temperatures

Model AP72 Adds

- Expanded memory for up to 50 readings
- Real-time clock that stamps stored data and calibration data with date and time
- Six-point push-button pH calibration and automatic buffer recognition
- Selectable buffer sets (NIST™, DIN and Standard US)
- Selectable automatic endpoint freezes reading when stable
- Reads temperature in °F or °C
- Features date/time stamp, expanded memory

INCLUDES:
Meter Only package includes meter, batteries and instructions.

Meter Kit package includes meter, pH/ATC electrode, pH calibration buffers, sample bottle and hard plastic carrying case.

Description	Cat. No.	Each
AP71 Meter		
Meter Only	**13-636-AP71A**	704.00
Meter with Kit	**13-636-AP71**	838.00
AP72 Meter		
Meter Only	**13-636-AP72A**	785.00
Meter with Kit	**13-636-AP72**	911.00

Fisher Scientific™ accumet™ AP75 Portable Waterproof Conductivity/TDS Meter

Durable, dustproof, waterproof

Dual-display LCD shows conductivity or TDS plus temperature in °C or °F. Meter switches between readings with the press of a button. Advanced features for easy customization.

- Selectable cell constant ($0.1cm^{-1}$, $1.0cm^{-1}$, or $10cm^{-1}$)
- Autoranges for conductivity across five ranges and TDS across six for fast response
- Calibration up to five points for both conductivity and TDS measurements
- Adjustable temperature coefficient from 0 to 10% per °C offers accurate compensation in almost any solution
- Selectable auto endpoint freezes reading immediately after meter indicates stabilization
- Expanded memory function stores and recalls up to 50 readings
- Real-time clock enables stored and calibration data to be combined with date and time for more complete recordkeeping
- HOLD function and auto shutoff

ORDERING INFORMATION:
Dimensions: 7.5L × 3.75W × 2.25"H (19 × 9.5 × 5.7cm).

INCLUDES:
Meter/Probe package includes meter, K = $1.0cm^{-1}$ conductivity/temperature plastic-bodied probe with 3' (0.9m) long cable (13-620-AP54), four AAA batteries and instruction manual.

Meter Kit includes meter; K = $1.0cm^{-1}$ conductivity/temperature plastic-bodied probe with 3' (0.9m) long cable (13-620-AP54); four each of 447µS, 1413µS, 2764µS and 15,000µS 20mL conductivity calibration solution pouches; sample bottle; four AAA batteries; instruction manual and hard plastic carrying case.

13-636-AP75A

WARRANTY: Three-year warranty. AP75 is warranted to the end user to be free from defects in materials and workmanship under normal use for a period of three years.

CERTIFICATIONS: ISO™ 9001

Description	Cat. No.	Each
Meter/Probe	**13-636-AP75A**	921.00
Meter with Kit	**13-636-AP75**	1038.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ accumet™ AP85 Portable Waterproof pH/Conductivity Meter

Durable, waterproof, dustproof — ideal for rough field applications

Measures pH, conductivity and TDS plus temperature. Switches between pH, conductivity and TDS with the press of a button. Dual-display LCD shows all parameters with temperature; recalls previous calibration points too.

- Advanced set-up mode for customizing meter parameters
- Selectable automatic endpoint freezes reading immediately after stabilization
- HOLD button freezes reading
- Self-diagnostic: meter indicates when it is ready to operate; error messages alert operator to problems
- ISO™ 9001 certified manufacturer

13-636-AP85

Powerful pH Mode

- Recalls pH electrode slope and offset
- Has five-point calibration with automatic buffer recognition

Conductivity and TDS Modes

- Recalls and customizes effective cell constants for each range
- Autoranging for conductivity across five ranges
- Autoranging for TDS across six ranges
- Five-point calibration for ±1% full-scale accuracy

Flexible Temperature Mode

- Select temperature in °C or °F
- Set coefficient from 0 to 10% for accurate compensation in almost any solution
- Manual or automatic temperature compensation

INCLUDES:
Meter/Probe package includes meter, 1.0cm^{-1} conductivity/temperature plastic-bodied probe with 3' (0.9m) long cable (13-620-AP54), All-in-One pH/temperature probe (13-620-AP55), four AAA batteries and instruction manual.

Meter Kit package includes meter, 1.0cm^{-1} conductivity/temperature plastic-bodied probe with 3' (0.9m) long cable (13-620-AP54), All-in-One pH/temperature probe (13-620-AP55), 4.00 and 7.00pH buffer solutions, 1413µS conductivity calibration solution, sample bottle, four AAA batteries, instruction manual and hard plastic carrying case.

WARRANTY:
Three-year warranty. AP85 is warranted to the end user to be free from defects in materials and workmanship under normal use for a period of three years. Call your Fisher Scientific Customer Service Representative for full details.

Description	Cat. No.	Each
Meter/Probe	**13-636-AP85A**	1142.00
Meter with Kit	**13-636-AP85**	1237.00

Thermo Scientific™ Orion Star™ A121 pH Portable Meter

Meters make it easy and affordable to take simple, accurate pH measurements

Thermo Scientific Orion Star A121 pH Portable Meters combine simplicity with accuracy. A large LCD displays pH or mV readings along with temperature. Icons provide quick updates on battery life, electrode status and calibration information. Simple button layout and onscreen messages help with calibration and setup menu choices.

13-646-504

- Large, informative screen clearly shows the main information, including parameter reading, temperature in °C or °F, meter mode, calibration information and battery life
- AUTOREAD™ locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Up to three point pH calibration
- Automatic recognition of USA/NIST™ and DIN buffers
- Easily recall calibration slope data for procedure checks
- Non-volatile memory holds up to 50 data points
- Four AA batteries (included) provide over 2000 hours of operation or purchase the universal power adapter (sold separately) to run meter on AC power
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing

WARRANTY: Three year meter replacement warranty

CERTIFICATIONS: CE, TÜV, FCC Class A limits

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA1210	**13-645-504**	485.95
Meter Kit	STARA1215	**13-645-506**	823.56

Thermo Scientific™ Orion Star™ A122 Conductivity Portable Meter

- Selectable cell constant
- Manual calibration or automatic calibration when using a Thermo Scientific Orion conductivity standard (sold separately)
- Selectable reading reference temperatures of 20°C or 25°C for an accurate result

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA1220	**13-645-510**	608.72
Meter Kit	STARA1225	**13-645-512**	1120.25

Thermo Scientific™ Orion Star™ A123 Dissolved Oxygen Portable Meter

- Automatic temperature, manual salinity input and manual barometric pressure compensation for an accurate result
- Two calibration options to meet your procedural requirements: water-saturated air method or a Winkler titration
- Accepts Thermo Scientific Orion polarographic dissolved oxygen probes

Description	Mfr. No.	Cat. No.	Each
Meter Only	STARA1230	**13-645-516**	606.82
Meter Kit	STARA1235	**13-645-518**	1411.82

Thermo Scientific™ Orion Star™ A221 pH Portable Meter

The large, backlit graphic LCD display shows pH/mV/RmV and temperature along with electrode status, time, date and calibration points.

13-645-522

- Plain language screen prompts, soft keys that update for easy selection and a multi language interface that supports English, Spanish, French, Italian, German and Chinese
- AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Up to five point pH calibration with automatic recognition for USA/NIST™ and DIN buffers
- Nonvolatile memory holds up to 1000 datapoints with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately) to use AC power
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing

WARRANTY: Three year meter replacement warranty

CERTIFICATIONS: CE, TÜV, FCC Class A limits

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA2210	**13-645-522**	557.57
Meter Kit	STARA2215	**13-645-524**	1089.56

Thermo Scientific™ Orion Star™ A222 Conductivity Portable Meter

- Display shows conductivity/ TDS/salinity/resistivity and temperature along with electrode status, time, date and calibration points
- Selectable cell constant allows for use with two- or four-cell conductivity cells
- Selectable reading reference temperatures of 15°, 20° or 25°C with linear or nonlinear curve options
- Includes the standard practical salinity curve for salinity readings
- Linear or ISO/EN 27888 curves for TDS

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA2220	**13-645-529**	779.57
Meter Kit	STARA2225	**13-645-531**	1227.67

Thermo Scientific™ Orion Star™ A223 Dissolved Oxygen Portable Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA2230	**13-645-536**	779.57
Meter Kit	STARA2235	**13-645-538**	1560.17

Thermo Scientific™ Orion Star™ A321 pH Portable Meter

Rugged and dependable, making it ideal for every sample, every day, everywhere

Informative display shows pH/mV/RmV and temperature along with electrode status, time, date, sample ID, user ID and calibration points. Advanced features such as stability and averaging options provide additional options allowing for laboratory accuracy everywhere you need it.

13-645-551

- Plain language screen prompts, soft keys that update for easy selection and a multi language interface that supports English, Spanish, French, Italian, German and Chinese
- AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Up to five point pH calibration with automatic recognition for USA/NIST™ and DIN buffers
- Fix errors without a complete recalibration with calibration editing
- Nonvolatile memory holds up to 5000 datapoints with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately) to use AC power
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing

WARRANTY:
Three year meter replacement warranty

CERTIFICATIONS:
CE, TÜV, FCC Class A limits

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3210	**13-645-551**	687.06
Meter Kit	STARA3215	**13-645-553**	1212.33

Thermo Scientific™ Orion Star™ A322 Conductivity Portable Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3220	**13-645-554**	927.78
Meter Kit	STARA3225	**13-645-556**	1350.44

Thermo Scientific™ Orion Star™ A323 Dissolved Oxygen Portable Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3230	**13-645-557**	943.26
Meter Kit	STARA3235	**13-645-559**	1647.13

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Orion Star™ A324 pH/ISE Portable Multiparameter Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3240	**13-645-560**	997.48
Meter Kit	STARA3245	**13-645-562**	1427.17

Thermo Scientific™ Orion Star™ A326 pH/Dissolved Oxygen Portable Multiparameter Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3260	**13-645-566**	1188.56
Meter Kit	STARA3265	**13-645-568**	2143.31

Thermo Scientific™ Orion Star™ A325 pH/Conductivity Portable Multiparameter Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3250	**13-645-563**	1186.75
Meter Kit	STARA3255	**13-645-565**	2005.20

Thermo Scientific™ Orion Star™ A329 pH/ISE/Conductivity/Dissolved Oxygen Portable Multiparameter Meter

Description	Mfr. No.	Cat. No.	Price
Meter Only	STARA3290	**13-645-569**	1611.32
Meter Kit	STARA3295	**13-645-571**	2900.38

Oakton™ CON 11 Standard Conductivity Meter

Reads both conductivity and TDS with autoranging across five ranges, ergonomically designed for one-handed use

Simple-to-use portable meter measures conductivity and TDS across five ranges with autoranging for all. Dual-display shows conductivity plus temperature in °C with push-button ease; memory saves 50 data sets.

- With manual or automatic temperature compensation and auto or manual, single or multipoint calibration for ±1% full-scale accuracy
- Features HOLD function, auto off, ready indicator, error messages
- Water-resistant membrane keypad
- Conductivity-to-TDS factor is adjustable from 0.4 to 1.0.
- Compatible with AC adapter (13-300-126, sold separately)

13-620-237

INCLUDES:
Meter/Probe with built-in stand, electrode holder, 1.0cm^{-1} conductivity/TDS/temperature plastic-bodied probe with 3' (0.9m) cable (13-620-AP54), instructions and four AAA batteries.

Meter Kit includes meter with built-in stand and electrode holder; 1.0cm^{-1} conductivity/TDS/temperature plastic-bodied probe with 3' (0.9m) cable (13-620-AP54); four each of 447µS, 1413µS, 2764µS and 15,000µS 20mL conductivity calibration solution pouches; four rinse water pouches; sample bottle; four AAA batteries; instructions; and hard plastic carrying case.

WARRANTY:
Backed by a full two-year warranty.

CERTIFICATIONS:
CE, ISO™ 9001 certified

Description	Cat. No.	Each
Meter/Probe	**13-620-237**	646.86
Meter with Kit	**13-620-236**	746.53

Oakton™ CON 110 Advanced Meter

Customize meter parameters for specific applications

Reads conductivity 0.00µS to 199.9mS across five ranges with single or five-point, manual or automatic calibration. Stores and recalls 100 readings with temperature in °C or °F.

- Advanced set-up mode enables user to check calibration data and customize features
- Adjust the temperature coefficient
- Select one of three cell constants (1.0cm^{-1}; 0.1cm^{-1}; or 10cm^{-1})
- Select manual or autoranging and manual or automatic temperature compensation
- Mode can also be used to program ready indicator, auto shutoff and more
- RS-232 output enables continuous download of data to printer
- With built-in stand and electrode holder
- Membrane keypad is water resistant
- Compatible with AC adapter 13-300-126 (not included)

13-620-241

INCLUDES:
Meter/Probe package includes built-in stand, electrode holder, 1.0cm^{-1} conductivity/TDS/temperature plastic-bodied probe with 3' (0.9m) cable (13-620-AP54), four AAA batteries and instructions.

Meter Kit package includes meter with electrode holder; 1.0cm^{-1} conductivity/TDS/temperature plastic-bodied probe with 3' (0.9m) cable (13-620-AP54); four each of 477µS, 1431µS, 2764µS, 15,000µS 20mL calibration solution pouches; four rinse water pouches; sample bottle; four AAA batteries and hard plastic carrying case.

WARRANTY:
Backed by a full two-year warranty.

CERTIFICATIONS:
ISO™ 9000: 2000

Description	Cat. No.	Each
Meter/Probe	**13-620-241**	726.51
Meter with Kit	**13-620-240**	829.82

Oakton™ DO 110 Portable Dissolved Oxygen Meter

Dual display of dissolved oxygen and temperature readings, plus RS-232 output

- Dual-readout LCD
- Galvanic probe design for immediate dissolved oxygen readings — no meter warmup
- Memory stores up to 100 readings with temperatures in °C or °F
- RS-232 output to printer or computer (cable optional)
- Independent 100%, zero and offset adjustment capabilities for high accuracy over entire measurement range
- Key in barometric pressure and salinity; meter calculates salinity correction from 0.0 to 50.0ppt, barometric pressure correction from 500 to 1499mmHg
- Easy-to service, low maintenance galvanic probe with replaceable cap assembly
- Displays probe diagnostics, slope, zero offset and millivolt values
- HOLD function, ready indicator and automatic shutoff
- Splash-resistant membrane keypad helps protect meter components

15-500-101

APPLICATIONS:
Ideal for testing water quality, wastewater, surface water, groundwater or drinking water

ORDERING INFORMATION:
Dimensions: 7.5L × 3.5W × 1.75"H (19 × 8.9 × 4.5cm). Built-in stand. Operates on four AAA batteries.

Replacements:
15-500-036 Replacement Electrolyte, premixed, 500mL
15-500-037 Replacement Membrane Cap with pre-installed membrane
15-500-038 Replacement HDPE Membranes, 25/pk (requires 15-500-039 tool)
15-500-039 Membrane Replacement Tool

INCLUDES:
Meter/Probe option includes meter, DO/temperature probe with 10' submersible cable, software on CD-ROM, one assembled membrane cap housing, 60mL electrolyte and batteries.

Meter Kit option includes meter, DO/temperature probe with 10' submersible cable, software on CD-ROM, one assembled membrane cap housing, 60mL electrolyte, batteries and hard plastic carrying case.

REQUIRES:
Optional cable for RS-232 output (13-637-680). Optional AC Adapter (13-300-126) for use on 110VAC 60Hz.

WARRANTY:
Three years on the meter

Description	Mfr. No.	Cat. No.	Each
Meter/Probe	3564020	**15-500-101**	748.95
Meter Kit	3564064	**15-500-102**	785.25

Oakton™ TDSTestr™ 11 and ECTestr™ 11 Series

Versatile, waterproof pocket testers that float

- Rugged construction for long service
- IP67 Waterproof/Dustproof rated
- Chemical-resistant, floatable Valox™ housing so tester won't sink to the bottom of your tank or pond
- Stainless-steel electrodes are replaceable without losing IP67 protection, have good chemical compatibility and durability
- Microprocessor-controlled TDS or conductivity testing
- Each model covers a broad range of applications
- Single- or one-point-per-range calibration
- Auto shutoff, low-battery indicator, error messages
- Automatic temperature compensation over the entire 0° to 50°C (32° to 122°F) range for quick response, even with fluctuating temperatures

13-200-275

ORDERING INFORMATION:
All models measure 6.5L × 1.5" diameter. Shipping weight, 0.45 lb. (0.2kg). Operates on four 1.5V batteries (included); battery life, over 150 hours.

INCLUDES:
Housing, replaceable electrode, batteries, operating instructions

Model	Mfr. No.	Cat. No.	Each
TDSTestr 11	3566210	**13-200-275**	107.19
TDSTestr 11 Plus	3566215	**13-200-276**	152.27
ECTestr 11	3566230	**13-200-277**	107.19
ECTestr 11 Plus	3566235	**13-200-278**	152.27

Oakton™ EcoTestr™ TDS/ EC/ Salt/ pH 2 Portable Meter

Simplicity with Oakton reliability

- Simple single-line display
- Transparent protective cap
- Waterproof, dustproof housing
- Durable sensor
- Click-lock battery compartment
- Push-button calibration
- Hold function
- Auto shut-off
- Automatic temperature compensation

15-500-305

Description	Range	Resolution	Mfr. No.	Cat. No.	Price
For salt	0.0 to 10.00 ppt	0.10 ppt	WD-35662-52	**13-620-455**	105.63
For high TDS	0 to 10.1 ppt	0.1 ppt	WD-35462-15	**15-500-303**	62.35
For high EC	0 to 19.90mS/cm	0.1mS	WD-35462-35	**15-500-305**	62.35
For salt	0 to 10.00 ppt	0.1 ppt	WD-35462-50	**15-500-306**	71.76
For pH 2	0.0 to 14.0 pH	0.1 pH	WD-35423-10	**15-500-301**	64.48
For low TDS	0 to 1990 ppm	10 ppm	WD-35462-10	**15-500-302**	62.35
For low EC	0 to 1990µS/cm	10µS	WD-35462-30	**15-500-304**	62.35

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Oakton™ Waterproof Big Display pHTestr™ 10

Pocket pH meter with large display makes taking readings easy

- Microprocessor-based, with accurate readings to 0.1pH
- Unique double junction design and extra reference gel volume for significantly longer electrode life, especially in harsh applications
- Automatic temperature compensation
- Push-button three-point calibration
- Auto buffer recognition: selectable buffer sets
- Hold function; auto-off; error messages
- Waterproof, dustproof and floatable; certifiable to IP67 standards

INCLUDES:
Meter Only package includes meter, electrode, four 1.5V batteries, instructions.

Meter Kit package includes meter; electrode; two each of pH 4.01, 7.00, 10.00 buffers and rinse solution in single-use pouches; sample jar; batteries; instructions and hard plastic carrying case.

WARRANTY:
One-year warranty.

13-200-261

Description	Mfr. No.	Cat. No.	Each
Meter Only	WD-35634-10	**13-200-261**	134.01
Meter Kit	WD-35634-70	**13-200-268**	161.94

Oakton™ Waterproof Big Display pHTestr™ 20

- Suitable for most ASTM and EPA test procedures
- Microprocessor-based, with accurate readings to 0.01pH

Description	Mfr. No.	Cat. No.	Each
Meter Only	WD-35634-20	**13-200-262**	146.44
Meter Kit	WD-35634-80	**13-200-269**	193.43

Oakton™ Waterproof Big Display pHTestr™ 30

- Simultaneous pH and temperature display
- Temperature measurement from 0.0° to 50.0°C

Description	Mfr. No.	Cat. No.	Each
Meter Only	WD-35634-30	**13-200-263**	159.58
Meter Kit	WD-35634-90	**13-200-270**	216.38

METTLER TOLEDO™ SevenGo™ and SevenGo pro™ Conductivity Meters

Built-in data memory and automatic functions for outstanding performance

- Measure conductivity, TDS, resistivity, salinity, temperature
- Designed for easy, comfortable right- or left-handed operation
- Waterproof and dustproof to IP67 standard
- Large display of measured value and settings
- Rotatable electrode clip mounts left or right for single-handed operation

01-910-522

SevenGo Model SG3

- Automatic and manual endpoint recognition
- Automatic temperature compensation
- Automatic recognition 84µS/cm, 141µS/cm or 12.88mS/cm
- Data memory for 30 GLP data points

SevenGo pro Model SG7

- Separate operating modes for expert and routine use
- Linear and nonlinear temperature compensation
- Calibration with user-defined standard or cell constant
- Water measurements according to USP
- Record date, time, time interval
- Intuitive menu operation using softkeys
- GLP memory for 200 datapoints
- Contact-free infrared communication with notebook, printer or PC
- ON/OFF backlit display

ORDERING INFORMATION:
Choose from three packaging options. All include wrist strap, four AA batteries, operating instructions, test certificate and declaration of conformity.

Description	Mfr. No.	Cat. No.	Each
SG3 meter w/IP67 sensor and 1.8m cable and clip	51302531	**01-910-522**	889.00
SG7 meter w/IP67 sensor and 1.8m cable and clip	51302572	**01-910-527**	1385.00
SG7 meter w/IP67 sensor and electrode arm and cover	51302532	**01-910-523**	994.00

METTLER TOLEDO™ SevenGo Duo pro™ Lab Meters

Professional dual-channel instrument for special analyses, particularly in the environmental, chemical, and food and beverage industries

Portable meter for the parallel determination of pH, mV, rel. mV or ion concentrations and dissolved oxygen (DO).

SevenGo Duo pro Lab Meters

- Either linear or segmented 5-point pH calibration, with selection from seven predefined and one user-defined buffer groups
- Dissolved oxygen mode based on optical Rugged Dissolved Oxygen (RDO™) technology
- Manual or automatic atmospheric pressure compensation using built-in barometer
- Modern data management for 500 GLP data records with date/time, sensor ID and serial number, and user and sample ID
- Contactless infrared interface for data transmission to a printer or PC
- Intuitive, user-friendly operation using menu guidance in 10 languages and backlit display
- Rugged watertight housing (IP67)
- Intelligent sensor management system (ISM™) for automatic access to up-to-date calibration data

InLab™ OptiOx for Dissolved Oxygen

- Optical oxygen sensor based on RDO
- Easy-to-replace OptiOx sensor caps
- Robust and manageable design

InLab Expert Pro-ISM for pH

- Low-maintenance XEROLYT™ polymer electrolyte with two open reference connections
- Robust, chemically resistant PEEK shaft
- Long-lasting ARGENTHAL™ reference system

Description	Mfr. No.	Cat. No.	Each
Meter Only	SG98-B	**01-915-700**	1495.00
Meter Electrode Kit with InLab Expert Pro-ISM and InLab OptiOx (IP67, 1.8m Cable)	SG98-ELK	**01-915-701**	2138.00
Meter Field Kit with Electrodes (1.8m Cable) and Compact Case	SG98-FK2	**01-915-702**	2249.00
Meter Field Kit with Electrodes (5m Cable) and Compact Case	SG98-FK5	**01-915-703**	2352.00

METTLER TOLEDO™ SevenGo pro™ Dissolved Oxygen Meter

Single-channel instrument utilizing OptiOx optical measuring system

Combines measurement accuracy and a wide range of functions with user-friendly operation and safety. Ideal for special analyses required in environmental, chemical and food and beverage industries. Features optical oxygen measurement, based on Rugged Dissolved Oxygen (RDO™) technology, for fast, precise and highly reproducible results.

SevenGo pro Dissolved Oxygen Meter

- Manual or automatic atmospheric pressure compensation using built-in barometer
- Modern data management for 500 GLP data records with date/time, sensor ID and serial number, and user and sample ID
- Intelligent sensor management system (ISM™) for automatic access to up-to-date calibration data
- Contactless infrared interface for data transmission to a printer or PC
- Intuitive, user-friendly operation using menu guidance in 10 languages and backlit display
- Rugged, watertight housing in accordance with IP67; optional OptiOx protective guard enables use in harsh environments
- Ergonomic design

InLab™ OptiOx for Dissolved Oxygen

- Optical oxygen sensor based on RDO technology
- Easy-to-replace OptiOx sensor caps
- Robust and manageable design

The Field Kit (FK) versions include the following accessories:

- Field Compact Case — provides space for two electrodes with a maximum cable length of 10m
- Rubber Holster — offers optimum impact protection and battery change without cover removal
- OptiOx Protective Guard — adds stainless-steel protection and additional weight for "sunken" measurements

Model	Mfr. No.	Cat. No.	Each
Meter Only	SG9-B	**01-915-704**	856.00
Meter Electrode Kit with InLab OptiOx (IP67, 1.8m Cable)	SG9-ELK	**01-915-705**	1348.00
Meter Field Kit with Electrodes (1.8m Cable) and Compact Case	SG9-FK2	**01-915-706**	1497.00
Meter Field Kit with Electrodes (5m Cable) and Compact Case	SG9-FK5	**01-915-707**	1538.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

METTLER TOLEDO™ SevenGo pro™ SG6 Dissolved Oxygen Meter

Professional oxygen instrument; IP-67 waterproof rating

Portable meter measures dissolved oxygen in mg/L and % saturation. Designed for easy, comfortable right- or left-handed operation. Meter is waterproof and dustproof to IP-67 standard, features large display of measured value and settings; optional rotatable electrode clip mounts left or right for single-handed operation.

01-910-530 Series

- Manual or automatic air pressure compensation with built-in barometer
- High-performance O_2 sensor
- Comprehensive range of accessories
- Data memory for 200 GLP datapoints
- Backlit display
- Separate operating modes for expert and routine use
- Linear and nonlinear temperature compensation
- Record date, time, time interval
- Intuitive menu operation using softkeys
- GLP memory for 200 datapoints
- Contact-free infrared communication with notebook, printer or PC

ORDERING INFORMATION:
All options include wrist strap, four AA batteries, operating instructions, test certificate and declaration of conformity. Choose from three packaging options.

Model	Mfr. No.	Cat. No.	Each
Meter with Electrode and 1.8m Cable	51302563	**01-910-530**	1280.00
Meter with Electrode, 1.8m Cable and Case	51302562	**01-910-531**	1379.00
Meter with Electrode, 10m Cable and Case	51302561	**01-910-532**	1548.00

METTLER TOLEDO™ InLab™ OptiOx Dissolved Oxygen Sensor

Based on the reliable optical RDO™ (Rugged Dissolved Oxygen) technology, for measurement of dissolved oxygen content in aqueous samples

01-915-708

- Optical technology does not consume oxygen — stirring is not needed
- Immediately ready to use — no need for polarization
- Easy handling with zero maintenance — no membranes or solutions
- Equipped for use in harsh, field-based environments
- Suitable for a wide range of aqueous applications
- For use with S479, S975 and S900 Seven Excellence, SG9 and SG98 SevenGo™ meters
- Detection: Optical
- Measurement range: 0 to 500%, 0 to 50mg/L
- Temperature range: 0 to 50°C
- Connection: mini LTW
- Shaft length: 65mm

Cable Length	Mfr. No.	Cat. No.	Each
Dissolved Oxygen Sensors			
1.8m	51344621	**01-915-708**	880.00
5m	51344622	**01-915-709**	945.00
10m	51344623	**01-915-710**	968.00
Protective Guard			
----	51344632	**01-915-713**	278.00

METTLER TOLEDO™ SevenGo™ Series Portable Meters

Characterized by user-friendliness and excellent ergonomics

- Easy and intuitive operation
- High measurement accuracy
- Large, easy-to-read display screen
- Watertight and robust
- Comprehensive range of practical accessories
- Modern GLP data management
- Revolutionary Intelligent Sensor Management (ISM™)

01-917-130

SG78
- pH range: -2 through +19.99

SG23
- pH range: 0 through +14.00

Description	Mfr. No.	Cat. No.	Price
Instrument Only; SG23	51302600	**01-917-130**	940.00
With InLab Expert Pro-ISM and InLab738-ISM (both IP67, 1.8m cable)	51302601	**01-917-131**	1374.00
Instrument only; SG78	51302620	**01-917-136**	1400.00
With InLab Expert Pro-ISM and InLab738 (both IP67, 1.8m cable)	51302621	**01-917-137**	1855.00
Field kit with InLab Expert Pro-ISM and InLab738 (both IP67, 1.8m cable)	51302622	**01-917-138**	1999.00

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

YSI™ Model 550A Dissolved Oxygen Meter

Rugged DO Meter designed for the field

- Accurate measurement of dissolved oxygen and temperature simultaneously
- Waterproof, impact-resistant case
- Innovative field-replaceable DO electrode with screw-on cap membranes
- Quick sinking, weighted probe
- Large easy-to-read backlit display
- Features calibration in % and mg/L, altitude and temperature compensation and a low battery indicator

ORDERING INFORMATION:
Available with 12X, 25X, 50X and 100' cables. Replacement DO electrode sold separately. Dimensions: 9L × 4 3/4 × 2 1/2"H (23 × 12 × 6cm).

INCLUDES:
Four C batteries, operating manual, DO/temperature probe and length of cable specified; also available with carrying case

YSI Model 550A Dissolved Oxygen Meter

WARRANTY:
Three-year warranty on instrument and one-year warranty on replaceable electrode.

COMPLIANCE:
Meets IP67 requirements.

CERTIFICATIONS:
CE marked, CE compliant.

Description	Mfr. No.	Cat. No.	Each
Meter with Probe			
12'(3.7m)	550A 12	**13-298-118**	996.00
25'(7.6m)	550A 25	**13-298-120**	1026.00
50'(15.2m)	550A 50	**13-298-122**	1098.00
100'(30.5m)	550A 100	**13-298-116**	1157.00
Meter with Probe and Carrying Case			
12'(3.7m)	550A 12CC	**13-298-119**	1078.00
25'(7.6m)	550A 25CC	**13-298-121**	1123.00
50'(15.2m)	550A 50CC	**13-298-123**	1155.00
100'(30.5m)	550A 100CC	**13-298-117**	1429.00

YSI™ ProODO Handheld Optical Dissolved Oxygen Meter

Provides extreme durability for the measurement of optical-based dissolved oxygen for any field application

The ProODO instrument meets the demands of true field work.

- No electrodes to clean or solutions to change
- Easy-to-read graphic, backlit display and keypad for use in any lighting condition
- Expanded DO range of 0-500% with a response time of T90 in approximately 25 seconds
- Stores 5000 data sets (sensor data, date, time, site and user defined information)
- USB connectivity for use with Data Manager software
- Nonconsumptive luminescent method eliminates stirring
- Impact resistant, IP-67 waterproof case and connectors with rubber nonslip case
- User replaceable sensing element good for approximately one year

INCLUDES:
Handheld ProODO instrument, manual, batteries, communications saddle, USB cable and Data Manager software

WARRANTY:
Three-year instrument warranty

NOTES:
Probes and cables are not included and must be purchased separately.

YSI ProODO Dissolved Oxygen Meter

Description	Mfr. No.	Cat. No.	Each
ProODO Meter	626281	**14-660-204**	769.00

YSI™ Professional Plus Multiparameter Meter

Versatile handheld instrument for pH, DO, conductivity and ISE measurements

Compact, handheld instrument provides true versatility in a multiparameter platform. Simply choose the cable length and probes to suit your application; then determine what you want the instrument to display.

- Two mV inputs for combinations of Ammonium, Chloride, Nitrate, pH and ORP
- Choice of lab or field grade pH and ORP probes
- Choice of 1, 4, 10, 20 and 30m (3, 13, 32, 65 and 98') detachable cables (available separately)
- Automatic buffer recognition
- Automatic temperature, salinity and barometric compensation for dissolved oxygen measurements
- Continuous battery level display
- Backlit display and keypad
- User-upgradeable software via USB communications
- Graphic display with detailed messages and instructions
- 2000 data-set memory with additional GLP event logging

15-177-450

- Interval or single event logging capability
- Data Manager desktop software to manage all your data

ORDERING INFORMATION: Dimensions: 2.25L × 3.25W × 8.5"H (2.3 × 8.3 × 21.6cm). Waterproof case, IP-67 rated with shock resistant rubber overmold. Weight with batteries, 1.05 lb. (475g). Power: two alkaline C cells; 300 to 600 hours depending on usage and parameters.

INCLUDES: Meter, two alkaline C-cells, instructions, communications saddle, USB cable and YSI Data Manager™ software for Windows™

REQUIRES: pH, ORP, DO or ISE probe and cable; conductivity probe/cable combination

WARRANTY: Three years for meter; two years for cables; six months for Ammonium, Nitrate, and Chloride probes; one year for all other probes

Description	Mfr. No.	Cat. No.	Each
ISE Mode	6050000	**15-177-450**	1305.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sper Scientific™ AquaShock™ pH and pH ORP Kit

Measures pH, mV ORP and temperature

10-190-301

- Rugged and reliable
- Provides stable and accurate readings
- Fully shockproof
- IP67 waterproof; floats if accidentally dropped in water
- Integral (double injection molded) soft grip outer layer for firm grip
- Large LED backlight display
- Watertight screw-down probe connections for use with AquaShock probes
- Also accepts standard BNC probes
- Powered by environmental friendly rechargeable lithium ion battery
- Internal clock and calender
- Five calibration points
- Automatic buffer recognition
- Recalls electrode offset, slope and last calibration
- Replacement AquaShock ATC pH probe (10-190-304)
- AquaShock ORP probe (10-190-306)

ORDERING INFORMATION:
Dimensions: 8.25 × 4.25 × 2.25" (210 × 108 × 57mm); weight: 1 lb. (476g).

INCLUDES:
AquaShock pH meter or pH ORP meter; AC adapter; manual; warranty card; probe input covers; ATC pH probe; pH 4.01, 6.86, 9.18 and distilled water; protective, foam-lined, hard shell carrying case

WARRANTY: Five years

COMPLIANCE: RoHS

CERTIFICATIONS: C UL listed US (AC adapter)

Description	Mfr. No.	Cat. No.	Each
pH kit	850057K/RSD	**10-190-301**	590.00
pH ORP kit	850064K/RSD	**10-190-302**	660.00
Replacement AquaShock ATC pH Probe	850057P/RSD	**10-190-304**	207.00
AquaShock ORP Probe	850064P/RSD	**10-190-306**	207.00

Sper Scientific™ AquaShock™ DO Kit

Description	Mfr. No.	Cat. No.	Each
With 10' (3m) Probe Cable	850046K/RSD	**10-190-307**	724.00
With 25' (7.6m) Probe Cable	850046K25/RSD	**10-190-309**	910.00
With 50' (15.2m) Probe Cable	850046K50/RSD	**10-190-310**	935.00

Sper Scientific™ AquaShock™ Water Purity Kit

Determine water purity in applications such as coolers, waste water, environmental testing, aquariums and industrial quality control

10-190-303

- Measures conductivity (in mS/µS), total dissolved solids (in ppm/ppt) and temperature
- Rugged and reliable meter
- Provides stable and accurate readings
- Fully shockproof
- IP67 waterproof; floats if accidentally dropped in water
- Integral (double injection molded) soft grip outer layer for firm grip
- Large LED backlight display
- Watertight screw-down probe connections for use with AquaShock probes
- Also accepts standard BNC probes
- Powered by environmental friendly rechargeable lithium ion battery
- Recalls last calibration points
- Internal clock and calender
- Replacement AquaShock ATC conductivity/TDS probe (10-190-305)

ORDERING INFORMATION:
Dimensions: 8.25 × 4.25 × 2.25" (210 × 108 × 57mm); weight: 1 lb. (476g).

INCLUDES:
AquaShock Pure Water Meter; ATC conductivity/TDS probe; AC adapter, manual; warranty card; probe input covers; protective, foam-lined, hard shell carrying case

WARRANTY: Five years

COMPLIANCE: RoHS

CERTIFICATIONS: C UL listed US (AC adapter)

Description	Mfr. No.	Cat. No.	Each
Water purity kit	850034K/RSD	**10-190-303**	690.00
ATC conductivity/TDS Replacement probe	850034P/RSD	**10-190-305**	243.00

Before You Buy **pH Electrodes**

Thermo SCIENTIFIC

Add an Orion™ VERSA STAR™ or Star™ A meter for ultimate pH measurement performance.

- Benchtop and portable meters built with the same quality and expertise you expect from Orion products
- Expanded meter offering combines tried and true features relied on by lab professionals with new features designed for ease of use and quick learning
- Optimized performance when paired with ROSS electrodes
- With 24 models designed to handle every sample — every day, anywhere, there is a meter that's perfect for you

Features To Look For

ROSS pH Electrodes: Superior Accuracy, Reliability & Response

Compared to conventional electrodes, Thermo Scientific™ Orion™ ROSS™ pH electrodes exhibit unsurpassed accuracy in measurements, faster response, and greater stability when measuring samples at varying temperatures.

- ROSS electrodes are compatible with any brand of meter
- ROSS electrodes are more stable over time, with very low drift, allowing for less frequent calibration and more sample throughput
- ROSS electrodes are silver and mercury-free to prevent sample contamination
- Double junction design makes ROSS electrodes useful in complex samples such as biological media, foods, pharmaceuticals, TRIS, sulfides and proteins
- ROSS Ultra™ electrodes have the longest warranty in the industry — up to two years

For more than 30 years, ROSS pH electrodes have been the "gold" standard of laboratories worldwide. A variety of styles and sizes are available for your sample and application:

- **ROSS standard electrodes** for the best accuracy, stability and temperature response you will find in any pH electrode anywhere.
- **ROSS Sure-Flow™ pH electrodes** have a unique free flowing junction that prevents the electrode from clogging and simplifies electrode maintenance
- **ROSS micro pH electrodes** have a 3mm tip diameter to measure samples as small as 15 µL and are more durable than standard micro pH electrodes
- **ROSS Ultra™ pH electrodes** offer all the advantages of ROSS technology plus a two year replacement warranty — double the warranty of most electrodes
- **ROSS Ultra pH/ATC Triode™ electrodes** include a built-in temperature sensor to measure both pH and temperature with one electrode, minimizing the amount of required sample

Electrodes

Fisher Scientific™ accumet™ Glass Membrane Sodium Half-Cell ISE – Mercury-Free

Glass body half-cell ISE for determination of sodium concentration

13-620-500

- Low drift, fast response, high selectivity ratio, good thermal stability and wide operating range
- Continuous electrical shielding and insulation of internal elements, cable and connector
- Extremely stable, reproducible readings with a minimum of electrical noise
- Rapid response time that lowers cost per test
- Individually tested, serialized to meet GLP requirements, and backed by the Fisher Scientific Technical Applications staff
- Glass body sodium indicating half-cell
- Specially formulated sodium responsive glass bulb
- Direct measurement of active sodium ion concentration

ORDERING INFORMATION:
Dimensions:

- Diameter: body, 0.5" (12.7mm); cap, 0.625" (16mm)
- Length: 4"L (10.2cm) body, 1.5"L (3.8cm) cap, 5.5"L (14cm)

Special note: Requires reference electrode, such as Single-junction Model 13-620-52, Double-junction Models 13-620-47 or 13-620-273.

Model	Glass Body Sodium Indicating	
Connectors	U.S. Standard	BNC
Lead	30" (76.2cm)	30" (76.2cm)
Cat. No.	**13-620-500**	**13-620-501**
Each	464.38	460.01

Fisher Scientific™ accumet™ Replacement Conductivity/TDS/ Temperature Probe — Mercury-Free

Replacement for:

13-620-AP54

- accumet AP75, AP85 Portable Meters
- Oakton™ CON 11, CON 110, CON 400, CON 410, pH/CON 300, TDS 400 Portable Meters
- Oakton CON 510, pH/CON 510 Benchtop Meters

Description	Cable Length	Mfr. No.	Cat. No.	Each
Conductivity/TDS/ Temperature Probe	3' (0.9m)	WD-35608-50	**13-620-AP54**	323.89

Fisher Scientific™ accumet™ Temperature-Compensated Two-Cell Conductivity Probes – Mercury-Free

For use on accumet Excel (XL) series benchtop meters

13-620 Series

- Immersion-type cell
- Use in standard electrode holder: unique compact size is same as typical pH electrode
- Built-in temperature sensors provide temperature-compensated readings
- Epoxy body

INCLUDES: 8-pin connectors

Cell Constant	Cat. No.	Price
0.1cm^{-1}	**13-620-101**	437.86
1.0cm^{-1}	**13-620-100**	444.29
10.0cm^{-1}	**13-620-102**	444.64

Fisher Scientific™ accumet™ Two-Cell and Four-Cell Conductivity Probes — Mercury-Free

For use with AR60, AR50, AR20, AB30 benchtop and AP65 portable meters

13-620 Series

Immersion-type cell's unique compact size is the same as a typical pH electrode — allowing use in standard electrode holder.

- Two- or four-cell types with glass or epoxy bodies
- Cell constants of 0.1, 1.0, or 10.0cm^{-1}
- Four-cell types feature built-in temperature sensors and 8-pin connectors
- Two-cell types have dual-pin connectors

REQUIRES: Two-cell types require separate ATC probe for temperature-compensated readings.

Body Type	Cell Constant (K)	Cat. No.	Each
Two-Cell			
Glass	0.1cm^{-1}	**13-620-156**	334.80
	1.0cm^{-1}	**13-620-155**	338.13
	10.0cm^{-1}	**13-620-157**	338.13
Epoxy	0.1cm^{-1}	**13-620-161**	335.83
	1.0cm^{-1}	**13-620-160**	337.13
	10.0cm^{-1}	**13-620-162**	337.13
Four-Cell			
Glass	1.0cm^{-1}	**13-620-163**	582.06
	10.0cm^{-1}	**13-620-164**	559.76
Epoxy	1.0cm^{-1}	**13-620-165**	553.23
	10.0cm^{-1}	**13-620-166**	531.03

Fisher Scientific™ accumet™ Solid-State Half-Cell ISEs — Mercury Free

For bromide, chloride, fluoride, lead and silver/sulfide determinations

13-620-521

Model	Bromide half-cell, epoxy body	Chloride half-cell, epoxy body	Fluoride half-cell, epoxy body	Silver/sulfide half cell, epoxy body
Applications	For aqueous solutions, certain nonaqueous solutions. Determine bromide in biological fluids, soil, plants, food, water, effluents. Method ATM approved.	For chloride determinations in water/wastewater, soil, dairy and tomato-based food products, meats, vegetables; and in research with biomedical fluids. Method ASTM and AOAC approved.	Determines fluoride in water/wastewater, stack gases, explosives, etching baths, bioresearch, beverages, detergents. Method ASTM/EPA approved.	For aqueous solutions, certain nonaqueous solutions. Determines silver/sulfide in water, pulping liquors.
Features	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Durable epoxy body is resistant to chemicals. Sensing membrane has low porosity and mirror-like finish to minimize sample retention.	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Durable epoxy body is resistant to chemicals. Sensing membrane has low porosity and mirror-like finish to minimize sample retention.	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Durable epoxy body is resistant to chemicals. Sensing membrane has low porosity and mirror-like finish to minimize sample retention.	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Durable epoxy body is resistant to chemicals. Sensing membrane has low porosity and mirror-like finish to minimize sample retention.
Connector	BNC	BNC	BNC	BNC
Cat. No.	**13-620-521**	**13-620-519**	**13-620-523**	**13-620-545**
Each	627.20	675.08	630.18	662.86

Fisher Scientific™ accumet™ Polymer Membrane Combination ISEs — Mercury-Free

Fast, precise measurements of calcium, nitrate and potassium ion in aqueous solutions over a wide range of concentrations

13-620-534

- Sensor sealed in epoxy body
- Sensing modules contain liquid internal filling solution in contact with gelled organophilic membrane
- Membrane is impregnated with a selective ion exchanger for ion of interest
- Sensors are sealed into durable epoxy body with built-in reference half-cell
- Permit fast, precise measurements in aqueous solutions over a wide range of concentrations
- Epoxy body provides chemical resistance

Features

- Tough, chemical-resistant epoxy body
- Membrane assembly sealed to body
- Continuous electrical shielding and insulation of internal elements, cable and connectors
- Extremely stable, reproducible readings with a minimum of electrical noise
- Lower detection limits than conventional ISEs
- Rapid response time that lowers cost per test
- Individually tested, serialized to meet GLP requirements and backed by the Fisher Scientific Technical Applications staff

Dimensions

- Diameter: body, 0.5" (12.7mm); cap, 0.625" (16mm)
- Length: body, 4" (10.2cm); cap, 1" (2.5cm); overall, 5" (12.7cm)

Model	Calcium Combination	Nitrate Combination	Potassium Combination
Lead	39" (1m)	39" (1m)	39" (1m)
Connector	BNC	BNC	BNC
Cat. No.	**13-620-536**	**13-620-534**	**13-620-532**
Each	704.87	744.62	735.83

Calcium Electrode

- Finds application in the testing of wine, beer, dairy products, foods, plants, pharmaceuticals, fertilizers, explosives, clay and soil
- Used as an endpoint detector in EDTA calcium titrations
- Filling solution is 4M KCl (with AgCl)

Nitrate Electrode

- Used in pollution testing, bioresearch, pharmaceutical production
- Determines nitrate in soils, plants, sewage, fertilizers, explosives, meats, pickling baths
- Filling solution is 0.1M $(NH_4)_2SO_4$/0.01M KCl (with Ag+)

Potassium Electrode

- Aids in analysis of serum, urine, saliva, other bodily fluids
- Used in testing soils, sewage, fertilizers, foods and beverages
- Filling solution is 5M NaCl

Specifications

Model	Calcium Combination	Nitrate Combination	Potassium Combination
Concentration Mode			
Range (Molar)	10^{-6} to 10^{-2}M	7×10^{-6} to 1M	100^{-6} to 1M
Range (ppm)	0.04 to 400ppm	0.5 to 62,000ppm	0.04 to 39,000ppm
Interferences	Mg^{2+}, Zn^{2+}, Ba^{2+}, K^+, Na^{2+}, Ni^{2+}, Cu^{2+}, Fe^{2+}, Sr^{2+}, H^+, Hg^{2+}, Pb^{2+}	Cl^{2-}, NO^-, Br^-, CN^-, ClO_3^-, I^-, ClO_4^-	Cs^+, NH_4, Tl^+, H^+, Ag^+, Tris$^+$, Li^+, Na^+
Operating pH Range	3 to 10pH	2.5 to 11pH	2 to 12pH
Operating Temperature Range	0° to 40°C (32° to 88°F)	0° to 40°C (32° to 88°F)	0° to 40°C (32° to 88°F)
Response Time	51 min. or less (above 10^{-5} Ca^+)	51 min. or less (above 10^{-5} NO_2)	51 min. or less (above 10^{-5} K^+)
Slope	+27±2mV/decade	+56±2mV/decade	-58±2mV/decade
Electrical Resistance	>1megohm	100megohms	10 to 20megohms

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ accumet™ Gas-Sensing Combination ISEs

For ammonia and carbon dioxide analyses; tough, chemical-resistant body; permanently bonded membrane/cap assembly — no difficult user assembly required

- Preassembled, pretested membrane/cap unit
- Assure optimum membrane tension and alignment, with no-leak operation
- Membrane is much less susceptible to surfactant deterioration: use it for extended periods in more varied solution types such as wastewater samples or process streams
- Noncrystallizing fill solution won't impede performance or cause membrane rupture
- With 39" (1m) lead

Features

- Tough, chemical-resistant body
- Bonded membrane/cap assembly
- Continuous electrical shielding and insulation of internal elements, cable and connectors
- Extremely stable, reproducible readings with a minimum of electrical noise
- Lower detection limits than conventional ISEs
- Rapid response time that lowers cost per test
- Individually tested, serialized to meet GLP requirements, and backed by the Fisher Scientific Technical Applications staff

Model	Ammonia Combination		Carbon Dioxide Combination
Connector	U.S. Standard/Pin	BNC	BNC
Lead	39" (1m)	39" (1m)	39" (1m)
Cat. No.	**13-620-508**	**13-620-509**	**13-620-511**
Each	674.39	667.90	749.51

13-620-509

Ammonia Combination ISE

- Determines ammonia and ammonium ion concentration in diverse samples
- Applications include sewage effluent, boiler water, industrial wastes, stack gases, food, fertilizers
- Measurements are unaffected by sample color, turbidity or suspended solids
- Gases such as CO_2, SO_2 and H_2S do not interfere
- Method has ASTM™ and EPA approval

Carbon Dioxide Combination ISE

- Measures carbon dioxide, carbonate and bicarbonate
- Applications include carbonated beverages, wines, groundwater, seawater

ORDERING INFORMATION:
Replacement membrane caps: Ammonia, 13-620-512; Carbon Dioxide, 13-620-513. Filling Solutions: Ammonia, ACCU-080-0500; Carbon Dioxide, 13-641-766.

Fisher Scientific™ accumet™ Gel-Filled Polymer Body Single-Junction pH Combination Electrodes — Mercury-Free

Rugged polymer construction for handheld use with aqueous samples in the classroom or in the field

- Standard-size polypropylene body
- Ideal for handheld use with aqueous samples
- Rugged construction for use anywhere rough handling and breakage are problems and where maintenance is difficult
- Glass pH bulb is recessed in tip for built-in protection
- Endcap seal keeps membrane moist between uses
- Ag/AgCl internal reference element, porous ceramic junction
- Filled with gelled 4M KCl saturated with AgCl electrolyte; never need refilling
- Measures 5.75" long (14.7cm) overall
- Full 0 to 14pH range
- Temperature range: -5° to +80°C (23° to 176°F)

13-620-108A

Description	Fill Solution	Connector[s]	Cat. No.	Each
Single junction, gelled Ag/AgCl reference	None	BNC	**13-620-108A**	152.64
Single junction, gelled Ag/AgCl reference	----	U.S. Standard/Pin	**13-620-104A**	153.73

Fisher Scientific™ accumet™ Gel-Filled Paper Pulp Double-Junction pH Combination Electrodes — Mercury-Free

Dual junctions provide fast response and long life in paper pulp testing

- Perfect for paper pulp testing, mine assay labs, smelters — anywhere junction clogging may be a problem
- Inner chamber houses reference element with gelled KCl and AgCl; the outer chamber contains KCl only
- Eliminates heavy metal ions that react with sulfide ions in samples such as black and green liquors
- No insoluble sulfide precipitates to block electrode junction and cause premature failure
- Polypropylene body
- Fisher Scientific universal glass membrane for rapid, reproducible response
- Glass tip is recessed in end

Fast and accurate

- Accuracy, ±0.05pH at 25°C (77°F)
- Efficiency, >95%
- Sodium Ion error, <±0.05pH at 25°C (77°F)
- Response time, 30 seconds
- Zero potential, 7.0 ±0.3pH
- Membrane resistance, P100 megohms at 25°C (77°F)

13-620-299A

APPLICATIONS:

- Ideal for routine process monitoring in paper pulp plants, mine assay labs, smelters
- Fits any application where the presence of S= in samples causes problems of slow response and junction failure

Connectors	Cat. No.	Each
BNC	**13-620-299A**	193.50
U.S. Standard/Pin	**13-620-283A**	206.18

Fisher Scientific™ accumet™ Liquid-Filled pH/ATC Epoxy Body Combination Electrodes — Mercury-Free

Single-junction models with Ag/AgCl reference element

- Rugged standard-size epoxy body
- Single porous ceramic junction
- Built-in ATC probe
- BNC pH/ATC connectors

APPLICATIONS:

- Rugged epoxy body for use in field or plant
- Ideal for handheld use with aqueous samples

13-620-530A

ORDERING INFORMATION:

- For use with accumet Excel (XL) Series, accumet Research (AR) Series and accumet Basic Series (AB15 and AB15 Plus) benchtop meters
- Endcap seal keeps membrane moist and ready

Description	Cap Color	Fill Solution	Connector	Temperature Range	Cat. No.	Each
pH/ATC Combination, Epoxy body, Single junction, Ag/AgCl reference	B	SP135-500	BNC/Mini-Phone ATC	-5° to +100°C (23° to 212°F)	**13-620-530A**	213.28

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ accumet™ Solid State Combination ISEs — Mercury-Free

For bromide, chloride, copper, cyanide, fluoride, lead and silver/sulfide determinations

Features

- Low drift, fast response, high selectivity ratio, good thermal stability and wide operating range
- Continuous electrical shielding and insulation of internal elements, cable and connector
- Extremely stable, reproducible readings with a minimum of electrical noise
- Rapid response time that lowers cost per test
- Individually tested, serialized to meet GLP requirements and backed by the Fisher Scientific Technical Applications staff

Combination models

- Feature a homogenous sensing membrane for wide application, rapid response, minimum sample retention, improved precision and lower detection limits
- In glass or epoxy body incorporating sensing and reference cells in a single probe

Bromide Combination ISE

- Detects bromide in aqueous solutions (and in some nonaqueous solutions)
- Useful in testing biological fluids, soils, plants, foods, water and effluents
- Method approved by ASTM™
- Glass body

Chloride Combination ISE

- Applications include testing of water/wastewater, soil, dairy and tomato-based food products, meats, vegetables and research with biomedical fluids
- Method is ASTM and AOAC approved
- Glass body

Cupric Combination ISE

- Used to determine copper in silicon, petrochemicals, plating water and wastes
- Glass body

Cyanide Combination ISE

- Measures cyanide ions in aqueous solutions
- For monitoring in petrochemical and plating processes, water supplies and manufacturing wastes
- Epoxy body

Fluoride Combination ISE

- Determines F^- concentration down to 1×10^{-6}M (0.02ppm)
- Applications include analyses of water, wastewater, stack gases, explosives, etching baths, research with biological fluids and tissues, beverages, detergents
- Method has ASTM and EPA approval
- Glass body

13-620-629

Lead Combination ISE

- Determines lead in organic compounds, biological samples, water/wastewater
- Glass body

Silver/Sulfide Combination ISE

- Determines silver and sulfide in water and pulping liquors
- Glass body

NOTES: Cyanide solutions are highly toxic; use a pipet bulb when preparing them. Acidic cyanide solutions produce hydrogen cyanide; procedures with these must be done in a fume hood. Measurements above 10^{-3}M should be done infrequently, as the cyanide ion slowly erodes the sensing membrane.

Specifications

Model	Bromide Combination	Cupric Combination	Cyanide Combination	Fluoride Combination	Lead Combination	Silver/Sulfide Combination
Ranges	5×10^{-6} to 1M/0.4 to 79,000ppm	10^{-8} to 10^{-1}M/6.4×10^{-4} to 6350ppm	5×10^{-6} to 10^{-2}M/0.1 to 260ppm	10^{-6}M to sat./0.02ppm to sat.	10^{-6} to 10^{-1}M/0.2 to 20,700ppm	10^{-7} to 1.0M (Ag^+/S^{2-})/0.01 to 107,900ppm Ag^+, 0.003 to 32,100ppm S^{2-} Hg^{2+}
Interferences	S^{2-}, I^-, CN^-, high levels of Cl^-, NH_3	Ag^+, Hg^{2+}, Cl^-, Br^-, Fe^{2+}, Cd^{2+}	Cl^-, Br^-, I^-, S^{2-} absent	OH^-	Ag^+, Hg^{2+}, Cu^{2+}, Cd^{2+}, Fe^{2+}	
pH Range	2 to 14pH	2 to 12pH	11 to 13pH	5 to 8pH	3 to 8pH	2 to 12pH
Operating Temperature Range	0° to 80°C (32° to 176°F)	0° to 80°C (32° to 176°F)	0° to 80°C (32° to 176°F)	0° to 80°C (32° to 176°F)	0° to 80°C (32° to 176°F)	0° to 80°C (32° to 176°F)
L × Dia.	108mm/13mm	108mm/13mm	102mm/13mm	108mm/13mm	108mm/13mm	108mm/13mm

Model	Bromide combination, glass body	Cupric combination, glass body	Cyanide combination, epoxy body	Fluoride combination, epoxy body		Silver/sulfide combination, glass body
Applications	For aqueous solutions, certain nonaqueous solutions. Determine bromide in biological fluids, soil, plants, food, water, effluents. Method ASTM approved.	Determines cupric content in silicon, petrochemical, plating and wastewaters.	Used to determine cyanide content of aqueous solutions for monitoring of water supplies, manufacturing wastes, silicon, petrochemical and plating processes.	Determines fluoride in water/wastewater, stack gases, explosives, etching baths, bioresearch, beverages, detergents. Method ASTM/EPA approved.		Determnines silver and sulfide in water and pulping liquors.
Features	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Glass body has excellent resistance to chemicals; incorporates sensing and reference cells in a single probe.	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Glass body has excelent resistance to chemicals; incorporates sensing and reference cells in a single probe.	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Durable epoxy body is resistant to chemicals; incorporates sensing and reference cells in a single probe.	Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Epoxy resin body has excellent resistance to chemicals; incorporates sensing and reference cells in a single probe.		Homogenous sensing membrane for fast response, minimal sample retention, improved precision and lower detection limits. Glass body has excelent resistance to chemicals; incorporates sensing and reference cells in a single probe.
Connector	BNC	BNC	BNC	BNC	U.S. Standard/Pin	BNC
Cat. No.	**13-620-525**	**13-620-547**	**13-620-538**	**13-620-629**	**13-620-528**	**13-620-551**
Each	853.68	938.73	656.43	812.16	844.77	875.31

Fisher Scientific™ accumet™ Micro and Semimicro Size Glass Combination Electrodes – Mercury-Free

13-620-94

- Zero to 14pH range
- Ideal for microwell plates, serum cups, cuvets, micro test tubes, NMR tubes and capillary tubes

Description	Cat. No.	Each
Micro tip, miniature length, Ag/AgCl reference	**13-620-94**	281.18

Fisher Scientific™ accumet™ Micro and Semimicro Size Glass Combination Electrodes

13-620-96

- Zero to 14pH range
- Contains mercury
- Ideal for microwell plates, serum cups, cuvets, micro test tubes, NMR tubes and capillary tubes

ALERTS:

The products indicated contain mercury. Don't put products containing mercury in the trash. Products containing mercury are to be recycled or disposed of as hazardous waste. Products containing mercury may be regulated by local, state or federal laws. Some products containing mercury are not available for sale in some states.

Models		
Type	***MicroTip Calomel***	
Special Note	6"L (15.2cm) stem. 10"L (25.4cm) overall.	1 1/2"L (3.8cm) stem. 5"L (12.7cm) overall
Lead	39.4" (100cm)	39.4" (100cm)
Connector	BNC	BNC
Contains Mercury	Yes	Yes
Cat. No.	**13-620-95**	**13-620-96**
Each[2]	396.58	361.59

Fisher Scientific™ accumet™ Mercury-Free Silver Billet Half Cell Electrode

For silver and halide titrations

13-620-122

- Extra-large silver billet half cell
- Glass body, 14cmL
- Temperature range -5° to +100°C (23° to 212°F)
- Body, 10mm diameter
- Pin connector

REQUIRES:

- Requires compatible reference electrode; suggested reference electrodes are 13-620-216, 13-620-273, 13-620-47
- Requires 13-640-150 pin jack adapter for U.S. standard inputs or 13-620-490 BNC input adapter for BNC inputs

Description	Cat. No.	Each
Glass Body, Silver Billet	**13-620-122**	251.34

Fisher Scientific™ accumet™ Gel-Filled Pencil-Thin pH Combination Electrodes – Mercury-Free

For easy measurement of small samples in long and narrow vessels

13-620-290

- Rugged and versatile
- Extra long and thin: body measures 7" long (178mm); only 0.25" (6mm) in diameter
- Rugged polymer construction for handheld use
- Filled with gelled 4M KCl saturated with AgCl electrolyte; never needs refilling
- Endcap seal keeps membrane moist and ready
- Porous ceramic single junction

Fast and accurate

- Accuracy, ±0.05pH at 25°C (77°F)
- Efficiency, >95%
- Sodium Ion error, <±0.05pH at 25°C (77°F)
- Response time, 30 seconds

APPLICATIONS:

- Aqueous samples in the classroom or in the field
- Anywhere rough handling and breakage are problems, and maintenance is difficult
- Small samples in long, narrow vessels

Model	accumet Pencil-Thin Epoxy Body Combination
Cap Color	Blue
Fill Solution	None
Connector[s]	BNC
pH Range	0 to 14pH
Temperature Range	-5° to +80°C
Length/Dia.	178mm/6mm
Cat. No.	**13-620-290**
Each	215.75

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ accumet™ Liquid-Filled Mercury-Free pH/ATC Epoxy Body Combination Electrodes

TRIS compatible, rugged and convenient

- Rugged standard-size epoxy body
- Double-junction design prevents reference contamination; compatible with TRIS applications; mercury-free
- Liquid filled design provides quick response
- Porous ceramic junction, Ag/AgCl reference
- Built-in ATC probe

APPLICATIONS:

- Rugged epoxy body for use in field or plant
- Ideal for handheld use with aqueous samples
- Double-junction design eliminates measurement problems and clogging in research with TRIS buffers

ORDERING INFORMATION:

- 13-620-631 is for use with Fisher Scientific accumet Excel (XL) Series, Research (AR) Series and Basic Series (AB15 and AB15 Plus) benchtop meters
- Endcap seal; keeps membrane moist and ready

INCLUDES:
Electrode, 60mL refill solution, electrode storage bottle

REQUIRES:
Requires filling solution: Cat. No. SP138500.

Applications/Sample Types	
Model	**accumet pH/ATC Double-Junction Ag/AgCl**
General Purpose	X
Biological/Pharmaceutical/TRIS Compatible	X
Field or Plant Use	X
Rugged Use	X

Description	Cap Color	Connector	pH Range	Temperature Range	Length/Dia.	Cat. No.	Each
pH/ATC Combination, Epoxy Body, Double-Junction, Ag/AgCl reference	P	BNC and Mini-Phone ATC	0 to 14pH	0° to 100°C (32° to 212°F)	106mm/12mm	**13-620-631**	229.21

Fisher Scientific™ accumet™ Universal pH/ATC Electrodes

Combination pH mercury-free electrodes with built-in temperature compensation

Recommended for all routine pH measurements including readings at low temperatures.

- Fast, accurate response from 5° to 100°C (41° to 212°F)
- Compatible with TRIS, proteins and sulfides
- Epoxy body is impact resistant and ideal for rough handling
- Feature FS-5 Universal Glass Membranes with low electrical resistance – less than 100MΩ at 25°C
- Sodium error is less than 0.1pH (in 0.1 N NaOH at 25°C)

INCLUDES:
Cable with BNC and ATC connectors, electrode storage bottle

Universal pH/ATC Electrode

Description	ATC	Works with	Cat. No.	Price
Double Junction, Gel, Epoxy Body pH/ATC Electrode	3.5 Audio Plug	Beckman™ meters	**13-621-702**	299.75
Double Junction, Gel, Epoxy Body pH/ATC Electrode	RCA (Cinch) plug	METTLER™, Pinnacle™ and Corning™ meters	**13-621-701**	299.75
Double Junction, Gel, Epoxy Body pH/ATC Electrode	Banana plug	WTW™, Pinnacle (part numbers ending in P) meters	**13-621-703**	299.75
Double Junction, Gel, Epoxy Body pH/ATC Electrode	MiniDIN	ATC for Thermo Scientific™ Star™ Meters	**13-620-111T**	299.75

Fisher Scientific™ accumet™ Probe and Replacement Paddle

Simple "Plug and Stir" technology for accumet XL and AB series meters

Provides mixing without magnetic stir bars or stir plates required.

- Saves valuable bench space
- Quiet operation
- Adjustable speed control
- No additional power required
- Multi-parameter XL benchtop models can accept up to two probes for simultaneous stirring

13-620-181

ORDERING INFORMATION:
Compatible with the following models: XL150, XL200, XL250, XL500, XL600, AB150, AB250, AB200.

WARRANTY:
One year

Description	Cap Color	Fill Solution	Connector[s]	pH Range	Temperature Range (°C)	Length/Dia. (mm)	Cat. No.	Each
Single junction, Ag/AgCl reference	B	SP135-500	BNC	0 to 14	80° to 100°C	102mm/10mm	**13-620-181**	231.29
Single junction, Ag/AgCl reference	B	SP135-500	U.S. Standard/Pin	0 to 14pH	80° to 100°C	102/10	**13-620-180**	247.83
Double junction, Ag/AgCl reference	P	SP138-500	BNC	0 to 14pH	80° to 100°C	102	**13-620-183A**	257.11
Double junction, Ag/AgCl reference	P	SP138-500	U.S. Standard/Pin	0 to 14pH	80° to 100°C	102	**13-620-182A**	260.49
Double junction, Ag/AgCl reference; built-in temperature control	P	SP138-500	BNC	0 to 14pH	80° to 100°C	102	**13-620-632**	353.50

Fisher Scientific™ accuTupH™ Rugged Bulb pH Combination Electrodes — Mercury-Free

13-620-BSP

Description	Cat. No.	Each
Accessory stirring probe, compatible with second generation accumet AB and XL meters	**13-620-BSP**	252.50
Replacement Paddle with Stirring Rod	**13-620-RP**	40.52

Fisher Scientific™ accumet™ pH/ATC Electrodes for AP60 and AP100 Series Meters — Mercury-Free

Combination electrodes with built-in ATC probe

13-620-AP50A

- 0 to 14pH range
- 0° to 100°C temperature range
- Length: 102mm; diameter: 10mm
- With BNC/Mini-Phone waterproof connector for AP60 Series portable models

Description	Contains Mercury	Cat. No.	Each
Single-junction Ag/AgCl	No	**13-620-AP50A**	218.99

Fisher Scientific™ accumet™ Electrode Storage Solution

- Solution of potassium hydrogen phthalate — potassium chloride conditions electrodes when not in use

Description	Quantity	Mfr.No.	Cat. No.	Price
Electrode Storage Solution	1L	BPSE40-1	**SE40-1**	65.60

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ accumet™ Glass Membrane Sodium Combination ISE

Combination ISE for determination of sodium ion concentration

13-620-503A

- Epoxy body sodium combination ISE
- Specially formulated sodium-responsive glass bulb
- Direct measurement of active sodium ion concentration
- Integral calomel reference half-cell with saturated KCl electrolyte
- Porous ceramic junction
- Tough epoxy body

Features

- Low drift, fast response, high selectivity ratio, good thermal stability and wide operating range
- Removable end protector guards against breakage of the glass bulb, permits easy cleaning
- End-cot closure simplifies storage, eliminates soaking bottles
- Continuous electrical shielding and insulation of internal elements, cable and connector
- Extremely stable, reproducible readings with a minimum of electrical noise
- Rapid response time that lowers cost per test
- Individually tested, serialized to meet GLP requirements, and backed by the Fisher Scientific Technical Applications staff

Applications

- Sodium testing in meats, fish, dairy products, fruit juices, brewing water, groundwater, seawater, soils, body fluids
- Ideal for measurements of small samples or testing in small vessels

Dimensions

- Diameter: body, 0.5" (12.7mm); cap, 0.625" (16mm)
- Length: 4.5"L (11.4cm) body, 1"L (2.5cm) cap, 5.5"L (14cm) overall; With 30" (76.2cm) lead

Model	Sodium Combination, epoxy body
Special Note	Rugged polymer body with glass bulb, calomel internal reference, removable bulb protector
Connectors	BNC
Lead	30" (76.2cm)
Cat. No.	**13-620-503A**
Each	609.85

Fisher Scientific™ accumet™ Automatic Temperature Compensation Probes – Mercury Free

For accumet benchtop and portable meters

13-620-19

- Signal solution temperature to meter for automatic compensation
- Permit temperature readout with meters having this feature
- Probes for accumet AP Series portable meters have waterproof connector

For accumet Models	Connector	Cat. No.	Each
Benchtops			
150, 50, 30, 25, 20, 15, 10, 950, 925, 915, 900, 825MP, 815MP, 805MP, 750	1/4" Phone Plug	**13-620-16**	262.53
Benchtops and Portables			
XL15, XL20, XL25, XL50, XL60, AB15, AB30, AR10, AR15, AR20, AR25, AR50, AR60, 1003, 1002, 1001, BASIC	Mini-Phone Plug	**13-620-19**	208.61
Portables			
AP63, AP62, AP61	Mini-Phone Plug	**13-620-AP53**	210.70

Fisher Scientific™ accumet™ Liquid-Filled Polymer Body Combination Electrodes – Mercury-Free

Ideal for measurements in small vessels or with small samples

13-620-287A

Standard pH Combination Electrodes

- Rugged polypropylene body — ideal for handheld use with aqueous samples
- Endcap seal keeps membrane moist and ready
- 0 to 14pH range
- All have porous ceramic junction
- Available with single-junction Ag/AgCl reference or with double-junction Ag/AgCl reference

Description	Cat. No.	Price
Double junction pH combination; Ag/AgCl reference; polypropylene body; BNC connector	**13-620-221**	208.10
Single junction pH conbination; Ag/AgCl reference; Polypropylene body; BNC connector	**13-620-287A**	185.99

Fisher Scientific™ accumet™ Gel-Filled Polymer Body pH/ATC Double-Junction Combination Electrodes – Mercury-Free

Combine the convenience of a combination electrode with built-in ATC probe

- Three-in-one construction for convenient testing of small samples using a single probe
- Gel-filled reference cell and Fisher Scientific universal glass membrane recessed in end for rapid, reproducible response
- Rapid pH testing in the field or with difficult samples
- Dual junctions provide fast response and long life anywhere junction clogging may be a problem
- Inner chamber houses reference element with gelled KCl and AgCl; outer chamber contains KCl only
- Permanently gel filled

Epoxy Body Model 13-620-111 with BNC/Mini-phone Connectors

- For accumet Excel (XL) and accumet Research (AR) Series
- For accumet Basic Series AB15, AB15 Plus
- For discontinued accumet 1000 portable
- For discontinued accumet BASIC models

13-620-111

Epoxy Body Model 13-620-112 with BNC/0.25" Phone Connectors

- For discontinued accumet benchtop Models 50, 25, 20, 15, 10, 5 and 30

Epoxy Body Model 13-620-AP52 with BNC/Mini-phone Waterproof Connector

- For use with accumet AP61, AP62, AP63 portable meters

Description	Cap Color	Fill Solution	Connectors	Cable Length	pH Range	Operating Temperature Range (°C)	Cat. No.	Each
pH/ATC, Epoxy Body, Double junction, Ag/AgCl reference	P	----	BNC/Mini-phone ATC	30" (76cm)	0 to 14	-5 to +80	**13-620-111**	305.98
pH/ATC, Epoxy Body, Double junction, Ag/AgCl reference	P	----	BNC/1/4" Phone ATC	30" (76cm)	0 to 14	-5 to +80	**13-620-112**	324.90
Double junction Ag/AgCl	P	----	Waterproof BNC/Mini-Phone ATC	30" (76cm)	0 to 14	-5 to +80	**13-620-AP52**	363.41

Fisher Scientific™ accumet™ Glass Body Standard Size Combination Electrodes – Mercury-Free

For routine pH and titration measurements with small samples and small vessels, where separate half-cell electrodes may be impractical

- 0 to 14pH range
- Porous ceramic junction
- Twist-open/twist-close cap for easy filling
- Constant distance between FS-5 Universal Glass pH bulb and reference junction means high reproducibility
- Immersion depth, ~4" (10cm)
- 30" long (76.2cm) leads

Choice of Ag/AgCl Single- or Double-Junction internal reference elements

- Single-junction models with Ag/AgCl reference are perfect for routine pH and titration measurements of aqueous solutions with small samples, small vessels
- Double-junction models with Ag/AgCl reference are useful in aqueous and nonaqueous solutions, and in applications requiring TRIS buffers

13-620-285

APPLICATIONS:

- For aqueous and nonaqueous samples
- Double-junction Ag/AgCl eliminate measurement and clogging problems when used in research with Tris buffers

INCLUDES: Removable bulb protector

Description	Cap Color	Fill Solution	Connectors	Cable Length	Operating Temperature Range (°C)	Mfr. No.	Cat. No.	Each
Single junction, Ag/AgCl reference	B	SP-135-500	BNC	30"76cm	-5 to +100°	ZZ-35902-85	**13-620-285**	239.55
Double junction, Ag/AgCl reference	P	SP-138-500	BNC	30"76cm	-5 to +100°	13620223A	**13-620-223A**	233.97

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ accumet™ Liquid-Filled Epoxy Body pH Combination Electrodes

Single-junction standard-size Calomel model

- Rugged epoxy body
- Single porous ceramic junction
- BNC connector

APPLICATIONS:

- Rugged epoxy body for use in field or plant
- Ideal for handheld use with aqueous samples
- Standard-size epoxy body, eliminates measurement problems and clogging in research with TRIS buffers

ORDERING INFORMATION:

- For use with pH meters having BNC connection, including accumet Excel (XL) Series, accumet Research (AR) Series and accumet Basic Series (AB15 and AB15 Plus) benchtop meters
- Endcap seal keeps membrane moist and ready

13-620-288

ALERTS:
The products indicated contain mercury. Don't put products containing mercury in the trash. Products containing mercury are to be recycled or disposed of as hazardous waste. Products containing mercury may be regulated by local, state or federal laws. Some products containing mercury are not available for sale in some states.

Description	Cap Color	Fill Solution	Connector	pH Range	Temperature Range	Length/Dia.	Contains Mercury	Cat. No.	Each
pH Combination, Epoxy Body, Single junction; Calomel reference; BNC connector	P	SP138-500	BNC	0 to 14	-5° to +80°C (23° to 176°F)	106mm/10mm	Yes	**13-620-288**	225.81

Fisher Scientific™ accumet™ Liquid-Filled Epoxy Body pH Combination Electrodes — Mercury-Free

13-620-289

Single-junction Ag/AgCl flat surface model

- Rugged epoxy body
- Single porous ceramic junction
- BNC connector

APPLICATIONS:

- Rugged epoxy body for use in field or plant
- Ideal for handheld use with aqueous samples
- Flat surface, 114mm length, 13mm dia.

ORDERING INFORMATION:

- For use with pH meters having BNC connection, including accumet Excel (XL) Series, accumet Research (AR) Series and accumet Basic Series (AB15 and AB15 Plus) benchtop meters
- Endcap seal keeps membrane moist and ready

Dia.	Cat. No.	Each
114mm/13mm	**13-620-289**	278.35

Fisher Scientific™ accumet™ Liquid-Filled Polymer Body Combination Electrodes

Ideal for measurements in small vessels or with small samples

13-620-300

Standard pH Combination Electrodes

- Rugged polypropylene body — ideal for handheld use with aqueous samples
- Endcap seal keeps membrane moist and ready
- 0 to 14pH range
- All have porous ceramic junction
- Single-junction calomel model

APPLICATIONS:
Calomel model eliminates measurement problems and clogging in research with Tris buffers.

Description	Mfr. No.	Cat. No.	Each
Single junction pH combination; Calomel reference; polypropylene body; BNC connector	ZZ-35903-00	**13-620-300**	229.50

Thermo Scientific™ Orion™ Green Electrodes

- RoHS compliant — no lead, mercury or other hazardous materials
- No disposal issues, no disposal cost
- Choice of single-junction models for clean-water measurements, or double-junction models for dirty-water testing
- Choice of refillable or low-maintenance gel-filled models
- Durable epoxy body
- pH Range: 0 to 14

13620150

- Dimensions: 120 × 12mm, cap dia. 16mm
- Waterproof BNC connector, 1m cable; fit any meter with BNC input

Description	Temperature Range	Junction	Cable Length	Connector[s]	For Use with	Mfr. No.	Cat. No.	Each
Single junction, low-maintenance gel-filled	0° to 90°C	Wick	1m	Waterproof BNC	All meters with BNC input	GS9106BNWP	**13620150**	144.28
Single junction, liquid-filled	0° to 90°C	Glass fiber				GS9156BNWP	**13620152**	194.90
Double junction, low-maintenance gel-filled	0° to 90°C	Wick				GD9106BNWP	**13620151**	177.33
Double junction, liquid-filled	0° to 90°C	Glass fiber				GD9156BNWP	**13620153**	215.68

Thermo Scientific™ Orion™ Chloride Combination Electrode – Mercury-Free

13-620-627

Description	Mfr. No.	Cat. No.	Price
Chloride Combination Electrode	13-620-627	**13-620-627**	805.01

LabReporter QUARTERLY MAGAZINE

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Thermo Scientific™ Orion™ Ion-Selective Gas-Sensing Combination Electrodes

Ammonia, carbon dioxide, nitrogen oxide combination electrodes have sensing element separated from the sample by a membrane

Use screw-on caps with bonded membrane or loose membranes secured by separate cap.

- All models have rugged epoxy body
- All are 5.87" long (15.1cm); with 29.5" (75cm) cable
- Sample temperature range: 0° to 50°C (32° to 122°F)

13-642-263

ORDERING INFORMATION:
Also available: Thermo Scientific Orion Ammonia HP High Performance Gas-Sensing ISEs. See 13-643-500.

INCLUDES:
One bottle of ammonia electrode fill solution (951202), box of 20 membranes (951204) and tweezers

Type	Concentration Range	Interferences	Connector[s]	Mfr. No.	Cat. No.	Each
Ammonia	1 to 5 × 10^{-7}M; 17,000 to 0.01ppm.	Volatile amines	Waterproof BNC	9512BNWP	**13-642-263**	719.72

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Orion™ High-Performance Ammonia Electrode

Provides fast, reliable results at low levels

The ideal product for drinking water and wastewater laboratories, the Orion Ammonia Ion Selective Electrode saves time in analysis and maintenance while providing unsurpassed quality, accuracy and performance. The high-performance ammonia electrode provides quick results in readings down to 0.01ppm. You can apply your own membranes or rely on the preassembled membrane that delivers the accuracy of a stretched membrane with the convenience of a membrane cap. All you need to do is thread the pre-assembled body and membrane on the electrode. The electrode also features a translucent body so you can always easily monitor the level of fill solution.

- Low detection limits: accurate readings down to 0.01ppm
- Rapid response time of 1 minute in sample concentrations of 1ppm and higher; speedy results make it easy to combine functionality with autosamplers
- Easiest electrode maintenance: keying feature on the electrode body prevents the membrane from twisting or breaking during assembly

13-643-500

- Increased durability: translucent body with improved chemical-resistance
- Choice of preassembled outer body with membrane cap or loose membranes
- New wastewater applications developed using known addition and direct measurement techniques
- EPA-compliant method
- 120mm length, 12mm diameter

INCLUDES:
High performance ammonia electrode with waterproof BNC connector and one meter cable, 20 loose membranes (951214), one preassembled outer body and membrane cap (951215), two 60mL bottle of electrode filling solution (951209), spout cap and tweezers

Description	Concentration Range	Interferences	Temperature Range	Filling Solution	Body Length	Outside Dia.	Cable Length	Connector(s)	Mfr. No.	Cat. No.	Each
Ammonia High Performance Ion Selective Electrode	1 to 5 × 10^{-7}M; 17,000 to 0.01ppm	Volatile amines	0° to 50°C	Ammonium Chloride (NH_4Cl, >1%)	120mm	12mm	1m	Waterproof BNC	9512HPBNWP	**13-643-500**	726.14

Fisher Scientific™ accupHast™ Variable Temperature pH Combination Electrodes – Mercury-Free

Fast, accurate response despite temperature changes

- Patented design with dual ceramic junctions, sealed Ag/AgCl reference and special electrolyte
- Eliminate slow response when measuring samples at different temperatures in quick succession
- Accurate to ±0.01pH at 25°C and ±0.05pH from -5° to +100°C
- Response time, 20 seconds or less; negligible drift

Improved flow, less contamination

- Isolated reference element and outer KCl fill solution
- Eliminates clogging from silver compound precipitates
- No silver or mercury to contaminate samples
- Choice of standard and MicroProbe™ glass or extra-long epoxy bodies

accupHast Standard Glass Body Electrode

- Standard size glass body
- Immersion to 102mm
- Body and tip diameter, 10mm

13-620-296

accupHast MicroProbe Glass Body Electrode

- Semimicro size glass body
- Immersion to 165mm
- Body diameter, 10mm; tip diameter, 5mm

accupHast Extra-Long Epoxy Body Electrode

- Extra-long epoxy body
- Immersion to 140mm
- Body diameter, 10mm

accupHast Extra-Long Epoxy Body pH/ATC Electrode

- Extra-long epoxy body
- Built-in ATC probe
- Immersion to 143mm
- Body diameter, 10mm

Description	Cap Color †	Fill Solution ‡	Connector[s]	pH Range	Temperature Range (°C)	Length/Dia. (mm)	Cat. No.	Each
Standard glass body	P	SP138-500	BNC	0 to 14	-5° to +100°C	102mm/10mm	**13-620-296**	426.44
MicroProbe glass body	P	SP138-500	BNC	0 to 14	-5° to +100°C	165mm/5mm	**13-620-297**	539.64
MicroProbe glass body	P	SP138-500	U.S. Standard/Pin	0 to 14	-5° to +100°C	165mm/5mm	**13-620-298**	545.57
pH/ATC, extra-long epoxy body	P	SP138-500	BNC/$^1/_4$" Phone ATC	0 to 14	-5° to +100°C	143mm/10mm	**13-620-113**	530.49
pH/ATC, extra-long epoxy body	P	SP138-500	BNC/Mini-Phone ATC	0 to 14	-5° to +100°C	143mm/10mm	**13-620-114**	493.57

† Cap Color: P (Purple) = biological, pharmaceutical and Tris applications; NA = no color code.
‡ Fill Solution: Cat. No. SP138-500 saturated KCl.

Fisher Scientific™ accuCap™ Capillary Junction pH Combination Electrodes – Mercury-Free

Large junction for increased flow, minimal clogging

13-620-130

Better junction

- Single-pore capillary junction is ~200 times larger than typical ceramic junctions
- Almost impossible to clog, even in difficult samples
- Increased electrolyte flow, greater contact between sample and reference, fast and stable readings

Better reference design

- Double junction design for enhanced performance
- Diffusion barrier separates silver chloride reservoir from reference electrolyte
- Permits use of silver-free electrolytes, prevents silver chloride loss from temperature-induced variations
- Results in an extremely stable reference potential, providing long electrode life

Most accurate

- Testing at German Federal Physical Technical Institute in Braunschweig determined this electrode design to be the most accurate laboratory electrode
- See Traceability of pH measurement by Petra Spitzer; ISBN 3-89429-877-4 or SSN 0947-7063

accuCap Glass Body Fluid Gel Refillable Electrode

- Unique fluid-gel electrolyte and accuCap junction provide faster flowrate, improved contact between electrolyte and sample
- Faster response time and very accurate readings
- Double-liquid-junction further extends diffusion barrier for increased electrode life in aggressive samples
- Also performs well in liquids with low ion concentration and in partly aqueous samples

accuCap Glass Body Gel-Filled Electrode

- Standard glass body and pH membrane
- Solid polymer-gel electrolyte offers the advantages of the accuCap system in a maintenance-free version
- Provides a more stable matrix than other gelled electrode reference systems
- Gives reliable results in very dirty, ion-weak or protein samples
- Reliable even at low pH or in presence of organic solvents

accuCap Plastic Body Gel-Filled Electrode

- Standard plastic body and glass pH membrane
- Solid polymer-gel electrolyte offers the advantages of the accuCap system in a maintenance-free version
- Provides a more stable matrix than other gelled electrode reference systems
- Gives reliable results in very dirty, ion-weak or protein samples
- Reliable even at low pH or in presence of some organic solvents (check compatibility before measuring)

accuCap Glass Body Gel-Filled Spear Tip Electrode

- Glass body and pH membrane
- Rugged spear tip is ideal for soft foods
- Polymer gel electrolyte provides reliable performance with difficult samples

Description	Cap Color †	Fill Solution ‡	pH Range	Temperature Range (°C)	Length/Dia.	Cat. No.	Each
Glass body, refillable	P	13-636-430	0 to 14pH	0° to 80°C	160mm/12mm	**13-620-130**	515.34
Glass body, gel-filled	P	----	0 to 14pH	0° to 80°C	130mm/12mm	**13-620-131**	399.44
Plastic body, gel-filled	P	----	0 to 14pH	0° to 60°C	120mm/12mm	**13-620-132**	253.17
Glass body, gel-filled, spear tip	P	----	2 to 14pH	0° to 50°C	25mm/6mm ††	**13-620-133**	474.01

†Cap Color: B (Blue) = standard pH measurements; P (Purple) = biological, pharmaceutical and TRIS applications; NA = no color code.
‡Fill Solutions: Cat. No 13-636-430 is fluid-gel KCl solution.
††Dimensions are for insertion portion of electrode body; overall length is 70mm.

Fisher Scientific™ accuTupH Plus™ Rugged Bulb Variable Temperature pH Combination Electrode

- 0 to 14ph range
- -5 to +100°C range
- 102mmL, 10mm dia.

13-620-185

Description	Connector[s]	Mfr. No.	Cat. No.	Each
Double junction, glass body	BNC	ZZ-35901-85	**13-620-185**	455.83

Fisher Scientific™ accupHast™ R Rugged Variable Temperature pH Combination Electrodes – Mercury-Free

Fast response despite temperature changes plus extra durability

Innovative reference system prevents precipitation of solution components at reference element from 0° to 100°C. Internal electrolyte has minimal temperature coefficient.

- Electrodes are predictable, reliable and quick to respond at any temperature
- Cycled between samples at 25° and 80°C, reach reproducible pH in 30 seconds
- Read pH in <20 seconds, correct to ±0.02pH; pH value stays constant at any temperature
- Read pH consistently at elevated temperatures, without premature loss in performance
- Choose from glass body double-junction model, or from glass and epoxy body models with accuFlow™ flushable junction

13-620-195

accupHast R Standard Glass Body

- Standard glass body, 102mm L × 10mm diameter
- Double junction reference cell
- Saturated KCl electrolyte; suitable for biological, pharmaceutical and Tris applications
- Twist cap open to refill, twist closed to seal

accupHast R Flushable Junction

- Standard glass or epoxy body, 102mm L × 10mm diameter
- accuFlow flushable double junction eliminates clogging
- No ceramic frit or fiber junction — for improved service life, reproducible results, easy maintenance
- Press down on cap to flush viscous solutions and small particles away from reference junction
- Saturated KCl electrolyte; suitable for biological, pharmaceutical and Tris applications

Description	Cap Color	Fill Solution	Connector	pH Range	Temperature Range (°C)	Length/Dia. (mm)	Cat. No.	Each
Standard Glass Body	Purple	SP138-500	BNC	0 to 14pH	-5 to +100°C	102mm/10mm	**13-620-195**	442.82
Glass Body, flushable junction	N/A	SP138-500	BNC	0 to 14pH	-5 to +100°C	102mm/5mm	**13-620-197**	504.04
Epoxy Body, flushable junction	N/A	SP138-500	BNC	0 to 14pH	-5 to +100°C	102mm/10mm	**13-620-196**	532.44

Fisher Scientific™ accuFet™ XL Solid-State pH Combination Electrodes — Mercury-Free

Solid-state pH electrodes with no-glass construction

Combination electrode/ATC probes in a glass-free design:

- Use directly with accuFet Excel Series meters in pH mode
- Replace fragile glass pH-sensing membrane with rugged, solid-state Ion-Selective Field Effect Transistor (ISFET)
- Reference cells contain gelled Ag/AgCl electrolyte, for high performance with low maintenance
- Porous junctions provide extra-long service
- Built-in temperature probes for accurate measurements in a minimum of space
- Durable polyetherimide (PEI) body takes all the rough handling you can dish out
- Nonglass sensor remains unscathed, even by abrasive soil samples encountered in environmental testing
- Gives you high reproducibility, excellent stability and fast response time without risk of breaking a glass body or delicate glass bulb

The cost-effective solution for high-risk applications

- For aqueous solutions, viscous samples, even semisolids
- For situations where breakable glass electrodes could be hazardous — food, beverage and pharmaceutical processing, for example
- Ideal both for rapid, routine, high-workload measurements and for reliable measurement of difficult samples in environmental, pharmaceutical, food and beverage applications

13620700

- Rapid, reproducible results even in thick, glutinous samples: simply wipe unbreakable sensing element to remove sticky, viscous substances — even peanut butter and bread dough — to eliminate sample carryover

Choose from two models to match most applications

- Choose from cone or cup tip
- Both can be used for general-purpose immersion
- Have gel-filled reference and DIN connector for use with accumet Excel Series meters only

accuFet XL Cone Tip Electrode

- Cone-shaped tip
- Fine for general-purpose immersion measurements
- Excels at semi-solid sample measurements

accuFet XL Cup Tip Electrode

- Cup-style tip
- Measures with just a few drops of sample

Description	Cap Color	Fill Solution	Connectors	pH Range	Temperature Range (°C)	Length/Dia. (mm)	Cat. No.	Each
Cone tip, ISFET sensor, Ag/AgCl reference	None	None	DIN	0 to 14pH	-5° to +105°C	160/10	**13620700**	1206.06

Fisher Scientific™ accuFet™ Solid-State pH/ATC Combination Electrodes — Mercury-Free

Rugged, unbreakable ISFET sensor for difficult measurements

13-620-755

- ISFET solid-state pH sensor plus reference and ATC probe — in one tough epoxy body
- Use directly with accumet™ AR, AB15, AP15P or BASIC
- Replaces fragile glass pH-sensing membrane with rugged, solid-state Ion-Selective Field Effect Transistor (ISFET)
- Reference cell contains gelled Ag/AgCl electrolyte, for high performance with low maintenance
- Porous junction provides extra-long service
- Built-in temperature probe for accurate measurements in a minimum of space
- Durable epoxy body takes all the rough handling you can dish out
- Nonglass sensor remains unscathed, even by abrasive soil samples encountered in environmental testing

A cost-effective solution for high-risk applications

- For aqueous solutions, viscous samples, even semisolids
- For situations where breakable glass electrodes could be hazardous — food, beverage and pharmaceutical processing, for example
- Ideal both for rapid, routine, high-workload measurements and for reliable measurement of difficult samples in environmental, pharmaceutical, food and beverage applications
- Rapid, reproducible results even in thick, glutinous samples: simply wipe unbreakable sensing element to remove sticky, viscous substances — even peanut butter and bread dough — to eliminate sample carryover

For use with a variety of meters

- accuFet electrode 13-620-755 with DIN connector is for use with accumet Research (AR) and accumet Basic (AB) benchtop models — no adapter needed

Connector[s]	pH Range	Length/Dia. (mm)	Cat. No.	Each
DIN	0 to 14pH	140mm/12	**13-620-755**	750.84

Thermo Scientific™ Orion™ pH Electrode Holder

Description	Mfr. No.	Cat. No.	Price
Holder for pH electrode storage sleeve	STARAESPH	**13-645-600**	27.08

Thermo Scientific™ Orion™ Conductivity and DO Probes Holder

Description	Mfr. No.	Cat. No.	Price
Conductivity and DO Probes Holder	STARAESCD	**13-645-601**	27.08

Thermo Scientific™ Orion™ Storage Sleeve and Base

Protects electrodes from breakage when not in use

The Thermo Scientific Orion Storage Sleeve and Base is for use with pH electrodes that are 120mm or less in length that have a diameter of 12mm. The sleeve protects your electrode from breakage when not in use and it won't tip over due to its weighted removable base.

- Covers entire glass body of standard size pH electrodes (12 – 120mm)
- pH bulb stays conditioned when not in use
- Sleeve can be removed from base to store in electrode holder

13-642-145

Description	Mfr. No.	Cat. No.	Each
Storage sleeve and base	810017	**13-642-145**	50.95

Thermo Scientific™ Orion™ AquaPro™ pH Combination Electrodes

High-performance combination electrodes with isolated Ag/AgCl internals

Feature improved electrode life, low maintenance, fast response time and clean junctions. Patented reference system and double-junction design prevent silver ions from contacting sample.

- Measure 0 to 14pH
- Temperature range: 0° to 60°C (0° to 140°F)
- Choice of connectors with 1m (3') cable

13-641-212

STORAGE:
Always store in pH storage solution, Orion 910001. Either store in a beaker of storage solution or reassemble in the storage bottle the electrode was provided with.

Model	Applications	Connector	Mfr. No.	Cat. No.	Each
Epoxy Body pH/ATC Model					
pH/ATC General Purpose	General Purpose	Waterproof BNC and 8 pin Mini-DIN	9107APMD	**13-644-966**	290.76
Glass Body pH Models					
General purpose	General Purpose	Waterproof BNC	9102AP	**13-641-212**	352.99
Semimicro	Small sample sizes, test tubes	Waterproof BNC	9103APWP	**13-645-150**	405.95
Rugged Bulb	Rugged use	Waterproof BNC	9104APWP	**13-645-151**	367.83
Epoxy Body Models					
Semimicro	Small sample sizes, test tubes, aqueous solutions only	Waterproof BNC	9115APWP	**13-645-152**	411.80
Flat Surface	Moist surfaces, solids, semisolids, small sample sizes	Waterproof BNC	9135APWP	**13-645-153**	400.94
General Purpose	General Purpose, rugged use, lab or field use	Waterproof BNC	9156APWP	**13-645-154**	374.52

Thermo Scientific™ Orion™ 8102BNUWP ROSS Ultra™ pH Electrode

General purpose, top performance glass body combination electrode with waterproof BNC connector for precise pH determinations

Offers superior measurement stability, faster response, greater accuracy, longer life, least long-term drift and more reproducible results.

- Featured with WP — waterproof and secure electrode connectors
- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: ROSS
- Junction: ceramic
- Dimensions: 120 × 12mm
- pH precision: 0.01
- Fill solution: 810007
- Material: glass body
- Works in extreme case of samples varying from one another by 50°C or more
- Drift is less than 0.002 pH per day, restandardization is minimized
- Precise pH determinations
- Double junction reference design
- Tris compatible

13-642-237

- Waterproof BNC connector
- 1m cable

INCLUDES:
60mL bottle of Orion ROSS electrode fill solution, 810007

REQUIRES:

- pH buffers for calibration
- Beakers, plastic or glass
- Magnetic stirrer or Orion stirrer probe
- Distilled or deionized water

Cat. No.	Each
13-642-237	487.70

Thermo Scientific™ Orion™ 8103BNUWP ROSS Ultra™ pH Electrode

General purpose, top performance glass body, semi-micro tipped combination electrode for precise pH determinations in micro volume sample

13-642-238

Offers superior measurement stability, faster response, greater accuracy, longer life, least long-term drift and more reproducible results.

- Featured with WP — waterproof BNC connectors
- Fits test tubes
- Measures samples as small as 0.2mL
- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: ROSS
- Dimensions: 165 × 6mm (6mm section is 95mm long)
- Fill solution: 3M KCl, Orion Cat. No. 810007
- Ceramic junction
- pH precision: 0.01

INCLUDES:
60ml bottle of Orion ROSS electrode fill solution 810007

REQUIRES:

- pH buffers for calibration
- Beakers, plastic or glass
- Magnetic stirrer or Orion stirrer probe
- Distilled or deionized water

Cat. No.	Each
13-642-238	615.48

Thermo Scientific™ Orion™ 8104BNUWP ROSS Ultra™ pH Electrode

General purpose, top performance glass body, rugged bulb combination electrode for precise pH determinations

13-642-239

Designed for samples which are difficult to measure by conventional electrodes. Offers superior measurement stability, faster response, greater accuracy, longer life, least long-term drift and more reproducible results. pH response is independent of temperature changes.

- Featured with WP — waterproof BNC connectors
- Toughened bulb
- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: ROSS
- Dimensions: 120 × 12mm
- Fill solution: 3M KCl
- Ceramic junction
- pH precision: 0.01

INCLUDES:
One meter cable

REQUIRES:

- pH buffers (pH 7 ±1 to 3 pH units)
- Beakers, plastic or glass
- Magnetic stirrer or Orion stirrer probe
- Distilled or deionized water

Cat. No.	Each
13-642-239	527.43

Thermo Scientific™ Orion™ 8115BNUWP ROSS Ultra™ Electrode

Top performance epoxy body, semi-micro tip combination electrode for precise pH determinations in low volume aqueous samples

13-642-240

Designed for samples that are difficult to measure by conventional electrodes. Offers superior measurement stability, faster response, greater accuracy, longer life, least long-term drift and more reproducible results. pH response is independent of temperature changes.

- Featured with WP — waterproof BNC connectors
- Fits test tubes
- Measures samples as small as 0.2mL
- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: ROSS
- Dimensions: 165 × 6mm (6mm section is 95mm long)
- Fill solution: 3M KCl
- Glass fiber junction
- pH precision: 0.01

INCLUDES:
One meter cable

REQUIRES:

- pH buffers (pH 7 ±1 to 3 pH units)
- Beakers, plastic or glass
- Magnetic stirrer or Orion stirrer probe
- Distilled or deionized water

Cat. No.	Each
13-642-240	536.94

Thermo Scientific™ Orion™ 8156BNUWP ROSS Ultra™ pH Electrode

Top performance, epoxy body combination electrode for precise pH determinations

13-642-241

Offers superior measurement stability, faster response, greater accuracy, longer life, least long-term drift and more reproducible results when used with unique reference system. pH response is independent of temperature changes.

- Featured with WP — waterproof BNC connectors
- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: ROSS
- Dimensions: 120 × 12mm
- Glass fiber junction
- pH precision: 0.01
- Fill solution: 3M KCl

INCLUDES:
One meter cable

REQUIRES:

- pH buffers (pH 7 ±1 to 3 pH units)
- Beakers, plastic or glass
- Magnetic stirrer or Orion stirrer probe
- Distilled or deionized water

Cat. No.	Each
13-642-241	483.44

Thermo Scientific™ Orion™ Economy Series pH Combination Electrodes

Epoxy body electrodes have a permanently gelled Ag/AgCl electrolyte and a wick junction

- 9106BNWP has 0 to 14 pH range; 911600 has 0 to 12 pH range
- 0° to 80°C (32° to 176°F) temperature range
- General-Purpose Model: 4.31" long (11cm) × 0.43" diameter (12mm) body, 0.62" diameter (16mm) cap
- Semimicro Model: 5.93" long (15cm) × 0.25" diameter (6mm) body, 0.18" diameter (10mm) cap

91-06 Model

- Connector: Waterproof BNC

Semimicro Model

- Connector: BNC

Thermo Scientific Orion Economy Series pH Combination Electrodes

Model	Mfr. No.	Cat. No.	Each
Semimicro	911600	**13-641-865A**	191.50
General Purpose/Standard Size/Standard Bulb	9106BNWP	**13-642-249**	134.35

Thermo Scientific™ Orion™ 9165BNWP Combination Sure-Flow™ pH Electrode

13642253

Designed for samples that are difficult to measure by conventional electrodes such as soils, sludges, colloids, viscous materials and organics

- Material: Epoxy body
- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: Ag/AgClpH
- Precision: 0.02
- Junction: Sure-Flow
- Cap diameter: 16mm
- Electrode length: 120mm (excluding cap)
- Electrode diameter: 12mm
- The junction is cleaned easily between measurements; pressing down on the cap allows filling solution to flow through the junction, carrying away any contamination that may interfere with measurement

Description	Mfr. No.	Cat. No.	Each
Epoxy body, Sure-Flow Junction; 0-100°C range	9165BNWP	**13642253**	295.60

Thermo Scientific™ Orion™ Model 91-72 Sure-Flow pH Electrode

13-642-254

Description	Connector	Mfr. No.	Cat. No.	Each
Sure-Flow pH Electrode	Waterproof BNC	9172BNWP	**13-642-254**	299.95

Thermo Scientific™ Orion™ 8163BNWP ROSS™ Combination Spear Tip pH Electrode

Provides stable readings to 0.01 pH in less than 30 seconds

13-644-940

- pH range: 0 to 14
- Temperature range: 0° to 100°C
- Internal reference: ROSS
- Junction: ceramic
- Dimensions: 110mm
- pH precision: 0.01
- Fill solution: 3M KCl
- Tip: Spear; Length: 4.5 × 20mm
- Material: glass body
- Sample sizes to 100µL
- For pH measurement in semisolid food material such as cheese, meat, fruit, bread and other similar samples
- Works in extreme case of samples varying from one another by 50°C or more
- Drift is less than 0.002 pH per day, restandardization is minimized

INCLUDES:
60mL bottle of ROSS electrode fill solution, 810007

Connector[s]	Mfr. No.	Cat. No.	Each
BNC Waterproof Connector	8163BNWP	**13-644-940**	610.09

Thermo Scientific™ Orion™ Redox/ ORP/Temp Electrodes

Platinum redox sensor, a silver/silver chloride internal reference system and a built-in thermistor for ORP and temperature measurement

13642255

- Available in Epoxy triode low maintenance and Epoxy refillable triode construction
- Built-in thermistor for Automatic Temperature Compensation (ATC)
- Not designed for amperometric or constant current titrations, such as Karl Fischer analysis

Description	Mfr. No.	Cat. No.	Each
Epoxy Triode Low Maintenance	9179BNMD	**13642255**	383.25
Epoxy Refillable Triode	9180BN	**136401**	477.57
Epoxy Refillable Triode enance	9180BNMD	**13642256**	498.40
Epoxy Triode Low Maintenance	9179BN	**13640**	359.62

Thermo Scientific™ Orion™ Dissolved Oxygen/BOD Probe

Makes any pH meter a dissolved oxygen meter

13-299-81

- Polarographic O_2 sensor plus solid-state circuitry in probe top; converts current to voltage for direct DO readout
- Plug probe into benchtop or portable pH meter, read DO over 0 to 14ppm range
- Accuracy, ±0.05ppm/2% of reading, whichever is greater, at 15° to 35°C (59° to 95°F) (sample temperature within 10°C of calibration temperature)
- Dual thermocompensator corrects for membrane permeability and O_2 solubility
- Ideal for BOD testing: overflow funnel supplied fits 300mL BOD bottle; built-in magnetic stir bar
- Responds to 96% of change in <30 sec.; O_2 consumption 0.1µg/hr.
- Screw-on membrane/electrolyte module; no membrane replacement — simply replace module after ~3 months of use

ORDERING INFORMATION:
Weight, 8 oz. (225g). Dimensions: 1.87" O.D. (48mm) at top, 0.5" O.D. (13mm) at sensor section and 9.62"L (240mm).

Replacements:
Membrane/Electrolyte Module: 13-299-81
Batteries, Silver Oxide, Type 10L14 (pack of two): 13-299-83
Overflow Funnel with Stir Bar: 13-299-82

INCLUDES: Two silver oxide 10L14 batteries, two membrane/electrolyte modules, overflow funnel, built-in stir bar, 29.5" long (75cm) cable, U.S. standard connector

Description	Mfr. No.	Cat. No.	Each
Membrane/Electrolyte Module	970801	**13-299-81**	82.99
Battery, Silver Oxide, Type 10L14 (pack of two)	970803	**13-299-83**	62.88
Oxygen/BOD BNC Connector	970899WP	**13-642-601**	1321.11
Overflow Funnel with Stir Bar	970802	**13-299-82**	166.97

Thermo Scientific™ Orion™ Standard Epoxy DO Probe for Lab or Field

13-642-230

- Rugged epoxy body
- Cable length: 3m
- Response time: 90% of final value in 10 sec; 95% of final value in 16 sec; 99% of final value in 60 sec
- Minimum sample flow: 20cm/sec
- Sample temperature: 0 to 50°C
- Temperature sensor: single thermally separated
- Drift: <1% per day
- Electrolyte lifetime: 180 days
- Storage temperature: -5 to 50°C
- Membrane caps: 081003
- Membrane solution: 080514
- Maintenance kit: 080113
- Standard Epoxy DO Probe 081010 is used with 805Aplus, 810Aplus, 850Aplus meters
- Standard Epoxy DO Probe 081010MD is used with Star Series meters

APPLICATIONS: For laboratory/field applications

Item Name	Mfr. No.	Cat. No.	Each
Thermo Scientific Orion Standard Epoxy DO Probe for the lab or field; w/Mini-DIN connector	081010MD	**13-642-230**	541.43

Thermo Scientific™ Orion™ AUTO-STIR™ BOD Probe

A new level of speed, convenience and accuracy is featured in this Orion BOD Probe. The built-in stirrer provides vigorous sample agitation, preventing oxygen stratification, and can easily be disassembled for cleaning. The probe stand, which is free standing, can be used to store your probe when not in use, and also functions as an air calibration beaker. One-touch control from the probe means fast and easy BOD analysis with the Orion 862A meter.

- Polarographic, self-stirring
- One-Touch™ control
- Low maintenance
- Orion AUTO-STIR BOD Probe Orion 086030MD is used with Orion Star and Star Plus Series Benchtop Models; cable length: 2m

Model	08602A
Applications	Laboratory
Probe Type	Polarographic Dissolved Oxygen
Sensor	Dual, thermally separated
Response Time	90% of final value in 10 sec.; 95% of final value in 15 sec.; 99% of final value in 60 sec.
Drift	Approx. 0.1%/day
Min. Sample Flow	10cm/sec/
Max. Overpressure	6 bar
Oxygen Consumption	0.008µg/hr. $(mg/L)^{-1}$ at 20°C
Sample Temperature	0° to 50°C
Storage Temperature	-5° to 50°C

Item Name	Cat. No.	Each
Thermo Scientific Orion AUTO-STIR BOD Probe	**13-642-234**	1598.47

Thermo Scientific™ Orion™ DO Probe for Lab or Field

Durable and accurate DO Probe

DO probes feature automatic temperature compensation and convenient screw-on membrane caps that reduce probe servicing time and eliminate assembly problems.

- With calibration sleeve
- Response time: 90% of final value in 10 sec; 95% of final value in 15 sec; 99% of final value in 60 sec
- Minimum sample flow: 10cm/sec
- Oxygen consumption: 0.008µg/h (mg/L)$^{-1}$1 at 20°C
- Maximum allowed overpressure: 6 BAR
- Sample temperature: 0 to 50°C
- Temperature sensor: dual thermally separated
- Drift: approx. 0.1% per day
- Electrolyte lifetime: 180 days
- Storage temperature : -5 to 50°C
- Membrane cap: 080515, solution: 080514
- Maintenance kit: 080513
- Orion DO Probe 083005MD is used with Orion Star™ Series meters. Cable length: 1.5m, 9 pin MiniDIN connector.
- Orion DO Probe 083010MD: Cable length: 3m, 9 pin MiniDIN connector.
- Orion DO Probe 083060MD; Cable length: 20m, 9 pin MiniDIN connector.

13-642-231

APPLICATIONS:
For laboratory/field

Item Name	Mfr. No.	Cat. No.	Each
Thermo Scientific Orion DO Probe for lab or field; With Epoxy body; 3m cable, Mini-DIN connector	083010MD	**13-642-232**	814.26
Thermo Scientific Orion DO Probe for lab or field; With Epoxy body; 20m cable, Mini-DIN connector	083060MD	**13-642-233**	948.84
Thermo Scientific Orion DO Probe for lab or field; With epoxy body; 1.5m cable	083005MD	**13-642-231**	767.82

Thermo Scientific™ Orion™ Soft Field Case

Protects meter and accessories under field conditions

Provides cushioned storage for meter, electrodes, solution and beakers, with interior dividers and exterior pockets

13-645-141

Package	Mfr. No.	Cat. No.	Each
Soft Field Case	1210005	**13-645-141**	152.11

Fisher Scientific™ Electrode Holder

Handles multiple pH and conductivity readings quickly with reduced electrode breakage

Accepts all brands of standard electrodes; extends 21" and pivots 360°; designed for smooth movement and effortless operation.

- Articulated at three points, the arm holder pivots in any direction (360°) while holder maintains electrode in vertical position
- Extends to 21" (53cm) from weighted 8" (20cm), die-cast metal base
- Accommodates standard glass, reference and combination electrodes as well as temperature and conductivity probes
- Spring counterbalance for smooth, fingertip control and stability

22-286-439

Description	Mfr. No.	Cat. No.	Price
Electrode Holder	3090	**22-286-439**	150.96

Fisher Scientific™ accumet™ Membrane Caps for Gas-Sensing Combination ISEs

For Ammonia Gas-Sensing Combination ISEs 13-620-508, 13-620-509; Carbon Dioxide Gas-Sensing Combination ISEs 13-620-510, 13-620-511

- Set of three replacement membrane caps
- With O-rings

13-620-512

Description	Mfr. No.	Cat. No.	Price
Gas Sensing ISE Membrane Caps	ZZ-35905-12	**13-620-512**	162.95

Thermo Scientific™ Orion™ pH Electrode Filling Solution

For use with pH electrodes and reference electrodes

- Only use ROSS filling solution (810007) with ROSS™ and ROSS Ultra™ pH electrodes to prevent damaging the ROSS electrodes
- When the single junction reference electrode (900100) or double junction reference electrode (900200) are used with Orion ion selective electrodes (ISE), refer to the recommended ISE filling solution listed in the ISE user guide

13-641-755

NOTES: The following part number has been changed due to a recent system upgrade.

- Old Part Number: 910008
- New Part Number: 910008-WA

Please use the new part number when placing an order or requesting a quote. The old and new part numbers are interchangeable on Certificate of Analysis and Material Data Safety Sheet (MSDS) files.

Description	Mfr. No.	Cat. No.	Pack of
Filling Solution for ROSS Ultra, ROSS, PerpHecT ROSS Electrodes	**810007**	**13-641-755**	5/116.55

Fisher Scientific™ accumet™ Electrode Reservoir — Mercury-Free

- Stores individual electrode in appropriate soaking solution, without dried-out soaking beakers or messy spills
- Keeps electrodes conditioned and ready for use
- Oval polyethylene bottle 1L × 2W × 3.75"H (2.5 × 5.1 × 9.5cm)
- Cap includes additional O-rings for use with any 6mm, 10mm or 12mm diameter electrode
- O-ring provides leakproof seal

INCLUDES:
Reducing seal for use with 0.25" diameter (6.4mm) electrodes

13-620-499

Description	Cat. No.	Each
Electrode Reservoir	**13-620-499**	38.00

Oakton™ Electrodes and Probes for pH 1100 and pH 2100 Meters

13-620-324

- pH electrode is double junction, refillable with glass body
- Temperature probe is 304 stainless steel and used for readings with Automatic Temperature Compensation
- With 3' (0.9m) long cable
- "All-in-One" pH electrode/temperature probe has an epoxy body and is gel filled and available in single or double junction
- With a BNC connector for pH, a phono plug for temperature and a 30" (0.8m) long cable

Description	Cat. No.	Each
Glass Body, Ag/AgCl reference, Double Junction	**13-620-324**	181.55
All-in-One Double-Junction Combination pH Electrode/Temperature Probe	**13-620-327**	173.90

Oakton™ Waterproof pHTestr™ Replacement Sensor

Replacement sensor for WP pHTestr 3, 3+, 10, 20 and 30

13-620-336

Description	Mfr. No.	Cat. No.	Each
phTestr Sensor	WD3562438	**13-620-336**	75.10

METTLER TOLEDO™ InLab™ Electrodes for SevenCompact™ pH/Ion Meter and SevenGo™ Duo Portable Meter

With Intelligent Sensor Management technology

01-915-108

InLab Science Pro-ISM

- Integrated NTC 30kilohm temperature probe
- Movable glass sleeve junction
- Double junction reference
- Special METTLER TOLEDO A41 glass membrane
- ARGENTHAL™ and silver ion trap
- Glass shaft (170mm L, 12mm dia.)
- Type of membrane glass: A41
- For SevenGo Duo™ SG23 and SevenGo Duo pro™ SG68 and SG78

InLab Expert Pro-ISM

- With solid polymeric electrolyte XEROLYT™
- Open junction
- High grade plastic shaft (PEEK), 120mm L, 12mm dia.
- ARGENTHAL reference and integrated NTC 30 kilohm temperature probe
- For SevenCompact and SevenExcellence™ meters
- Type of membrane glass: U

Description	Mfr. No.	Cat. No.	Each
Inlab Expert Pro-ISM	30014096	**01-915-108**	320.00
Inlab Science Pro-ISM	51344072	**01-917-145**	485.00

METTLER TOLEDO™ Probes for S30 and S70 Meters

01-928-132

Inlab™ conductivity probes 120L × 12mm dia. With Mini-DIN connections and 3' (1m) cables.

Description	Material	Range	Mfr. No.	Cat. No.	Each
InLab 710	Glass/Platinum	0.01 to 500mS/cm	51302256	**01-928-132**	323.00
InLab 720	Glass/Platinum	0.1 to 500µS/cm	51302255	**01-928-133**	320.00

METTLER TOLEDO™ InLab™ Routine Pro-ISM pH Electrode

EQITHAL technology guarantees shortest response times despite large changes in temperature

01-915-109

- With integrated NTC 30kΩ temperature sensor, MultiPin head and BNC Cable
- ARGENTHAL™ reference system ensures a clean junction for reliable measurements
- Ceramic junction
- Comes with MultiPin BNC/RCA (Cinch) cable (51344291)
- pH Range: 0 to 14
- Temperature range: 0 to 100°C
- Response time: <20 seconds
- Shaft material: glass
- Shaft diameter × length: 12 × 120mm
- Temperature probe: NTC 30 kilohm
- Reference electrolyte: 3mol/KCl

pH Range	Mfr. No.	Cat. No.	Each
0 to 14	30014095	**01-915-109**	355.00

METTLER TOLEDO™ Probes for S230 SevenCompact™ Conductivity Meter

The high quality of our InLab™ conductivity probes, combined with their easy handling, make them ideal for any kind of application

01-915-110

- Each conductivity sensor is supplied with a certificate, specifying the nominal or actual cell constant

Features and Benefits

- Stainless steel or epoxy shaft
- Temperature probe
- Wide measuring range
- Measurement in ultra pure water with the METTLER TOLEDO glass flow through cell

Automatic temperature compensation in the field of conductivity measurement

- The conductance of a solution rises with increasing temperature. This effect must be compensated for in any conductivity determination. By using conductivity cells with integrated temperature sensors this compensation is easily accomplished. Most conductivity measurements are referenced either to 20° or 25°C. In conjunction with METTLER TOLEDO meters this compensation can be made automatically. All the conductivity cells in the InLab range have been designed for use in laboratory applications.

Description	Mfr. No.	Cat. No.	Each
731-ISM, Cable length: 1.2m	30014092	**01-915-110**	400.00
731-ISM, Cable length: 2m	30014093	**01-915-111**	415.00
741-ISM, Cable length: 1.2m	30014094	**01-915-112**	570.00

METTLER TOLEDO™ Expert Series pH and pH/ATC Combination Electrodes

Ideal for critical samples such as suspensions or samples of unknown composition

- Open junction puts the reference electrode in direct contact with the measured medium, eliminating the possibility of contamination or blockage
- PEEK™ shaft is chemically and mechanically robust so it performs reliably under the toughest conditions

01911460

Description	Connector[s]	Cable Length	Probe Type	Mfr. No.	Cat. No.	Each
S7 screw head	----	----	----	51343100	**01911460**	246.00
----	BNC/RCA connectors	1.2m	NTC 30kilohm ATC	51343101	**01911461**	269.00
----	DIN/4mm Banana connectors	2m	Pt1000 ATC	51343103	**01911462**	325.00
MultiPin head	----	----	NTC 30kilohm ATC	51343104	**01911463**	290.00
MultiPin head	----	----	Pt1000 ATC	51343105	**01911464**	289.00
----	BNC/RCA connectors	2m	NTC 30kilohm ATC	51343102	**01911465**	323.00

Before You Buy **Electrochemistry Meters**

a xylem brand

YSI Benchtop Features to Look For

- One-, Two-, or Three-channel input for pH, ORP, DO/BOD, conductivity, or ISEs
- Data set storage in both manual mode and automatic logging mode
- Large, easy to read backlit graphic display
- Good Laboratory Practice (GLP) traceability
- USB connectivity to manage data
- 3 year instrument warranty, 2 year DO/BOD sensor warranty, 1 year pH/ORP/Conductivity sensor warranty
- Intelligent Digital Sensors (IDS) store serial number and calibration data, as well as digitally process the measurement signal. IDS sensors can be moved from instrument to instrument and maintain their calibration data and transmit that information to the new instrument.

YSI Handheld Features to Look For

- Rugged connectors (mil-spec) with detachable cables
- User replaceable probes for field parameters or lab ISE and BOD probes
- 3 year instrument warranty, 2 year cable warranty
- Data management capabilities (within the instrument and with free Data Manager desktop software)
- Backlit display and keypad (or glow in the dark keypad)
- Good Laboratory Practice (GLP) functionality
- Choice of DO probes: Polarographic, galvanic and optical

Consider Your Application

Choose an instrument that is flexible enough to work for your applications now, and in the future – in the lab, field or both. Interchangeable, user-replaceable sensors/cables, choice of parameters, and the ability to measure more than one parameter at once allows for ultimate versatility.

Lab instruments should have a small desktop footprint, be powered by USB or AC power, and should contain a GLP (Good Laboratory Practice) file for calibration and sensor performance information. Ensure your instrument provides you with the data set memory your application requires or the ability to connect to a PC. An easy to read, color backlit display may also prove important in a lab setting.

If you will be using your instrument for field sampling, the instrument should be reliable with a rugged housing, mil-spec connectors, and high-quality cables. Also consider backlit displays and keypads and make sure the graphic display is visible with polarized glasses. On-screen help will also improve instrument operation.

Consider Data Management

Selecting an instrument with memory to log data is increasingly important for accurate data management. Make sure you select an instrument that allows you to name the folders and site lists to suit your sampling events and allows you to download the data to a PC effortlessly.

If a large memory is not necessary it is still worth while to select an instrument with a smaller internal memory capability to help verify readings during your sampling events and ensure accurate data.

	MULTILAB	PRO PLUS	PROODO	PRO2030	PRO20	PRO30	PRO1020	PRO1030
TEMPERATURE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DO	Optical	Polarographic/ Galvanic	Optical	Polarographic/ Galvanic	Polarographic/ Galvanic	No	Polarographic/ Galvanic	No
pH/ORP	Yes	Yes	No	No	No	No	Yes	Yes
ISEs	Yes	Ammonium, nitrate, chloride	No	No	No	No	No	No
CONDUCTIVITY/ SALINITY	Yes	Yes	No (salinity input)	Yes	No (salinity input)	Yes	No	Yes
BOD	Optical	Polarographic	Optical	No	Polarographic	No	No	No

Standards and Solutions

Fisher Scientific™ accumet™ Filling Solution, Ammonia ISE

0.1M NH_4Cl

Description	Mfr. No.	Cat. No.	Price
Filling Solution, Ammonia ISE	ACCU0800-500A	**ACCU-080-0500**	61.15

Fisher Scientific™ accumet™ Ammonia Calibration Standard

1000ppm as NH_3

Description	Mfr. No.	Cat. No.	Price
Ammonia Calibration Standard	ACCU0801-500A	**ACCU-080-1500**	60.96

Fisher Scientific™ accumet™ Ammonia pH/Ionic Strength Adjuster

10M NaOH

Description	Mfr. No.	Cat. No.	Price
Ammonia pH/Ionic Strength Adjuster	ACCU0802-500A	**ACCU-080-2500**	70.23

Fisherbrand® Traceable™ Conductivity Calibration Standards Certified Reference Material (CRM)

Highly accurate; traceable to NIST™ standards

- New Fisher Scientific Traceable Conductivity Standards, Certified Reference Material (CRM)

Highest Accuracy Available

- Traceable to NIST (National Institute of Standards and Technology)
- Accuracy: certificate stated uncertainty or ±0.25 microsiemen or ±0.25%
- 100% compatible with all conductivity meters A2LA accreditation ISO 34 and ISO 17025 plus ISO 9001
- Includes an individual temperature chart and step-by-step calibration instructions
- Units labeled (micromhos/microsiemens, ohms, parts per million/TDS)
- Sixteen ounces for frequent calibration needs

ORDERING INFORMATION: In 16 oz. bottle (473mL).

INCLUDES: Each bottle is supplied with step-by-step calibration instructions, individual temperature compensation chart, traceability information and Traceable Certificate.

COMPLIANCE: This certified reference material meets test requirements for federal, state and local agencies, CAP, CLSI, ACS, and CLIA. Traceable Certified Reference Material complies with and is essential for use in these official methods: AOAC 973.40, EPA 120.1, Standard Method 2510 (APHA AWWA WEF), ISO™ 7888, DIN 38404, ASTM™ D1125, USGS I-1780, USP 24 NF19, USP 645, OIML R56, IUPAC, and for A2LA/NVLAP™ accreditations/ISO 9000 certifications. Material may be used to calibrate all conductivity meters and to determine all conductivity cell constants.

Fisherbrand Traceable Conductivity Calibration Standards

CERTIFICATIONS: To assure accuracy, an individually serial-numbered Traceable Certificate is supplied with each bottle, to indicate traceability to standards provided by NIST (National Institute of Standards and Technology) and/or a National Standards Laboratory. Double A2LA (The American Association for Laboratory Accreditation) accredited certification provides the highest achievable level of quality assurance, documentation, and accuracy. Certified Reference Materials are produced by an A2LA accredited ISO Guide 34 certified reference material producer and by an A2LA accredited ISO 17025 calibration laboratory. Additional accreditations include ISO 31 (certificate content), and ISO 35 (statistical analysis), plus ISO 9001 DNV (certified quality manufacturer).

Conductivity	Calibration Resistance	Dissolved Solids	Mfr. No.	Cat. No.	Each
NIST Solutions: Batch Tested, with Traceable Certificate					
1µmho	1.0megohm	0.66ppm	4274	**15-077-945**	82.10
5µmho	0.2megohm	3.3ppm	4270	**06-664-24**	80.80
10µmho	0.1megohm	6.6ppm	4065	**09-328-1**	41.95
100µmho	0.01megohm	66ppm	4066	**09-328-2**	41.45
1000µmho	0.001megohm	666ppm	4067	**09-328-3**	41.45
1413µmho	0.00071megohm	933ppm	4173	**09-328-11**	41.95
10,000µmho	0.0001megohm	6666ppm	4068	**09-328-4**	41.95
100,000Glc mumhos	0.00001megohm	66,666ppm	4069	**09-328-5**	42.05
NIST/A2LA Solutions: Each Bottle Tested, with Traceable Certificate					
1µmho	1.0megohm	0.66ppm	4574	**15-077-946**	133.60
5µmho	0.5megohm	3.3ppm	4570	**15-077-947**	133.80
10µmho	0.1megohm	6.6ppm	4565	**15-077-948**	100.00
100µmho	0.01megohm	66ppm	4566	**15-077-949**	100.00
1000µmho	0.001megohm	666ppm	4567	**15-077-950**	100.00
1413µmho	0.00071megohm	933ppm	4573	**15-077-951**	100.00
10,000µmho	0.0001megohm	6666ppm	4568	**15-077-952**	100.00
100,000Glc mumhos	0.00001megohm	66,666ppm	4569	**15-077-953**	100.00

Fisherbrand® Traceable™ One-Shot™ Conductivity Calibration Standards Certified Reference Material Producer (CRM)

Ideal for lab or field applications

Single-use conductivity standards calibrate all conductivity meters and probes for maximum accuracy. Eliminate concern about external container contamination. Calibration is made in the standard vial.

- Calibration within container — zero contamination
- Traceable to NIST™ (National Institute of Standards and Technology)
- Accuracy: certificate stated uncertainty or ±0.25 microsiemen or ±0.25%
- 100% compatible with all conductivity meters
- A2LA™ accreditations ISO™ 34 and ISO 17025 plus ISO 9001
- Includes an individual temperature chart and step-by-step calibration instructions
- Units labeled (micromhos/microsiemens, ohms, parts per million/TDS)
- Single use eliminates external contamination concerns
- Each standard contains 100mL
- Assortment (09-328-20) contains one each of 09-328-6, -7, -8, -9, -10, and -12

ORDERING INFORMATION: Each bottle contains 100mL.

INCLUDES: Each container is supplied with step-by-step calibration instructions, individual temperature compensation chart, traceability information and NIST Traceable Certificate.

COMPLIANCE: This certified reference material meets test requirements for federal, state and local agencies, CAP, CLSI, ACS, and CLIA. Traceable Certified Reference Material complies with and is essential for use in these official methods: AOAC 973.40, EPA 120.1, Standard Method 2510 (APHA AWWA WEF), ISO 7888, DIN 38404, ASTM™ D1125, USGS I-1780, USP 24 NF19, USP 645, OIML R56, IUPAC, and for A2LA/NVLAP™ accreditations /ISO 9000 certifications. Material may be used to calibrate all conductivity meters and to determine all conductivity cell constants.

Fisherbrand Traceable One-Shot Conductivity Calibration Standards CRM Producer

CERTIFICATIONS: To assure accuracy, an individually serial-numbered Traceable Certificate is supplied with each One-Shot 6-pack, to indicate traceability to standards provided by NIST (National Institute of Standards and Technology) and/or a National Standards Laboratory. Double A2LA (The American Association for Laboratory Accreditation) accredited certification provides the highest achievable level of quality assurance, documentation, and accuracy. Certified Reference Materials are produced by an A2LA accredited ISO Guide 34 certified reference material producer and by an A2LA accredited ISO 17025 calibration laboratory. Additional accreditations include ISO 31 (certificate content), and ISO 35 (statistical analysis), plus ISO 9001 DNV (certified quality manufacturer).

Conductivity	Calibration Resistance	Dissolved Solids	Cat. No.	Pack of 6
5µmho	0.2megohm	3.3ppm	**06-664-25**	115.00
10µmho	0.1megohm	6.6ppm	**09-328-6**	48.95
100µmho	0.01megohm	66ppm	**09-328-7**	48.95
1000µmho	0.001megohm	666ppm	**09-328-8**	49.05
1413µmho	0.00071megohm	933ppm	**09-328-12**	49.05
10,000µmho	0.0001megohm	6666ppm	**09-328-9**	49.05
100,000µmho	0.00001megohm	66,666ppm	**09-328-10**	49.05
Conductivity Calibration Standard Assortment			**09-328-20**	67.13

Fisherbrand® Redi-Stor™ Conductivity Probe Storage Solution

Ideal for storing conductivity probes

- Preserves probe's cleanliness
- Eliminates growths found when probes are stored in water
- Keeps probes ready for immediate use with no conditioning

ORDERING INFORMATION:
16 oz. (473mL) bottle.

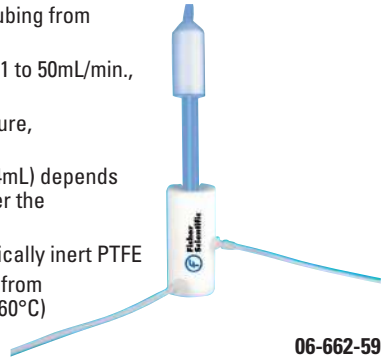
09-330-1

Description	Mfr. No.	Cat. No.	Pack of 6
Conductivity Probe Storage Solution	4170	**09-330-1**	46.82

Fisher Scientific™ pH/Conductivity Universal Flow-Thru Adapter

Accepts all 12mm dia. pH and conductivity probes to permit constant monitoring of flowing fluids

- Side connectors accept tubing from 0.12 to 0.18" I.D.
- Flowrates range from 0.001 to 50mL/min., depending on tube size
- Two O-rings ensure a secure, leakproof seal
- Cell volume (approx. 2 to 4mL) depends on how far into the adapter the probe is placed
- Manufactured from chemically inert PTFE
- Withstands temperatures from -100° to +500°F (-73° to +260°C)



06-662-59

ORDERING INFORMATION:
Measures 1" dia. × 2.25"L (2.5 × 5.6cm).

Description	Probe Material	Mfr. No.	Cat. No.	Each
pH/Conductivity Universal Flow-thru Adapter	PTFE	4167	**06-662-59**	113.34

Fisher Scientific™ accumet™ Conductivity Calibration Kit

Precision calibration resistor kit for accumet and other conductivity meters

- Supplied with a factory test certificate

13-637-674

INCLUDES:

- Six precision resistors (nominal values 10ohm, 100ohm, 1kohm, 10kohm, 100kohm, and 1Mohm)
- Connectors for accumet XL and AB conductivity meters
- General purpose connectors for other manufacturers' meters
- Foam padded case

Description	Mfr. No.	Cat. No.	Each
Conductivity Calibration Kit	3597674	**13-637-674**	355.15

Thermo Scientific™ Orion™ Pure Water pH Buffers and pHISA™ Adjuster

Accurate calibration for water measurements

- Provide accurate calibration when measuring samples of low ionic strength
- Useful for samples from boiler feed line and cooling towers, distilled and deionized water, well water or rain water
- Recommended for applications where pH electrodes typically exhibit drift, noise and instability
- Buffers supplied in 475mL (1 pt.) bottles with buffer/temperature tables for accurate calibrations

13-641-164, -165, -722

- pHISA Adjuster increases sample ionic strength without changing pH; come in 50mL bottles
- pH Test Kit provides fast, accurate pH results in high-purity waters

INCLUDES:
Pure Water pH Test Kit includes four 475mL bottles pH Buffer A, two 475mL bottles pH Buffer B, two 50mL bottles pHISA Adjuster, one 1mL syringe, instruction card, and application procedure No. 501, "pH Measurement in Low Ionic Strength Solutions"

CERTIFICATIONS:
Traceable to NIST™ Standard Reference Materials.

Description	Mfr. No.	Cat. No.	Price
pH Buffer A, pH 6.97	700702	**13-641-164**	Pk. of 4/265.22
pH Buffer B, pH 4.10	700402	**13-641-165**	Pk. of 4/270.55
pH Buffer C, pH 9.15	700902	**13-641-166**	Pk. of 4/270.55
pHISA Adjuster	700003	**13-641-722**	Pk. of 5/172.14
pH Test Kit	700001	**13-641-735**	Ea./274.45

Thermo Scientific™ Orion™ PerpHect™ Buffers

Ideal for accuracy and traceability

13-641-270 Series

- Certified, ready-to-use pH 4, 7 and 10 liquid buffers
- Single-use sealed pouches are easy to carry, assure accuracy, eliminate waste
- Accurate to ±0.01pH, certified NIST™-traceable
- Lot number and accuracy certification date on each pouch, for attachment to batch records
- Calibrate right in the pouch, so every calibration is as accurate as with a newly opened bottle of buffer
- Solutions are sealed against air, light and other contamination
- Ideal for field kits

Solution	Mfr. No.	Cat. No.	Pack of 10
pH 4 Buffer	910410	**13-641-270**	35.34
pH 10 Buffer	911025	**13-641-276**	58.16

Fisher Chemical™ Certified Color-Coded pH Buffers

Most widely used buffers in color-coded solutions with matching colored labels

- Provide instant recognition, tight tolerances: ±0.01pH for pH 4.00 and 7.00 buffers, ±0.02pH for pH 10.00 buffer, at 25°C (77°F)
- Standardized at 25°C against NIST™ standard reference material
- Color-coded label includes temperature correction chart

ORDERING INFORMATION:
Come in dispenser-top 500mL (≈1 pt.) or 4L (≈1 gal.) polyethylene bottles or 20L (≈5 gal.) PolyPac™ store-and-dispense containers

Lower left: SB101-500, SB107-500, SB115-500.
Upper left: SB105. Right: SB101-20, SB107-20, SB115-20.

pH	Color	Ingredients	Size	Cat. No.	Each	Case of
4.00	Red	Potassium biphthalate	500mL	**SB101-500**	39.47	6/177.12
			4L	**SB101-4**	135.50	4/426.50
			20L	**SB101-20**	289.00	----
7.00	Yellow	Potassium phosphate monobasic and sodium hydroxide	500mL	**SB107-500**	38.49	6/172.75
			4L	**SB107-4**	134.50	4/427.54
			20L	**SB107-20**	288.00	----
10.00	Blue	Potassium carbonate, potassium borate and potassium hydroxide	500mL	**SB115-500**	40.03	6/179.66
			4L	**SB115-4**	141.20	4/444.50
			20L	**SB115-20**	291.91	----

Fisher Chemical™ Certified Buffer Solutions

Accuracy, ±0.02pH or better

- Made from established formulas, standardized at 25°C against NIST™ standard reference material
- Stated values certified accurate to ±0.02pH or ±0.01pH at time buffer is bottled
- Label has temperature correction chart

ORDERING INFORMATION: 500mL and 1L sizes supplied in polyethylene bottles with screw caps and plastic seals. Case contains 6 × 500mL (6 × 1 pt.) or 6 × 1L (6 × $^1/_4$ gal.). Larger quantities are in 10 and 20L ($2^5/_8$ and $5^1/_4$ gal.) PolyPac™ store-and-dispense containers.

SB Series (500mL sizes)

pH	Ingredients	Size	Cat. No.	Each	Case of 6
1.00 (±0.02)	Potassium chloride and hydrochloric acid	500mL	**SB140-500**	61.50	284.50
2.00 (±0.02)	Potassium chloride and hydrochloric acid	500mL	**SB96-500**	42.95	199.70
		1L	**SB96-1**	74.90	347.50
		20L	**SB96-20**	343.33	----
3.00 (±0.01)	Potassium acid phthalate and hydrochloric acid	500mL	**SB97-500**	46.30	211.50
		20L	**SB97-20**	365.90	----
4.00 (±0.01)	Potassium acid phthalate	500mL	**SB98-500**	43.80	197.53
		1L	**SB98-1**	70.10	321.50
		10L	**SB98-10**	267.96	----
		20L	**SB98-20**	386.83	----
4.63 (±0.02)	Sodium acetate and acetic acid	1L	**SB100-1**	81.30	357.50
5.00 (±0.01)	Potassium acid phthalate and sodium hydroxide	500mL	**SB102-500**	43.95	202.50
		1L	**SB102-1**	65.80	296.50
6.00 (±0.01)	Monobasic potassium phosphate and sodium hydroxide	500mL	**SB104-500**	46.00	209.00
		1L	**SB104-1**	79.60	361.50
		20L	**SB104-20**	380.01	----
7.00 (±0.01)	Monobasic potassium phosphate and sodium hydroxide	500mL	**SB108-500**	44.05	198.20
		1L	**SB108-1**	67.50	303.50
		10L	**SB108-10**	304.97	----
7.40 (±0.01)	Monobasic potassium phosphate and sodium hydroxide	500mL	**SB110-500**	49.85	230.50
		1L	**SB110-1**	84.90	372.00
8.00 (±0.02)	Monobasic potassium phosphate and sodium hydroxide	500mL	**SB112-500**	43.45	196.30
		1L	**SB112-1**	67.00	296.00
		20L	**SB112-20**	352.92	----
9.00 (±0.02)	Boric acid, potassium chloride and sodium hydroxide	500mL	**SB114-500**	44.30	201.50
		1L	**SB114-1**	75.40	341.00
		20L	**SB114-20**	387.84	----
10.00 (±0.02)	Potassium carbonate, potassium borate and potassium hydroxide	500mL	**SB116-500**	45.45	203.00
		1L	**SB116-1**	71.60	323.00
		10L	**SB116-10**	236.16	----
		20L	**SB116-20**	357.09	----

Fisher Scientific™ Assorted pH Buffer Pouches

Economical, accurate, convenient

- ±0.01pH accuracy at 25°C (77°F)
- Pack of 20 pouches: five pouches each of pH 4, 7, and 10 buffers and rinse solution

CERTIFICATIONS:
All solutions are certified traceable to NIST™ standards.

13-300-147

Description	Mfr. No.	Cat. No.	Each
Assortment of 5 each: pH 4, pH 7, pH 10 Buffers and Rinse Solution	WD-35653-04	**13-300-147**	41.54

Hydrion™ Buffer Chemvelopes

Powdered ingredients make precision buffers: ±0.02pH at 25°C

13-640-303A

- In capsules or packets (Chemvelopes)
- Dissolve in distilled water: 100mL for capsules, 500mL for packets
- Directly traceable to NIST™ standards
- Standard capsules come in vials of 10, five vials per pack. Tri-Chek Capsule Set includes one vial of 10 capsules each for pH 4, 7, and 10 buffers
- Tri-Chek Chemvelope Set includes three pouches each for pH 4 and 10, four pouches for pH 7
- Tri-Chek sets also include dispensing dropper bottle of Color Key/ Buffer Preservative; add to buffer to inhibit mold and to color-code solution: red-orange for pH 4, green for pH 7, blue for pH 10

Description	pH	Mfr. No.	Cat. No.	Pack of
Standard Capsules	2.00	BUFCAP PH2	**13-640-303A**	5/51.10
	3.00	BUFCAP PH3	**13-640-303B**	5/51.10
	4.00	BUFCAP PH4	**13-640-303C**	5/51.10
	6.40	BUFCAPPH6.4	**13-640-303D**	5/51.10
	7.00	BUFCAP PH7	**13-640-303E**	5/51.10
	8.00	BUFCAP PH8	**13-640-303F**	5/51.10
	9.00	BUFCAP PH9	**13-640-303G**	5/51.10
	10.00	BUFCAP PH10	**13-640-303H**	5/51.10
	11.00	BUFCAP PH11	**13-640-303J**	5/51.10
Tri-Chek Chemvelope Set	4.00, 7.00, 10.00	CC472E	**15-420-2W**	1/29.10
Tri-Chek Capsule Set	4.00, 7.00, 10.00	CC471V	**15-420-2X**	1/29.10

Test Papers/Test Solutions

Fisherbrand® pH Paper Rolls

General purpose pH papers in efficient 15' rolls

13-640-500

- Convenient dispenser allows you to select the right amount of pH paper for each application
- Easy-to-use — dip paper in solution to be tested and match to color chart immediately
- Highly accurate and well suited for most applications
- Each SKU is packed in box of five clear plastic dispensers
- Cat. No. 13-640-507 is a pH paper testing set that includes shrink wrapped pack of seven dispensers (one of each SKU)

ORDERING INFORMATION:
15' roll provides about 100 tests.

STORAGE:
Store at room temperature. Keep out of direct sunlight.

pH Range	Cat. No.	Pack of
pH Testing Paper Strips		
0.0 to 14.0	**13-640-516**	1/16.67
5.5 to 8.0	**13-640-517**	1/15.95
6.5 to 13.0	**13-640-518**	1/16.67
5.0 to 9.0	**13-640-519**	1/16.67
0.0 to 6.0	**13-640-520**	1/16.67
pH Test Paper on 15' Roll		
0.0 to 3.0	**13-640-500**	5/24.60
3.0 to 5.5	**13-640-501**	5/24.60
6.0 to 8.0	**13-640-502**	5/24.60
8.0 to 9.5	**13-640-503**	5/24.60
10.0 to 12.0	**13-640-504**	5/24.60
12.5 to 14.0	**13-640-505**	5/24.60
1.0 to 12.0	**13-640-506**	5/24.60
0.0 to 14.0	**13-640-507**	7/30.00
pH Testing Paper Strips in Small Vials		
0.0 to 3.0	**13-640-511**	10/15.47
3.0 to 5.5	**13-640-509**	10/15.47
6.0 to 8.0	**13-640-510**	10/15.47
8.0 to 9.5	**13-640-512**	10/15.47
10.0 to 12.0	**13-640-513**	10/15.47
12.5 to 14.0	**13-640-514**	10/15.47
0.0 to 14.0	**13-640-508**	10/15.47

Fisherbrand® Paper pH Strips

An easy choice for classroom experiments or demonstrations

- Ideal for educational use
- Low-cost paper strips are easy to pass around the classroom
- Easy-to-use — simply dip strip in solution to be tested and match to color chart immediately

ORDERING INFORMATION:
Box of 10 vials, 100 low-cost paper strips per vial.

STORAGE:
Store at room tempature.
Keep out of direct sunlight.

13-640-508

pH Range	Color Match Points	Mfr. No.	Cat. No.	Pack of 10
pH Testing Paper Strips				
0.0 to 3.0	0.0-0.5-1.0-1.5-2.0-2.5-3.0	B50-SHTRG-000030-SST	**13-640-511**	15.47
3.0 to 5.5	3.0-3.5-4.0-4.5-5.0-5.5	B50-SHRTG-030055-SST	**13-640-509**	15.47
6.0 to 8.0	6.0-6.4-6.8-7.0-7.2-7.6-8.0	B50-SHTRG-060080-SST	**13-640-510**	15.47
8.0 to 9.5	8.0-8.5-9.0-9.5	B50-SHTRG-080095-SST	**13-640-512**	15.47
10.0 to 12.0	10.0-10.5-11.0-11.5-12.0	B50-SHTRG-100120-SST	**13-640-513**	15.47
12.5 to 14.0	12.5-13.0-13.5-14.0	B50-SHTRG-125140-SST	**13-640-514**	15.47
0.0 to 14.0	0.0-1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0-11.0-12.0-13.0-14.0	B50-WIDRG-000140-SST	**13-640-508**	15.47
PH Testing Paper Strips Set				
0.0 to 14.0	0.0-1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0-11.0-12.0-13.0-14.0	B50-SHTRG-000140-SET	**13-640-515**	15.47

Fisherbrand® Plastic pH Strips

Laboratory grade plastic pH strips in durable and easy to open flip-top vials

- Easy-to-use — simply dip strip in solution to be tested and match to color chart immediately
- Single color match with full 0.5" matching area for quick and accurate matches
- Flip-top vial stays closed when dropped, but is easy to open with one hand
- Sturdy vial keeps strips safe from the elements
- Full pH range (0.0-14.0) is available in a universal pH strip and finer measurements across the pH range
- Sold as 100 strips per vial; Pack of 6 vials

STORAGE:
Store at room tempature.
Keep out of direct sunlight.

13-640-516

pH Range	Color Match Points	Mfr. No.	Cat. No.	Pack of 6
0.0 to 14.0	0.0-1.0-2.0-3.0-4.0-5.0-6.-7.0-8.0-9.0-10.0-11.0-12.0-13.0-14.0	B60-WIDRG-000140-VPS	**13-640-516**	16.67
5.5 to 8.0	5.5-5.8-6.0-6.2-6.4-6.6-6.8-7.0-7.2-7.4-7.6-8.0	B60-SHTRG-055080-VPS	**13-640-517**	15.95
6.5 to 13.0	6.5-7.0-7.5-8.0-8.5-9.0-9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0	B60-SHTRG-065130-VPS	**13-640-518**	16.67
5.0 to 9.0	5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0	B60-SHTRG-050090-VPS	**13-640-519**	16.67
0.0 to 6.0	0.0-0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0	B60-SHTRG-000060-VPS	**13-640-520**	16.67

EMD Millipore™ MColorpHast™ pH Test Strips and Indicator Papers

Measure pH onsite without instruments or extensive preparation

Fit into a pocket and provide easy, rapid results — suited to all media in environmental analysis and industrial in-process controls.

- Differentiated color gradations for a more precise evaluation
- Traditional indicator paper or MColorpHast nonbleeding universal strips available

Traditional strips

- High-quality papers impregnated with indicator or mixed-indicator solutions, cut to size and dried
- Supplied in a roll format that protects strips against moisture, light or ambient gases for longer storage life
- Plastic indicator strips provide differentiated color gradations for a more precise evaluation
- Special indicator dyes covalently bonded to reagent papers
- Indicator does not bleed, so strips will not contaminate the medium, even if left for long periods of time

Long shelf life

- Can be used for three to five years when stored at 10° to 25°C in a light-protected area
- Reseal quickly after each use

Consistently high quality

- Tests checked and calibrated using certified buffer solutions
- Buffer solutions are traceable to primary reference materials from NIST™ and PTB

M1095350007

ORDERING INFORMATION:

Packaging: indicator papers come in lengths of 4.8m in roll dispenser; MColorpHast special indicator pH strips come as strips packed in boxes of 100 tests each.

Type	pH Range	Graduations	Test Packaging	No. of Tests	Mfr. No.	Cat. No.	Each
Universal	0 to 14	0 / 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0 / 13.0 / 14.0	6 × 100	600	1.09535.0007	**M1095350007**	96.00
Universal	0 to 14	0 / 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0 / 13.0 / 14.0	100 per ea.	100	1.09535.0001	**M1095350001**	22.90
Acilit	0 to 6.0	0 / 0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0	6 × 100	600	1.09531.0007	**M1095310007**	96.00
Acilit	0 to 6.0	0 / 0.5 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0	100 per ea.	100	1.09531.0001	**M1095310001**	24.10
Acilit	0.5 to 5	0.5/1.0/1.5/2.0/2.5/3.0/3.5/4.0/4.5/5.0	3 × 4.8m rolls	----	1.09560.0003	**M1095600003**	1 Ea.
Acilit	9.5 to 13	9.5/10.0/10.5/11.0/11.5/12.0/12.5/13.0	3 × 4.8m rolls	----	1.09562.0003	**M1095620003**	1 Ea.
Neutralit	5.0 to 10.0	5.0 / 5.5 / 6.0 / 6.5 / 7.0 / 7.5 / 8.0 / 8.5 / 9.0 / 9.5 / 10.0	6 × 100	600	1.09533.0007	**M1095330007**	96.00
Neutralit	5.0 to 10.0	5.0 / 5.5 / 6.0 / 6.5 / 7.0 / 7.5 / 8.0 / 8.5 / 9.0 / 9.5 / 10.0	1 × 100	100	1.09533.0001	**M1095330001**	24.10
Alkalit	7.5 to 14.0	7.5 / 8.0 / 8.5 / 9.0 / 9.5 / 10.0 / 10.5 / 11.0 / 11.5 / 12.0 / 12.5 / 13.0 / 13.5 / 14.0	1 × 100	100	1.09532.0001	**M1095320001**	24.10
Standard	2.0 to 9.0	2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 5.5 / 6.0 / 6.5 / 7.0 / 7.5 / 8.0 / 8.5 / 9.0	100 per each	100	1.09584.0001	**M1095840001**	24.10
Special Indicator	0 to 2.5	0 / 0.5 / 1.0 / 1.3 / 1.6 / 1.9 / 2.2 / 2.5	1 × 100	100	1.09540.0001	**M1095400001**	24.10
	2.5 to 4.5	2.5 / 3.0 / 3.3 / 3.6 / 3.9 / 4.2 / 4.5	1 × 100	100	1.09541.0001	**M1095410001**	24.10
	4.0 to 7.0	4.0 / 4.4 / 4.7 / 5.0 / 5.3 / 5.5 / 5.8 / 6.1 / 6.5 / 7.0	6 × 100	600	1.09542.0007	**M1095420007**	96.00
	4.0 to 7.0	4.0 / 4.4 / 4.7 / 5.0 / 5.3 / 5.5 / 5.8 / 6.1 / 6.5 / 7.0	1 × 100	100	1.09542.0002	**M1095420001**	24.10
	6.5 to 10.0	6.5 / 6.8 / 7.1 / 7.4 / 7.7 / 7.9 / 8.1 / 8.3 / 8.5 / 8.7 / 9.0 / 9.5 / 10.0	6 × 100	600	1.09543.0007	**M1095430007**	96.00
	6.5 to 10.0	6.5 / 6.8 / 7.1 / 7.4 / 7.7 / 7.9 / 8.1 / 8.3 / 8.5 / 8.7 / 9.0 / 9.5 / 10.0	1 × 100	100	1.09543.0002	**M1095430001**	24.10
	11.0 to 13.0	11.0 / 11.5 / 11.8 / 12.1 / 12.3 / 12.5 / 12.8 / 13.0	1 × 100	100	1.09545.0001	**M1095450001**	24.10
Special Indicator	5.0-10.0	None	1 × 5000	5000	1.09454.0012	**M1094540012**	789.50

Fisherbrand® Acid/Alkali Test Papers

- Litmus Blue turns red in acid
- Litmus Red turns blue in base
- Litmus Neutral turns red in acid, blue in base
- Congo Red turns blue in acid — not for weak acid solutions

ORDERING INFORMATION:
100 strips per vial.

Strips	Cat. No.	Pack of 24 Vials
Litmus Blue	**14-844**	73.20
Litmus Red	**14-845**	73.20
Litmus Neutral	**14-850**	73.20
Congo Red	**14-861**	83.50

Fisherbrand® Special Test Papers

Lead acetate paper and potassium iodide/starch paper for testing presence of soluble sulfides and chlorine levels, respectively

- Lead acetate paper turns black in presence of hydrogen sulfide and other soluble sulfides
- Potassium iodide/starch paper turns blue to deep purple in the presence of low levels of chlorine, iodine, peroxide and ozone

ORDERING INFORMATION:
100 strips per vial.

Description	Cat. No.	Pack of 24 Vials
Lead Acetate	**14-862**	41.65
Potassium Iodide/Starch	**14-860**	42.20

Fisherbrand® Alkacid™ Wide-Range Test Ribbons

Get instant pH values with these handy pocket tester rolls

- Provide five distinct color changes in pH range 2 through 10; color changes: red (pH 2), orange (pH 4), yellow (pH 6), green (pH 8), blue (pH 10)
- Intermediate pH values can be estimated

Left to right: A979, A989, A988, A981

ORDERING INFORMATION:
In amber vials of 100 with color-comparison chart.

Roll Size	Cat. No.	Pack of 3	Case of 12 Pk.
15 × 0.25" (4.6m × 6.4mm)	**A979**	43.55	383.50

Fisherbrand® Alkacid™ Wide-Range Test Strips

- Change to red (pH 2), orange (pH 4), yellow (pH 6), green (pH 8), blue (pH 10)

A980

ORDERING INFORMATION:
In amber vials of 100 with color-comparison chart.

Cat. No.	Pack of 12 Vials	Case of 12 Pk.
A980	81.10	705.50

Fisherbrand® Alkacid™ Full-Range pH Kit

pH accuracy to ±0.25

Provides sharp color change for each 0.5 pH unit. Consists of A979 wide-range paper for determining approximate pH value and six specific short-range papers.

- Range 1 (pH 0.0 to 3.0)
- Range 2 (pH 3.5 to 5.5)
- Range 3 (pH 6.0 to 8.5)
- Range 4 (pH 9.0 to 11.0)
- Range 5 (pH 10.5 to 12.5)
- Range 6 (pH 12.0 to 14.0)

ORDERING INFORMATION:
Each paper comes in 15'L × 0.25"W (4.6m × 6.4mm) roll with its own plastic dispenser. Appropriate color chart mounted inside. Seven rolls packed in hinged plastic box. Replacement short-range paper rolls available separately.

Description	Color	pH Range	Range No.	Cat. No.	Pack of	Case of 12 Pk.
pH Range: 0.0 to 3.0	Blue	0.0–3.0	1	**A981**	3/49.02	429.57
pH Range: 6.0 to 8.5	Yellow	6.0–8.5	3	**A983**	3/56.84	492.73
pH Range: 12.0 to 14.0	Blue	12.0–14.0	6	**A986**	3/38.52	334.65

EMD Millipore™ MColorpHast™ pH Indicator Strips, pH 2.0 to 9.0

Measure pH swiftly without using instruments

Special indicator for turbid solutions/suspensions

- Range: pH 2.0 to 9.0
- Graduations: 2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0

ORDERING INFORMATION:
Pack of 100 tests.

INCLUDES:
Color scale

Mfr. No.	Cat. No.	Each
1.09502.0001	**M1095020001**	25.00

EMD Millipore™ MColorpHast™ pH Indicator Litmus Papers

Measure pH swiftly without using instruments

Suited for all media in environmental analysis and industrial in-process controls.

- More precise evaluation due to differentiated color graduations
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free waste disposal
- Range: pH <7, red; pH >7, blue
- M1094860003: blue
- M1095180003: neutral
- M1094890003: red
- M1094860003 and M1094890003 are Reag. Ph. Eur grade

ORDERING INFORMATION:
Three rolls of 4.8m.

INCLUDES:
Color scale

Description	Mfr. No.	Cat. No.	Each
Litmus, Blue	1.09486.0003	**M1094860003**	42.60
Litmus, Red	1.09489.0003	**M1094890003**	42.60
Litmus, Neutral	1.09518.0003	**M1095180003**	49.30

EMD Millipore™ MColorpHast™ pH Indicator Phenolphthalein Papers

Measure pH swiftly without using instruments

Suited for all media in environmental analysis and industrial in-process controls.

- More precise evaluation due to differentiated color graduations
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free disposal
- Range: pH <8.5, colorless; pH >8.5, red

ORDERING INFORMATION:
Three rolls of 4.8m each.

INCLUDES:
Color scale

Mfr. No.	Cat. No.	Each
1.09521.0003	**M1095210003**	42.60

EMD Millipore™ Universal pH Indicator Papers, pH 1 to 10

Impregnated with high-quality color

Color Scale: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Description	Mfr. No.	Cat. No.	Each
Booklet: 3 × 100 strips	1.09525.0003	**M1095250003**	44.40
Rolls: 3 × 4.8m	1.09526.0003	**M1095260003**	43.40

EMD Millipore™ Replacement Rolls for MColorpHast™ Universal pH Indicator Papers, pH 1 to 10

Replacement rolls for M1095260003

- Protected from outside influences, rolls are well suited for long term storage
- Impregnated with high-quality universal indicator solution
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free waste disposal
- Range 1.0 to 10.0
- Graduations: 1.0-2.0-3.0-4.0-5.0-6.0-7.0-8.0-9.0-10.0

ORDERING INFORMATION:
Six rolls of 4.8m each.

INCLUDES:
Replacement rolls do not include color scales.

Mfr. No.	Cat. No.	Each
1.09527.0001	**M1095270001**	53.30

EMD Millipore™ MColorpHast™ pH Indicator Papers

Measure pH onsite without instruments or extensive preparation

Type	Measurement Ranges	Mfr. No.	Cat. No.	Each
Special Indicator	pH 3.8 to 5.4	1.09555.0003	**M1095550003**	43.40
Special Indicator	pH 3.8 to 5.4	1.09557.0003	**M1095570003**	43.40
Special Indicator	pH 3.8 to 5.4	1.09556.0003	**M1095560003**	43.40
Special Indicator	pH 8.2 to 10.0	1.09558.0003	**M1095580003**	43.40

EMD Millipore™ Replacement Rolls for MColorpHast™ Neutralit™ pH Indicator Papers, pH 5.5 to 9.0

- Protected from outside influences, rolls are well suited for long term storage
- Impregnated with high-quality universal indicator solution
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free waste disposal
- Range: 5.5 to 9.0 pH
- Graduations: 5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0

ORDERING INFORMATION: Six rolls of 4.8m each.

INCLUDES: Replacement rolls do not include color scales.

Mfr. No.	Cat. No.	Each
1.09569.0001	**M1095690001**	53.30

EMD Millipore™ MColorPhast™ pH-Box pH Indicator Papers with Acilit, Neutralit, Alkalit, pH 0.5 to 13

Three indicator paper types in a pack

Suited for all media in environmental analysis and industrial in-process controls.

- Rapid on-the-spot determination
- Acilit covers range 0.5 to 5.0 pH
- Neutralit covers range 5.5 to 9.0 pH
- Alkalit covers 9.0 to 13.0 pH
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free waste disposal
- Range: 0.5 to 13.0
- Graduations: 0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0-9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0

ORDERING INFORMATION: Three rolls of 4.8m each.

INCLUDES: Color scale

Mfr. No.	Cat. No.	Each
1.09565.0001	**M1095650001**	48.80

EMD Millipore™ Replacement Rolls for MColorpHast™ Acilit™ pH Indicator Papers, pH 0.5 to 5.0

- Protected from outside influences, rolls are well suited for long term storage
- Impregnated with high-quality universal indicator solution
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free waste disposal
- Range: 0.5 to 5.0 pH
- Graduations: 0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0

ORDERING INFORMATION: Six rolls of 4.8m each.

INCLUDES: Replacement rolls do not include color scales.

Mfr. No.	Cat. No.	Each
1.09568.0001	**M1095680001**	53.30

EMD Millipore™ Replacement Rolls for MColorpHast™ Alkalit™ pH Indicator Papers, pH 9.5 to 13.0

- Protected from outside influences, rolls are well suited for long term storage
- Impregnated with high-quality universal indicator solution
- Biologically degradable polyester foil and low reagent content in reaction zones support problem-free waste disposal
- Range: 9.5 to 13.0 pH
- Graduations: 9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0

ORDERING INFORMATION: Six rolls of 4.8m each.

INCLUDES: Replacement rolls do not include color scales.

Mfr. No.	Cat. No.	Each
1.09570.0001	**M1095700001**	53.30

EMD Millipore™ Universal pH Indicator Papers, pH 1 to 14

Since they protect against external influences, pH indicator papers supplied in rolls are well suited for long-term storage

- High-quality filter paper impregnated with indicator solutions
- M1102320001 are replacement rolls for M1109620003
- Color scale: graduated by 1 pH units

Description	Mfr. No.	Cat. No.	Each
6 Rolls	1.10232.0001	**M1102320001**	53.30
3 Rolls	1.10962.0003	**M1109620003**	43.40

EMD Millipore™ Reflectoquant™ pH Reflectometric Tests with Strips

For use with Reflectoquant systems

- Monitor pH value in aqueous solutions and beverages, e.g., wine, after dilution and food after sample pretreatment
- Store at 15° to 25°C

ORDERING INFORMATION:
50 strips per kit.

Measuring Range	Applications	Mfr. No.	Cat. No.	Each
pH 1.0 to 5.0	Monitors pH value in aqueous solutions and food samples	1.16894.0001	**M1168940001**	58.50
pH 7.0 to 10.0	Monitors pH value in cooling lubricants	1.16898.0001	**M1168980001**	58.50
pH 4.0 to 9.0	Monitors pH value in aqueous solutions and food samples	1.16996.0001	**M1169960001**	57.50

Micro Essential Lab Insta-Chek™ 0-13 Wide-Range pH Test Paper/ Dispenser

Direct reading pH paper with 14 colors for 14 pH values — the widest range available on a single paper

- Immediate response — colors are distinct and easily read for accurate, reproducible readings
- Single roll dispenser with one 50' × 0.5" roll

ORDERING INFORMATION:
Single-roll dispenser with one 50' long (15.2m) roll of 0 to 13pH paper and color chart; refills sold separately.

14-850-1

Description	pH Range	Mfr. No	Cat. No.	Each	Pack of 10
Jumbo Dispenser	0-13	HJ 613	**14-850-1**	16.24	139.20
Jumbo Refill, 50ft × 0.5 in	0-13	JR113	**22-288193**	86.90	86.90

Micro Essential Lab Double-Roll Dispensers with Hydrion™ pH Test Papers

- Reusable dispensers hold two rolls of standard-size Hydrion pH papers — 15'L × 0.21"W (4.6m × 0.55cm) — plus matching color charts
- Features cut-off lips on each side
- Wide-range papers provide a sharp color change for each full pH unit
- Short-range papers change for each 0.5pH unit

pH Range	pH [Papers]	Mfr. No.	Cat. No.	Each	Case of 10
Dispensers with Short-range Papers					
0.0–5.5	1 roll 0.0–3.0, 1 roll 3.0–5.5	0.0-5.5	**14-850-10A**	13.93	115.40
1.0–5.5	1 roll 1.0–2.5, 1 roll 3.0–5.5	1-5	**14-850-10C**	14.21	116.60
3.0–5.5	2 rolls 3.0–5.5	3055	**14-850-10E**	14.49	118.70
3.0–7.5	1 roll 3.0–5.5, 1 roll 4.5–7.5	3.0-7.5	**14-850-10G**	13.93	115.40
3.0–8.0	1 roll 3.0–5.5, 1 roll 6.0–8.0	3-8	**14-850-10J**	14.21	116.60
6.0–8.0	2 rolls 6.0–8.0	6080	**14-850-10K**	10.64	87.30
6.0–9.5	1 roll 6.0–8.0, 1 roll 8.0–9.5	6-9	**14-850-10M**	14.21	116.60
8.0–12.0	1 roll 8.0–9.5, 1 roll 10.0–12.0	8-12	**14-850-10P**	14.21	116.60
9.0–12.0	1 roll 9.0–10.0, 1 roll 10.0–12.0	9-12	**14-850-10R**	14.22	116.50
9.0–14.0	1 roll 9.0–12.0, 1 roll 12.5–14.0	9-14	**14-850-10T**	14.21	116.60
10.0–14.0	1 roll 10.0–12.0, 1 roll 12.5–14.0	10-14	**14-850-10V**	14.21	116.60
1.0–5.5	1 roll 1.0–2.5, 1 roll 3.0–5.5 papers	701	**14-853-158K**	18.76	18.76
6.0–9.5	1 roll 6.0–8.0, 1 roll 8.0–9.5 papers	705	**14-853-158M**	8.26	8.26
Dispensers with Wide-range Papers					
1–12	2 rolls 1–12 paper	140	**14-850-11B**	14.91	119.70
1–11	1 roll 2–4–6–8–10, 1 roll 1–3–5–7–9–11	150	**14-850-12A**	14.91	121.70
4–9	2 rolls 4–9 paper	151	**14-850-12B**	14.58	119.70
1–6	2 rolls 1–6 paper	152	**14-850-12C**	14.58	119.70
6–11	2 rolls 6–11 paper	153	**14-850-12D**	14.58	119.50
1–11	2 rolls 1–11 Vivid (excellent in low 1–6pH range)	159	**14-850-12J**	14.58	119.70
1–14	1 roll 1–12, 1 roll 12.5–14.0 papers	161	**14-850-13B**	14.58	120.80
0–11	2 rolls	DJ905	**14-853-153A**	27.50	----
1–12	2 rolls	DJ910	**14-853-153D**	27.50	----
1–12	Refill 2 rolls	401	**14-853-165B**	18.40	----

Micro Essential Lab pH Test Paper Refills for Hydrion™ Dispensers

- Standard-size rolls — 15'L × 0.21"W (4.6m × 5.3mm) — for double-roll and single-roll dispensers
- Come in pack of five rolls; each pack is a tightly sealed plastic container, complete with two color charts

pH Range	Mfr. No.	Cat. No.	Pack of 5	Case of 10 Pk.
Wide-range Paper Refills				
2 to 10	160A	**14-853A**	31.40	255.50
1 to 11	160B	**14-853B**	32.75	257.00
1 to 11	160/1-11VIV	**14-853-27**	32.60	246.50
1 to 12	160/1-12	**14-853-22**	33.30	261.00
3 to 9	160-3-9V	**14-853-23**	32.75	257.00
1 to 6	160/1-6	**14-853-20**	32.75	257.00
4 to 9	160/4-9	**14-853-24**	32.75	257.00
6 to 11	160/6-11	**14-853-25**	32.75	257.00
11 to 13	160D	**14-853D**	32.60	245.50
Short-range Paper Refills				
0.0 to 3.0	405	**14-853-50**	32.60	246.50
1.0 to 2.5	415	**14-853-60**	32.75	257.00
3.0 to 5.5	425	**14-853-70**	32.60	246.50
4.5 to 7.5	434	**14-853-79**	49.25	405.50
6.0 to 8.0	445	**14-853-90**	32.60	246.50
8.0 to 9.5	458	**14-853-103**	32.75	257.00
9.0 to 12.0	467	**14-853-112**	32.75	257.00
10.0 to 12.0	475	**14-853-120**	32.60	245.50
12.5 to 14.0	495	**14-853-140**	32.75	257.00

Fisher Chemical™ Universal pH Indicator System

For pH determinations between 4.0 and 10.0

- Rapid determinations of approximate pH of aqueous solutions
- Color chart features 12 translucent color standards permanently mounted next to openings of the same size pH value of each color standard is printed on included chart

SI60-500

ORDERING INFORMATION:
Packaged in amber glass bottles in two sizes. Replacement color chart available separately.

Volume	Mfr. No.	Cat. No.	Each	Case of 6
500mL	FLSI60-500	**SI60-500**	108.75	486.42
1L	FLSI60-1	**SI60-1**	159.72	652.67

Fisher Chemical™ pH Indicator Solutions

For use in a variety of pH test sets

Standardized to Clark and Lubs specifications.

- In 500mL (1 pt.) amber bottles

Indicator	pH Range	Mfr. No.	Cat. No.	Each	Case of 6
Thymol Blue, 0.04%	1.2–2.8, 8.0–9.2	FLSI14-500	**SI6-500**	44.51	196.59
Bromophenol Blue, 0.04%	3.0–4.6	FLSI16-500	**SI12-500**	132.54	577.86
Bromocresol Green, 0.04%	3.8–5.4	FLSI24-500	**SI14-500**	99.26	435.61
Methyl Red, 0.02%	4.2–6.2	FLSI6-500	**SI16-500**	45.41	203.01

Electrophoresis

Horizontal Systems

FisherBiotech™ Horizontal Electrophoresis Systems

Choose from four systems

Minigel System

- Ideal for quick screening
- Uses 7 × 10cm gel tray with two comb positions
- Runs up to 16 samples on one gel with combs supplied
- Can run up to 24 samples on a gel with accessory combs
- Provides easy, leak-free casting without tape, grease or seals

Midigel Systems

- Available with proprietary buffer recirculation method which prevents buffer's ionic depletion on long gel runs, keeps ionic gradients from distorting results when multiple sample series are run simultaneously and prevents pH changes that can cause problems in RNA gels
- Provide leak-free gel casting in 13 × 16cm gel tray with two comb positions
- Run up to 32 samples on one gel with combs supplied or up to 48 samples with accessory combs

Large Gel Systems

- Improve resolution in Northern and Southern blotting of large gels and multiple samples
- Available with same self-contained buffer recirculation method as Midigel System (FB-SBR-1316)
- Provide leak-free casting in a 20 × 25cm gel tray with six comb positions
- Run up to 36 samples per comb position with supplied combs
- Permit up to four sets of samples to be run equal distances on the same gel
- Allow shorter gels to be poured when used with accessory wall comb
- May also be used with programmable power inverter for field inversion electrophoresis
- Include a three-point leveling platform

FB-SB Series

Wide-Format System

- Permits leak-free casting in an 18 × 23cm gel tray
- Runs 25 to 250 samples simultaneously on one gel
- Produces clear, tight banding patterns with no "smiling"
- May be used with included microwell-format combs and a multichannel pipetter to load samples directly from a 96-well plate for faster loading and reduced error

System Components

System	Minigel	Midigel	Large Gel	Wide Format
Buffer Chamber	Yes	Yes	Yes	Yes
Safety Lid with attached power supply leads	Yes	Yes	Yes	Yes
UV-Transparent Gel Tray	Yes	Yes	Yes	Yes
Nonskid Rubber Feet	Yes	Yes	Yes	Yes
Three-Point Leveling System	No	No	Yes	No
Combs	Two 1.5mm thick combs (6- and 10-well)	Two 1.5mm thick combs (12- and 20-well)	Three 1.5mm combs (16-, 24-, 36-well)	Five microwell format combs

System	Gel Size	Buffer Volume	L × W × H	Type	Cat. No.	Each
Minigel	7 × 10cm	400mL	6.31 × 3.75 × 3.13" (16 × 9.5 × 8cm)	Standard	**FB-SB-710**	242.50
Midigel	13 × 16cm	800mL	9.63 × 7.06 × 3.13" (24.5 × 18 × 8cm)	Standard	**FB-SB-1316**	732.00
		1000mL	9.81 × 7.06 × 4.75" (25 × 18 × 12cm)	Recirculating	**FB-SBR-1316**	896.00
Large Gel	20 × 25cm	2.3L	14.75 × 11 × 3.94" (37.5 × 28 × 10cm)	Standard	**FB-SB-2025**	865.00
		2.0L	15 × 10.25 × 5.13" (38 × 26 × 13cm)	Recirculating	**FB-SBR-2025**	1167.00
Wide Format	18 × 23cm	1.2L	13 × 10.63 × 5.13" (33 × 27 × 13cm)	Standard	**FB-SB-2318**	914.50

Hoefer™ HE 33 Mini Submarine Electrophoresis Unit

Designed for very fast separations of DNA restriction fragments in agarose gels

- The clear molded base acts as a heat-sink — simply fill the base with coolant and seal
- Cooling the unit prior to a run allows higher voltages to be applied without generating band distortions or damaging the gel and unit
- No taping required for casting
- Electrical safety locks in lid

HE33

INCLUDES:
Buffer chamber, lid with cables, UV-transparent gel running tray, gel casting tray, 4 foam gaskets, bubble level. Complete system (03-500-130) also includes 1.5mm thick 8-well comb and comb back.

System	Gel Size	Mfr. No.	Cat. No.	Each
HE33 Mini Horizontal Unit Complete	7 × 10cm	HE33-8-1.5	**03-500-130**	539.00
HE33 Mini Horizontal Unit Basic	7 × 10cm	HE33B	**03500131**	510.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Hoefer™ HE 99X Max Submarine Electrophoresis Unit

Offers no-mess gel casting without tape or dams

- Unit accommodates a variety of gel lengths for maximum resolution of DNA fragments
- Agarose bridges are also accommodated, so gels can be run in nonsubmarine fashion
- Rugged design provides reliability and safety

INCLUDES: Buffer chamber with electrodes and leveling feet, safety lid with leads, bubble level. Also includes 15 × 20cm gel casting tray and UV-transparent running tray; 1.5mm thick, 15-well comb; adjustable comb back that permits control of the depth of the sample wells.

03-500-121

System	Gel Size	Mfr. No.	Cat. No.	Each
HE99X Max Horizontal Unit Complete	15 × 10-20cm	HE99X-15-1.5	**03-500-121**	905.00

Thermo Scientific™ Owl™ A1 and A2 Large Gel Systems

Large format systems are ideal for detailed RNA/DNA analysis and handle high throughput with consistent, reliable results

A1 System

- Gel can be cast in varying lengths to help conserve agarose when fewer samples need to be run
- Optional built-in buffer exchange ports allow for buffer recirculation on extended runs
- Programmable power inverter may be used for field reversal electrophoresis
- UVT gel tray has gasketed end gates for leakproof seal without tape
- Built-in leveling ensures flat, uniformly thick gels
- Comb slots allow two, three or four sample sets of equal lengths to be run on the same gel
- Microwell-format combs provide fast, error-free sample loading with a multichannel pipetter
- Samples may be loaded directly from a 96-well plate, 8 or 12 at a time

A2 System

- Built-in leveling ensures flat, uniformly thick gels
- Offers the greatest variety of comb options

INCLUDES: Buffer chamber with three-point leveling base, SuperSafe™ lid with attached power supply leads, UVT gel tray, gasketed end gates, three combs (A1: 12, 16 and 20-well; A2: 16, 24 and 36-well), 1.5mm thick

WARRANTY: Three years

CERTIFICATIONS: CE marked

09-528-100

09-528-101

Description	Type	Gel Size (L × W)	Footprint (L × W × H)	Running Buffer Volume	Sample Range	Mfr. No.	Cat. No.	Each
A1 System								
Complete system	Large	25 × 13cm	14.8 × 8.5 × 4.3" (37.5 × 21.5 × 11cm)	1.6L	8 to 150	A1	**09-528-100**	930.00
Complete system with buffer exchange ports	Large, w/buffer exchange ports	25 × 13cm	14.8 × 8.5 × 4.3" (37.5 × 21.5 × 11cm)	1.6L	8 to 150	A1-BP	**09-528-100A**	1025.00
A2 System								
Complete system	Large	25 × 20cm	14.8 × 12.8 × 4.1" (37.5 × 32.5 × 10.5cm)	2300mL	8 to 432	A2	**09-528-101**	898.05
Complete system with buffer exchange ports	Large, w/buffer exchange ports	25 × 20cm	14.8 × 12.8 × 4.1" (37.5 × 32.5 × 10.5cm)	2300mL	8 to 432	A2-BP	**09-528-102**	1111.71

Thermo Scientific™ Owl™ Wide-Gel Electrophoresis Systems

Ideal for screening PCR products, plasmid preps, restriction mapping and cloning

- Using special combs and a multichannel pipette, samples may be loaded directly from a 96-well plate, 8 or 12 at a time
- Incorporate EasyCast™ casting design with external caster — gel tray is fitted with gasket, allowing it to fit snugly into caster and providing a leakproof seal without tape
- Electrode placement allows gel to be run quickly without compromising resolution

09-528-165

D2 Electrophoresis System

- Allows 15 or 30 samples to be loaded per row with a microwell comb
- Four combs — two 30-well and two 40-well, 1.5mm thick
- Small footprint saves space on lab bench

D3-14 Electrophoresis System

- Screens 25 to 200 samples on a single agarose gel in less than 30 minutes, producing clear, tight banding patterns with no "smiling"
- Four combs — 50 microwell, 1.5mm thick
- Bubble level ensures casting of flat, uniformly thick gels

INCLUDES: Buffer chamber, SuperSafe™ lid with attached power supply leads, EasyCast gasketed UVT gel caster, four combs

WARRANTY: Three years

CERTIFICATIONS: CE marked

Horizontal System	Gel Size (L × W)	Footprint (L × W × H)	Running Buffer Volume	Sample Range	Mfr. No.	Cat. No.	Each
D2 System							
Wide	14.4 × 10.2cm	7.38 × 7.75 × 4" (19 × 20 × 10cm)	600mL	10 to 80	D2	**09-528-165**	686.69
D3-14 System							
Wide	14 × 23cm	11.8 × 10.6 × 4.3" (30 × 27 × 11cm)	800mL	25 to 200	D3-14	**09-528-128**	863.73

Thermo Scientific™ Owl™ EasyCast Minigel Electrophoresis Systems

Provide superior flexibility in a small footprint

- Feature leakproof casting that allows a gel to be cast and run in the same chamber with no tape or additional parts required
- UV-transmissible gel tray has a silk-screened ruler that fluoresces under UV light
- Two comb slots on gel tray double sample capacity by doubling number of sample wells
- Three systems for different size gels, each available with buffer exchange ports for use with external recirculation pump

09-528-110B

Model B1A (Gel Size 7 × 8cm)

- Provides flat, even banding patterns and consistent results
- Perfect for determining molecular weight ranges of PCR fragments or larger-sized DNA molecules
- Run from 5 to 24 samples in 15 minutes at 150V
- Combs: 6- and 10-well

Model B1 (Gel Size 9 × 11cm)

- Ideal for most teaching applications
- Durable and easy to use — perfect for students and high-volume researchers
- Run from 5 to 28 samples
- Combs: 10- and 14-well

Model B2 (Gel Size 12 × 14cm)

- Longer gel length and two comb slots allow running of 8 to 48 samples on one gel
- Combs: 12- and 20-well

INCLUDES: Main chamber; SuperSafe™ lid with attached power supply leads; Gasketed UVT gel tray; two heavy-duty, one-piece, double-sided combs (1.0/1.5mm thick)

WARRANTY: Three-year warranty

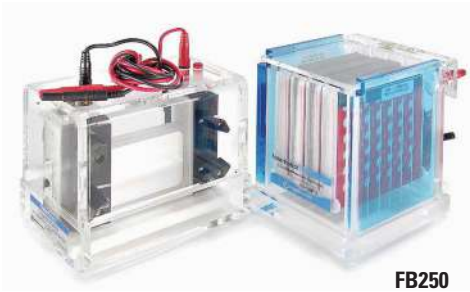
Gel Size	Buffer Volume	L × W × H	Type	Mfr. No.	Cat. No.	Each
7 × 8cm	400mL	6.31 × 4.13 × 3.75" (16 × 10.5 × 9.5cm)	Standard	B1A	**09-528-110**	479.61
7 × 8cm	400mL	6.31 × 4.13 × 3.75" (16 × 10.5 × 9.5cm)	w/Buffer exchange ports	B1A-BP	**OWB1ABP**	521.50
9 × 11cm	600mL	8.63 × 5.88 × 3.75" (22 × 15 × 9.5cm)	Standard	B1	**09-528-178**	522.37
9 × 11cm	600mL	8.63 × 5.88 × 3.75" (22 × 15 × 9.5cm)	w/Buffer exchange ports	B1-BP	**OWB1BP**	622.00
12 × 14cm	800mL	9.63 × 7.06 × 3.75" (24.5 × 18 × 9.5cm)	Standard	B2	**09-528-110B**	603.37
12 × 14cm	800mL	9.63 × 7.06 × 3.75" (24.5 × 18 × 9.5cm)	w/Buffer exchange ports	B2-BP	**09-528-118**	754.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Vertical Systems

FisherBiotech™ Electrophoresis Package

Combines the convenience of a one-step vertical electrophoresis system with a mini tank electroblotter for rapid, efficient transfers



FB250

Cast and run gels in one device, then perform uniform, reproducible protein transfers over a wide molecular range.

Vertical Electrophoresis System

- Gel assemblies don't have to be moved once set up
- Simple clamping mechanism makes it easy to load glass cassettes and most precast gels
- Central cooling core is composed of thermally conductive alumina plates and a unique fluid circulation path which provides even cooling over the entire gel for outstanding resolution and clear banding
- Ideal for mobility shift assays, second dimension protocols of 2-D electrophoresis, SDS and agarose gels
- Gel size: 10 × 8-10cm
- Dimensions: 1.94L × 8.25W × 7.06"H (5 × 21 × 18cm)
- Buffer volume: 300mL

Mini Tank Electroblotting System

- Simultaneously transfers up to four polyacrylamide protein minigels
- Integrated cooling base allows for temperature-controlled runs
- Buffer chamber features platinum wire electrode panels
- Optional stir bars may be added to bottom of buffer chamber for increased circulation and heat exchange
- Includes safety interlocking lid with attached power supply leads
- Transfer area: 9 × 9cm
- Dimensions: 7.06L × 5.13W × 6.5"H (18 × 13 × 16.5cm)
- Buffer volume: 1.4L

INCLUDES:
Four blank and four notched glass plates, two 10-well and 15-well 0.8mm-thick combs, 0.8mm-thick spacer set and spacer placer

WARRANTY:
Electrophoresis system is backed by a three-year warranty.

Description	Cat. No.	Each
Vertical System plus Mini Tank Electroblotter	**FB250**	1200.00

FisherBiotech™ Vertical Electrophoresis Systems

Standard Gel System

Choice of 10 × 10cm, 16 × 14cm or 20 × 20cm gel size

FB-VE20-1, FB-VE16-1, FB-VE10-1

Key Features

- Systems are double-sided, allowing two protein gels to be run simultaneously
- Gel assemblies don't need to be moved after the gel is set
- Sliding clamp assemblies make system setup a snap and prevent leaks
- Electrode configuration reduces run times
- Increased electrode surface area provides exceptional field uniformity

Safety Features

- Asymmetrical shape prevents mismatching of electrodes
- Interlocking safety lid with attached power cords protects against electric shock

System Components

	FB-VE10-1	*FB-VE16-1*	*FB-VE20-1*
Upper Buffer Chamber with Cooling Chamber	Yes	Yes	Yes
Lower Buffer Chamber	Yes	Yes	Yes
Safety Lid (with attached power supply leads)	Yes	Yes	Yes
Gaskets	Yes	Yes	Yes
Clamp Assemblies	Four	Four	Four
Gel Caster	Yes	Yes	No
Plates	Four blank and two notched glass plates, two notched alumina plates	Four blank and two notched glass plates	Four blank and four notched glass plates
Combs	Two 10-well, 0.8mm thick	Two 10-well and two 15-well, 1.5mm thick	Two 15-well and two 20-well, 1.5mm thick
Side Spacers	Four, 0.8mm thick	Eight, 1.5mm thick	Eight, 1.5mm thick

Gel Size	Buffer Volume	L × W × H	Cat. No.	Each
10 × 10cm	300mL	4.75 × 6.75 × 5.93" (12 × 17 × 15cm)	**FB-VE10-1**	1035.00
16 × 14cm	550mL	5.5 × 9.5 × 8.25" (14 × 24 × 21cm)	**FB-VE16-1**	1654.00
20 × 20cm	1150mL	6.5 × 12.19 × 9.5" (16.5 × 31 × 24cm)	**FB-VE20-1**	1669.00

Hoefer™ Mighty Small™ II Mini Vertical Electrophoresis Systems

Combine the advantages of a small format and efficient cooling for rapid screening of protein and nucleic acids

- Run two gels at once
- Produce high-resolution separations in as little as 45 minutes with no band "smiling"
- Use alumina plates (included with specified models) for efficient cooling
- Buffer volume: 300mL

APPLICATIONS:
Ideal for uniform and gradient acrylamide, agarose, IEF, field inversion agarose and 2-D electrophoresis

INCLUDES:
SE250 Basic System includes: upper buffer chamber, lower buffer chamber, interlocking safety lid with leads, ten 10 × 8cm glass plates, two 10 × 8cm notched alumina plates, four spring clamps, gel seal, well locating decal and Spacer Mate. SE250 Complete System also includes: dual Gel Caster, two 0.75mm thick 10-well combs and two pairs 0.75mm thick spacers. SE260 Basic System includes same items as SE250 Basic Systems, except the glass and alumina plates. SE260 Complete Systems add Dual Gel Caster, ten 10.5 × 10cm glass plates, five 10.5 × 10cm notched alumina plates, and two 10-well combs and two pairs spacers (either 0.75mm or 1.5mm thick; see ordering table).

CERTIFICATIONS:
CE Marked, CSA C22.2 1010.1, EN61010-1, UL3101-1.

03-500-111

Model	Gel L × W	Mfr. No.	Cat. No.	Each
SE250 Basic	10 × 8cm	SE250	**03-500-483**	721.00
SE250 Complete with 0.75mm-thick combs/ spacers	10 × 8cm	SE250-10A-.75	**03-500-110**	1108.00
SE260 Basic	10 × 8cm or 10.5 × 10cm	SE260B	**03-500-490**	786.50
SE260 Complete with 0.75mm-thick combs/ spacers	10 × 8cm or 10.5 × 10cm	SE260-10A-.75	**03-500-111**	1140.00
SE260 Complete with 1.5mm-thick combs/ spacers	10 × 8cm or 10.5 × 10cm	SE260-10A-1.5	**SE26010A15**	1047.00

Hoefer™ MiniVE Mini Vertical Electrophoresis Unit

Accepts gels up to 10 × 10.5cm, increasing separation length by more than 20% over conventional 10 × 8cm gels

- Gel module is simultaneously a casting stand and an upper buffer chamber
- Cooling system assures the temperature uniformity required for straight lanes and flat bands
- Optional blot module (Mfr. No. SE302) permits gels to be cast, run and blot in one instrument

INCLUDES:
Tank with lid, three 10 × 10.5cm rectangular glass plates, three 10 × 10.5cm notched glass plates, two gel modules, two 1mm thick 10-well combs, two 1mm thick spacer sets

03-500-108

Gel Size	Buffer Volume	L × W × H	Mfr. No.	Cat. No.	Each
10 × 10.5cm or 10 × 8cm	1.4L	7.38 × 7.63 × 6.75" (18.8 × 19.2 × 17.2cm)	SE300-10A-1.0	**03-500-108**	1169.05

Hoefer™ SE 400 Series Sturdier™ Air-Cooled Vertical Electrophoresis Systems

Economical units ideal for applications in which temperature control is not crucial

- Units run one gel, or two with optional divider plate
- Built-in casting stand seals sandwiches leak-free without tape
- Rugged injection-molded construction for easy assembly and durability in high-use labs
- Plates, clamps, spacers and combs are interchangeable with SE 600 series units

INCLUDES:
Upper buffer chamber (UBC), safety lid with electrodes, lower buffer chamber and casting stand on leveling base with high voltage leads, glass plates, clamp assemblies, cams, slotted gasket for UBC, spirit level, laminated gasket for casting stand, Spacer-Mate alignment template, Wonder Wedge plate separation tool and gel seal. Model SE 400 complete also includes 15-well comb and set of 1.5mm thick spacers.

CERTIFICATIONS:
EN61010-1, UL3101-1, CSA C22.2 1010.1, CE Marked.

03-500-500

System	Gel Size	Buffer Volume	L × W × H	Mfr. No.	Cat. No.	Each
SE 400	18 × 16cm	700mL	6 × 9.5 × 11" (15 × 24 × 28cm)	SE400-15-1.5	**03-500-500**	1321.00

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Hoefer™ SE 600 Series Vertical Electrophoresis Systems

Built-in heat exchanger maintains temperature between 1° and 45°C (33.8° and 113°F) for faster runs with superior quality results

- Run one gel or two gels simultaneously, four with optional divider plates
- Produce straight lanes and sharp, well-defined bands — no "smiling"
- Provide two mechanisms to dissipate heat
- Gel sandwiches are completely immersed in the lower buffer so that heat is transferred evenly on both sides of the gel
- A heat exchanger suspended vertically in the lower chamber cools or heats buffer evenly

APPLICATIONS:
Suitable for denaturing and native polyacrylamide, 2-D, isoelectric focusing and agarose gel electrophoresis

CERTIFICATIONS:
UL3101-1, CSA C22.2 1010.1, CE Certified, EN61010-1

03-500-100

System Components

	SE600 Chroma	*SE600 Complete*	*SE600 Basic*
Lower Buffer Chamber	Yes	Yes	Yes
Safety Lid w/Leads	Yes	Yes	Yes
Upper Buffer Chamber w/Cathode	Yes	Yes	Yes
Heat-exchanger w/Anode	Yes	Yes	Yes
Dual-gel Casting Stand w/Leveling Base and Level	Yes	Yes	Yes
Buffer Dam	Yes	Yes	Yes
Spacer-Mate Alignment Template	Yes	Yes	Yes
Wonder Wedge Plate Separation Tool	Yes	Yes	Yes
Gel Seal	Yes	Yes	Yes
Glass Plates	Three sets (18 × 16cm)	Three sets (18 × 16cm)	Three sets (18 × 16cm)
Clamp Assemblies	Four (16cm)	Four (16cm)	Four (16cm)
Cams	Six	Six	Six
Combs	Two 15-well	Two 15-well	----
Spacers	Two sets (1.5mm thick, 2cm wide)	Two sets (1.5mm thick, 2cm wide)	----

System	Gel Size	Buffer Volume	L × W × H	Mfr. No.	Cat. No.	Each
SE600 Chroma	18 × 16cm or 18 × 8cm	5L	12.5 × 5.5 × 11.5" (32 × 14 × 29cm)	SE600X-15-1.5	**03-500-100**	2040.43
SE600 Complete	18 × 16cm or 18 × 8cm	5L	12.5 × 5.5 × 11.5" (32 × 14 × 29cm)	SE600-15-1.5	**03-500-101**	1752.00
SE600 Basic	18 × 16cm or 18 × 8cm	5L	12.5 × 5.5 × 11.5" (32 × 14 × 29cm)	SE600	**03-500-238**	1649.00

LabReporter
QUARTERLY MAGAZINE

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Thermo Scientific™ Owl™ Dual-Gel Vertical Electrophoresis Systems

Eliminate the mess and inconvenience of conventional polyacrylamide gel casting

Easy-to-use systems. Simply secure the glass cassettes, pour the agarose plug in the specially designed trough, cast polyacrylamide solution in the cassettes, load samples and run the gel.

- Manufactured using a time-tested acrylic fabrication technology, providing a durable, long-lasting system
- Central cooling core provides even cooling across the gel surface for outstanding resolution and clear banding
- Cooling is achieved by circulating fluid through the core with external circulator or cool tap water
- Very simple clamping mechanism makes loading glass cassettes and most manufacturers' precast gels trouble-free

APPLICATIONS:
Ideal for SDS electrophoresis, the second dimension of two-dimensional (2-D) electrophoresis, agarose electrophoresis and native electrophoresis

INCLUDES:
Components of complete systems/complete systems with gel casters differ by model as listed below. Apparatus-only units include buffer chamber with internal cooling core, lower buffer chamber and SuperSafe™ lid (with attached power supply leads).

Cat. No. OWP8DS-2/09-518-157B include buffer chamber with internal cooling core, lower buffer chamber, SuperSafe lid (with attached power supply leads), blocking plate, four blank and two notched glass plates, two notched alumina plates, two 10-well 0.8mm thick combs, 0.8mm thick spacer set and spacer placer. 09-518-157B also includes FSJGC4 Gel Caster.

OWP8DS-2

Cat. No. OWP9DS-2/09-518-157C include buffer chamber with internal cooling core, lower buffer chamber, SuperSafe lid (with attached power supply leads), blocking plate, four blank and four notched glass plates, two 10-well 1.5mm thick combs, two 15-well 1.5mm thick combs, 1.5mm thick spacer set and spacer placer. 09-518-157C also includes FSJGC2 Gel Caster

Cat. No. OWP10DS-2/OWP10DS-1 include buffer chamber with internal cooling core, lower buffer chamber, SuperSafe lid (with attached power supply leads), blocking plate, four blank and four notched glass plates, two 15-well 1.5mm thick combs, two 20-well 1.5mm thick combs, 1.5mm thick spacer set and spacer placer. OWP10DS-1 also includes FSJGC3 Gel Caster.

WARRANTY:
Three-year warranty

Gel Size	System	Buffer Volume	L × W × H	Mfr. No.	Cat. No.	Each
8–10 × 10cm	Complete System	300mL	6.7 × 5.1 × 5.5" (17 × 13 × 14cm)	P8DS-2	**OWP8DS-2**	877.53
8–10 × 10cm	Complete System plus Caster	300mL	6.7 × 5.1 × 5.5" (17 × 13 × 14cm)	P8DS-1	**09-518-157B**	940.50
14–16 × 16cm	Complete System	550mL	9.8 × 5.1 × 7.7" (25 × 13 × 19.5cm)	P9DS-2	**OWP9DS-2**	1442.00
14–16 × 16cm	Complete System plus Caster	550mL	9.8 × 5.1 × 7.7" (25 × 13 × 19.5cm)	P9DS-1	**09-518-157C**	1525.72
20 × 20cm	Complete System	1150mL	12 × 6.5 × 9" (30.5 × 16.5 × 23cm)	P10DS-2	**OWP10DS-2**	1561.00
20 × 20cm	Complete System plus Caster	1150mL	12 × 6.5 × 9" (30.5 × 16.5 × 23cm)	P10DS-1	**OWP10DS-1**	1571.00

GE™ Healthcare Amersham™ ECL™ Gel Box

A horizontal unit for high quality protein electrophoresis; designed to make PAGE as easy as agarose gel DNA electrophoresis

- Horizontal electrophoresis system with virtually no assembly required
- Designed for convenience: horizontal format enables easy sample loading and low buffer consumption

Specifications	
Dimensions (W × H × D)	167 × 148 × 43.5mm (6.6 × 5.8 × 1.7")
Maximum Voltage	200V
Maximum Power	20w
Recommended Power Supply	EPS 301
Operating Temperature	4 to 40°C
Storage Temperature	Room temperature
Running Buffer Consumption	190 mL per gel
Electrophoresis Run Time	1 hr

45-002-481

Description	Mfr. No.	Cat. No.	Price
Amersham ECL Gel Box	28990608	**45-002-481**	103.22

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2-D Electrophoresis

GE™ Healthcare Multiphor™ II Flatbed Electrophoresis System

The modular design of Multiphor II gives it the flexibility to handle virtually any flatbed electrophoretic technique

45-000-432

- Configure the system for 1-D or 2-D protein electrophoresis or DNA fragment analysis
- Adjustable electrodes allow use of different sized gels up to 20 × 26cm
- Select from a wide range of precast gels or cast gels for unique applications
- Run up to 12 IPG strips (7–24cm) simultaneously
- Allows cooling of ultra-thin gels efficiently and uniformly through the ceramic cooling plate for improved resolution and speed at high voltages
- Particularly well-suited for ultra-thin gels (0.1-0.5mm) on glass or plastic supports
- Also compatible with various types of buffer strips, eliminating the need for large volumes of liquid buffers

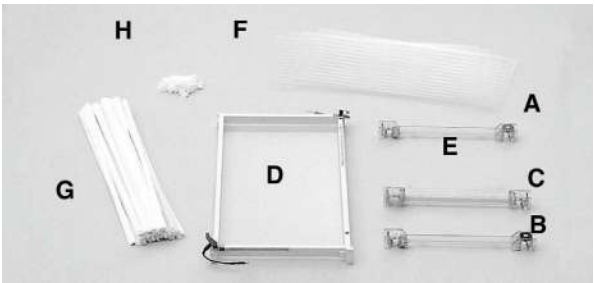
INCLUDES:
Buffer tank; leveling feet; safety lid with high-voltage leads; ceramic cooling plate, 21.0 × 27.0cm; grommets; hose clamps; cooling tubing, 8mm I.D., 12mm O.D.; tubing connector set, female and male; electrode holder; EPH/IEF anode; EPH/IEF cathode

CERTIFICATIONS:
CE 89/336/EEC (EMC directive); CE 73/23/EEC (LV directive); EN-61010-1 (IEC1010-1, UL3101-1, CSA22.2 1010-1)

Description	Mfr. No.	Cat. No.	Price
Flatbed Electrophoresis System	18-1018-06	**45-000-432**	3894.80

GE™ Healthcare Immobiline™ DryStrip Kit

Designed for running the first dimension of 2-D electrophoresis using Immobiline DryStrip gels with the Multiphor™ II Electrophoresis System



45-001-798 A: Anode, B: Cathode, C: Sample cup bar, D: Tray and electrode holder, E: Sample cups, F: DryStrip aligners, G: IEF electrode strips, F: Sample application pieces

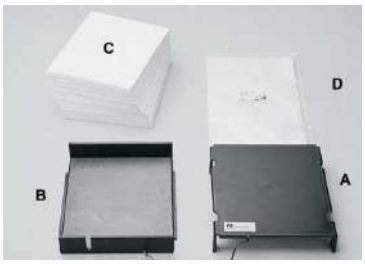
Run up to 12 Immobiline DryStrip strips simultaneously with up to 100µL on each Immobiline DryStrip.

INCLUDES:
Kit includes anode, cathode, sample cup bar, tray and electrode holder, 100µL sample cups, DryStrip aligners, IEF electrode strips and sample application pieces.

Description	Mfr. No.	Cat. No.	Price
Immobiline DryStrip Kit	18-1004-30	**45-001-798**	2429.67

GE™ Healthcare NovaBlot™ Kit

For electrophoretic transfer of proteins from polyacrylamide or agarose gels to an immobilizing membrane



45-000-430

- For use with Multiphor II
- Accepts up to six gels for simultaneous transfer by assembling two transfer sandwiches side by side
- Transfer usually takes less than an hour and does not require a cooling period at the end of the transfer
- Electrodes included in the kit are made of graphite to provide an even distribution of current across the entire surface
- Gel dimension: 200 × 250mm

APPLICATIONS:

- Electrophoretic transfer
- General protein staining
- Immunoblotting
- Glycoprotein detection

INCLUDES:

- 1 × electrode cathode
- 1 × electrode anode
- 500 × electrode paper (200 × 250mm)
- 50 × cellophane sheet (210 × 320mm)

Description	Mfr. No.	Cat. No.	Each
NovaBlot Kit	18-1016-86	**45-000-430**	1343.92

GE™ Healthcare Ettan™ IPGphor™ 3 Isoelectric Focusing System

Fully integrated equipment optimized to deliver high throughput, speed, reproducibility and high protein-loading capacity

This instrument is optimized for easy handling of CyDye™ labeled proteins and other light-sensitive samples and provides temperature control critical for reproducibility in 2-D DIGE (Difference Gel Electrophoresis) experiments. Any number of protocols can be stored on a connected PC running Ettan IPGphor 3 control software and uploaded to the instrument instantly. Increased safety features ensure safe high-voltage runs with total start/stop control from PC.

Isoelectric Focusing Unit

- Large alphanumeric graphical display accomodates up to four lines of text for fast and easy programming
- Aluminum oxide ceramic base, acrylic cover and polycarbonate, platinum on titanium
- Up to ten protocols (nine steps each) can be saved, retrieved and easily edited
- Temperature control from 15° to 31°C
- Run up to 12 IPG strips (7, 11, 13, 18 or 24cm) simultaneously

Control Software

- Generates professional graphical reports with large user interface for programming and editing
- Create, save and edit protocols and also pause during run to edit protocol in real time
- Control up to four Ettan IPGphor 3 IEF units simultaneously, each running different set of run parameters
- Enables web browser remote monitoring of PC control unit

Isoelectric Focusing Unit

- Integrated high-voltage DC power supply delivering up to 10KV
- Secure light protection during run, compatible with CyDye-labeled proteins and other light-sensitive stains
- Programming from control panel or in Ettan IPGphor 3 control software
- Automatic voltage cutoff when safety lid is opened
- Chemical resistant parts provide stability
- Number of Gels: 1 to 12
- Electrical requirements: 1000V 50/60Hz <1.5mA, <12w
- Main voltage: 115VAC/220VAC
- Operating humidity: 0 to 0.7
- Dimensions: 9.8 × 5.5 × 18.1" (25 × 14 × 46cm)

45-002-623

Control Software

- Stored log files of previous runs can be opened and viewed and status reports can be generated along with instantaneous run condition reports on request
- Microsoft™ Excel™ and other log files can be exported
- Monitors voltage, current and volt-hours of run
- Exports can be created, saved, printed and exported

INCLUDES:
Basic unit, cable, Ettan IPGphor 3 control software and Ettan IPGphor 3 tutorial CD

Description	Mfr. No.	Cat. No.	Each
IPGphor 3 Isoelectric Focusing System	11003364	**45-002-623**	9118.00

GE™ Healthcare IPGbox and IPGbox Kit

Tools for enhancing reswelling of precast Immobiline DryStrip gels (IPG strips)

- Oil free rehydratation of up to 12 Immobiline DryStrip gels or other IPG strips independently and simultaneously
- Lid protects IPG strips from dust and contamination
- Load samples for IEF during rehydration by including them in the rehydration buffer or load sample using sample cups
- IPGbox used together with IPGbox Kit to rehydrate 7 to 24cm Immobiline DryStrip gels
- Includes reswelling tray made of hydrophobic material to prevent sticking of rehydration solution
- IPGbox Insert located within lid of IPGbox to maintain optimal conditions for rehydration

INCLUDES:
IPGbox Kit: 10 Reswell trays, 1 IPGbox insert, instructions; IPGbox: 1 IPGbox, 1 IPGbox Kit (10 Reswell trays, 1 IPGbox insert, instructions)

Description	Includes	Mfr. No.	Cat. No.	Each
IPGbox Kit	10 Reswell trays, 1 IPGbox	28933492	**45-0026-27**	82.20
IPGbox	1 IPGbox, 1 IPGbox Kit (10 Reswell trays, 1 IPGbox)	28933465	**45-0026-31**	404.07

45-0026-31

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GE™ Healthcare pI Markers

pI markers are lyophilized mixtures of stable, salt-free, highly purified proteins

The markers may be run in parallel with experimental samples on isoelectric focusing gels and are not prestained.

- The precisely defined pI of the markers allows a permanent and accurate calibration of sample components
- pH gradients and pI can be measured to within 0.01 to 0.05 pH unit
- The progress of the focusing experiment can be monitored visually by the focusing of methyl red or Cytochrome c

STORAGE: Store at 4°C.

NOTES: Not for use in denaturing (urea) systems.

Type	Mfr. No.	Cat. No.	Each
Broad pI Kit; pH 3-10	17-0471-01	**45-000-081**	305.55
Low pI Kit; pH 2.5-6.5	17-0472-01	**45-000-082**	286.76
High pI Kit; pH 5-10.5	17-0473-01	**45-000-083**	281.40

GE™ Healthcare Immobiline™ DryStrip Gels

Represent a comprehensive selection of narrow-, medium- and wide-range IPG strips

45-000-350

Choose from a comprehensive range of overlapping Immobiline DryStrip gels that cover narrow (1 pH unit), medium (3 to 5 pH units) and broad (8 pH units) pH ranges. The pH gradients at the extreme ends of the pH scale are nonlinear to distribute the proteins evenly over the gel length to obtain maximum resolution.

- Five narrow pH range (1 pH unit), 24-cm IPG strips deliver high resolution and protein loading capacity, which results in well separated spots with high protein content after the second-dimension separation
- Select the broad pH 3 to 11 Non-Linear (NL) gradient Immobiline DryStrip gel for fast and efficient screening to gain a broad overview of total protein disribution
- For more detailed studies or when using greater protein loads, choose from four new overlapping strips covering the pH 3 to 11 range
- Higher resolution can be obtained using narrow-range (1 pH unit) Immobiline DryStrip gels
- Use matching IPG buffers for optimized running conditions
- Other lengths and pH ranges available, see www.fishersci.com for more details

pH Range	Mfr. No.	Cat. No.	Each
Length: 13cm			
pH 3-10	17-6001-14	**45-000-350**	135.25
pH 4-7	17-6001-13	**45-000-349**	135.25

Hoefer™ IEF100 IEF First-Dimension Unit

Versatile unit accepts up to six 24cm IPG strips or twelve 7cm IGP strips using the dual electrode assembly included

IEF100NA

Fully functional, integrated, isoelectric focusing instrument designed for two-dimensional (2-D) electrophoresis applications. Integrated instrument incorporates a controlled temperature platform and an internal high-voltage power supply.

Key Features

- 12,000V, 10mA output for very powerful and faster runs
- Constant power run mode provides even temperature control during runs
- Individual strip monitoring feature allows each strip to be tracked separately
- Data automatically sent to RS-232 and ethernet ports

Interface Features

- Easy-to-use interface utilizes a control knob and soft keys for quick setup and navigation
- Large display allows entire protocol to be viewed on one screen
- Volt and current profiles can be viewed graphically
- Graphical run results aid in troubleshooting

Running Tray Features

- One tray for all IPG strips
- Tray clamps down to improve heat transfer
- Numbered lanes
- Precut electrode wicks
- Electrodes push/lock into place
- Samples can be loaded using sample cups or rehydration

Specifications	
Capacity	One to six strips, 7 to 24cm long or twelve 7cm long
Output Voltage	12,000V
Output Current	10mA
Resolution	1µA
Platform Temperature	15°-25°C
Relative Humidity	0-80%
Sample Cup Capacity	240µL
Trays	Plastic running tray for up to six 7-24cm strips; Rehydration/equilibration tray for 7-24cm strips
L × W × H	10.25 × 14.63 × 6.75" (26 × 37 × 17cm)
Electrical Requirements	100-240VAC, 50-60Hz, 100w

Description	Mfr. No.	Cat. No.	Each
IEF100 IEF First-Dimension Unit	IEF100	**IEF100NA**	7600.00

Hoefer™ Large 2-Dimensional Electrophoresis Systems

Offer a versatile, powerful focusing unit for the first dimension and an easy-to-use, highly reproducible, second-dimension separation tank

Combine the IEF100 First-Dimension Unit and the SE900 Second-Dimension Unit. Mfr. No. 590003 adds a 600V, 500mA, 150w power supply.

IEF100 First-Dimension Unit

- Versatile unit accepts up to six 7-24cm IPG strips or twelve 7cm IPG strips using the dual electrode assembly included
- 12,000V, 10mA output for very powerful and faster runs
- Constant power run mode provides even temperature control during runs
- Individual strip monitoring feature allows each strip to be tracked separately

SE900 Second-Dimension Unit

- Ideal for use with 24cm IPG strips
- Runs 1-6 gels
- Simple to use — utilizes minimal parts and provides efficient cooling

Power Supply

- Maximum output: 600V, 750mA, 150w
- Stores/recalls nine protocols, each with up to nine steps; includes integral datalogger
- Timer or volt-hr. control with alarm

E2D-ELITE

INCLUDES:
One IEF100 First-Dimension Unit with one sealed bag of 252 wicks, one running tray, two rehydration trays, one cleaning brush, one set of forceps and ten sets of running cups (each set containing six sample cups); one SE 900 Second-Dimension Unit (tank, lid and gel rack); six 28 × 21cm hinged glass cassettes and one large format gel caster with accessories

NOTES: See www.fishersci.com for other configuration options

Description	Mfr. No.	Cat. No.	Price
System with multicaster and cassettes	E2D ELITE	**E2D-ELITE**	14,445.01

Electroblotting

Thermo Scientific Pierce G2 Fast Blotter

Rapid and efficient protein transfer at your fingertips

The Pierce G2 Fast Blotter achieves highly efficient transfer in less than 10 minutes when used with Pierce 1-Step Transfer Buffer (Part No. 84731). The instrument is also effective for standard 30- to 60-minute semi-dry transfer protocols based on traditional buffers.

Highlights:

- Fast — transfer proteins in 5 to 10 minutes when used with 1-Step Transfer Buffer
- Efficient — achieve high transfer efficiency with a broad range of protein sizes (10-300kDa) compared to conventional semi-dry or wet (tank) transfer methods
- Integrated power supply — seamless operation between control unit and cassette provides consistent high efficiency protein transfer
- Easy-touch programming — access pre-programmed transfer methods or create, save and run customized transfer methods
- Convenient — simultaneously transfer 1 to 4 mini gels or 1 to 2 medium-sized gels
- Versatile — use with Pierce 1-Step Transfer Buffer for rapid blotting programs or Towbin transfer buffer for conventional semi-dry transfer methods

APPLICATIONS:
Semi-dry Western blot transfer of 10-300kDa proteins from polyacrylamide gels to nitrocellulose or PVDF membranes

INCLUDES:
System consists of the Pierce G2 Fast Blotter Control Unit and Pierce G2 Fast Blotter Cassette; kit includes Western blot roller, power cord with C/13 connector, and quick start guide. The unit ships with North American power cord; country-specific power cords are also available.

Pierce G2 Fast Blotter

Item Name	Cat No.	Each
Pierce G2 Fast Blotter	**PI-62288**	2741.95

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

FisherBiotech™ Semidry Blotting Apparatus

Sleek, low-profile system for fast, efficient Western transfers

Transfers minigels in 15 to 30 minutes and full-sized gels in 30 to 60 minutes, with efficiencies of nearly 90%.

FB-SDB-2020 with power supply (available separately)

- Multiple gels can be transferred by stacking gel/membrane/filter paper "sandwiches"
- Because plate electrodes are in direct contact with "sandwich," a homogeneous electric field is created, ensuring even transfers
- System requires only minimal amounts of buffer (about 250mL)
- Low voltage — requires less than 1mA/cm^2 of current; no external cooling is necessary
- Features 20 × 20cm platinum-coated titanium anode and stainless-steel cathode

APPLICATIONS:

- Transfers proteins from polyacrylamide electrophoresis gels onto hybridization membranes (Western transfers)
- Ideal for membrane-based, solid-phase protein assays such as HIV testing, where viral antigens are assayed with patient antibodies
- Use to detect trace proteins in complex mixtures and study protein interaction with other molecules (i.e., DNA)

INCLUDES:

Lid with anode, base with cathode, connecting knobs, power cords

Transfer Area	Overall L × W × H	Cat. No.	Each
20 × 20cm	9.81 × 9.81 × 2.81" (25 × 25 × 5cm)	**FB-SDB-2020**	1166.00

Hoefer™ TE42 and TE62 Tank Blotting Units

Perform high-intensity protein transfers in one hour

03-500-217

- Over 1.5m of platinum wire per electrode provides uniform field strength for efficient transfers
- Hinged, color-coded cassettes enable simple loading and easy orientation of gel sandwich
- Buffer volumes of 4 to 5L required, depending on number of cassettes processed
- Model TE62 offers a built-in heat exchanger in the base of the unit
- Model TE42 can be used with optional heat exchanger (Mfr. No. TE47)

CERTIFICATIONS:

CE marked, CSA C22.2 1010.1, EN61010-1, UL3101-1

Components	*Model TE42*	*Model TE62*
Buffer Chamber	Standard	With built-in heat exchanger
Electrode Panels	2	2
Gel Cassettes	2	4
0.13" Thick Foam Sponges	4	8
0.25" Thick Foam Sponges	2	4
Blotting Paper	25 sheets	25 sheets

Accommodates	Buffer Volume	Overall L × W × H	Mfr. No.	Cat. No.	Each
Standard Model					
4 15 × 21cm gels or 16 minigels	4 to 5L	6.5 × 5.5 × 9.5" (16.5 × 14 × 24cm)	TE42	**03-500-217**	1708.00
Model with Built-in Heat Exchanger					
4 15 × 21cm gels or 16 minigels	4 to 5L	6.5 × 5.5 × 9.5" (16.5 × 14 × 24cm)	TE62	**03-500-218**	1804.00

Hoefer™ TE22 Mini Tank Blotting Unit

Safe, economical unit requires minimal current and only about 1L of buffer

03-500-216

- Built-in alumina heat exchanger permits efficient transfers in less than one hour
- Platinum electrode ensures uniform electrical field for complete and even transfers
- Hinged, color-coded cassettes enable simple loading and easy orientation of gel sandwich
- Alumina-covered serpentine channel in base provides excellent temperature control with no more than 5°C rise during a normal run

INCLUDES:

Buffer chamber, lid with leads, two electrode panels, four gel cassettes, eight 0.13" thick foam sponges, four 0.25" thick foam sponges, 25 sheets blotting paper

CERTIFICATIONS:

CE marked, CSA C22.2 1010.1, EN61010-1, UL3101-1

Accommodates	Buffer Volume	Mfr. No.	Cat. No.	Each
4 small gels up to 9 × 10cm	~1L	TE22	**03-500-216**	1352.00

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

Hoefer™ TE70X and TE77X Semidry Blotting Systems

Perform uniform transfers of proteins and nucleic acids from polyacrylamide and agarose gels in less than one hour

- Transfer up to two polyacrylamide gels in a stack
- Use minimal buffer
- Do not generate the excessive heat that can distort bands or denature protein
- Utilize durable iridium oxide and stainless-steel electrodes to assure uniform, contamination-free transfers
- Offer automatic transfer-stopping feature to prevent overheating when buffer is depleted
- Available with built-in power supply to save space and simplify transfer

03-500-611

INCLUDES:
Molded base with iridium oxide anode, top assembly with stainless-steel cathode, power cables, 25 sheets of blotting paper, 50 sheets of cellophane (Mfr. Nos. TE70X and TE70XP only), two solid Mylar™ masks

CERTIFICATIONS:
CE marked, CSA C22.2 1010.1, EN61010-1, UL3101-1

Accommodates	Overall L × W × H	Mfr. No.	Cat. No.	Each
Standard models				
21 × 26cm gels or 4 minigels side-by-side	18.88 × 15 × 4" (48 × 38 × 10cm)	TE77X	**03-500-611**	1877.00
Models with built-in power supply				
14 × 16cm gels or 2 minigels side-by-side	18.88 × 15 × 4" (48 × 38 × 10cm)	TE70XP	**03-500-612**	1970.00
21 × 26cm gels or 4 minigels side-by-side	18.88 × 15 × 4" (48 × 38 × 10cm)	TE77XP	**03-500-613**	2440.00

Thermo Scientific™ Owl™ HEP Series Semidry Electroblotting Systems

Faster blots with high efficiency

- Fast, efficient transfer of proteins and nucleic acids to membranes
- Transfers may be done in as little as 15 minutes
- Buffer contained within blotting paper is sufficient for efficient transfer of molecules
- Base contains stainless-steel cathode plate; lid has platinum/titanium anode plate
- Ideal for proteins less than 150kDa

OWHEP3

INCLUDES:
Base, lid, power supply leads, heavy-duty knobs

Accommodates	Overall L × W × H	Mfr. No.	Cat. No.	Each
4 minigels or other size gels totalling 20 × 20cm	9.88 × 9.88× 2" (25 × 25 × 5cm)	HEP-1	**OWHEP1**	1145.00
8 minigels or other size gels totalling 35 × 45cm	19.88 × 15.63 × 2" (51 × 40 × 5cm)	HEP-3	**OWHEP3**	2870.29

DNA Sequencing Systems

FisherBiotech™ DNA Sequencing Systems

Run samples in all gel lanes without loss of data or questionable interpretation of the banding pattern

- Integral anodized aluminum backplate distributes heat evenly across the entire gel surface to minimize band "smiling"
- Screw clamps are mounted directly on the unit to ensure leakproof seal between gel sandwich and upper buffer chamber
- Removable waste bottle allows for easy buffer disposal
- Interlocking lids on upper and lower chambers provide safety

INCLUDES:
Main chamber with aluminum backplate, clamps, removable lower buffer chamber, two notched glass plates, two blank glass plates, two sharktooth combs, one well comb, two spacer sets

REQUIRES: High-voltage power supply

FB-SEQ-3545

Gel W × L	Glass Plate W × L	Buffer Volume	Overall L × W × H	Cat. No.	Each
12.99 × 16.53" (33 × 42cm)	13.77 × 17.71" (35 × 45cm)	27.05 oz. (800mL)	9.05 × 17.32 × 19.68" (23 × 44 × 50cm)	**FB-SEQ-3545**	2060.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Gel Drying Systems

Hoefer™ GD 2000 Gel Dryer System

Dries gels rapidly, evenly and safely using a dry-heat vacuum method

Gel Dryer Features

- Drying surface accommodates acrylamide and agarose gels up to 33 × 44cm
- Heat and vacuum are applied beneath the gel through a heavy aluminum platen, providing even heat and even vacuum distribution
- Thermostat is adjustable from 40° to 80°C, ±2°C
- Timers for heat and for vacuum can be set independently
- Clear silicone cover sheet allows user to view the gel during drying

Pump Features

- Quiet, oil-free diaphragm pump maintains the low vacuum necessary for rapid gel drying
- No trap required

INCLUDES:
GD 2000 Gel Dryer, VP 200 Vacuum Pump and VT 3 Vacuum Tubing

CERTIFICATIONS:
CE marked, UL listed, CSA approved

Electrical Requirements	Mfr. No.	Cat. No.	Each
115VAC	GD2000-115V	**03-500-305**	5320.00

03-500-305

Specifications	
Gel Dryer	
Drying Surface	13 × 17.25" (33 × 44cm)
Temperature Control	40° to 80°C (104° to 176°F)
Timer	Built-in; 0 to 9 hr. 59 min.; Run function for continuous operation
Vacuum Connection	For 0.37" (9mm) I.D. tubing
L × W × H	17 × 21.63 × 3.38" (43.5 × 55.0 × 8.5cm)
Net Weight	17.63 lb. (8kg)
Pump	
L × W × H	9.5 × 12.25 × 11.63" (24.0 × 31.0 × 29.5cm)
Inlet	0.37" (9mm) I.D. tubing
Net Weight	29.75 lb. (13.5kg)

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Power Supplies

FisherBiotech™ Electrophoresis Power Supplies

Easy-to-use power supplies designed for safety

Key Features

- Choice of operating modes — constant voltage or constant current output modes with automatic crossover between modes; programmable models add a constant power mode
- Automatic shutoff (at run's end) saves time, energy and reduces errors
- Automatic recovery (after power failure) eliminates need to restart the unit

Additional Features

- Backlit LED display, mode indicator lights, internal timer and multiple output jacks
- Soft-touch keypad controls allow user to select modes and output levels, set timer and start/stop operation
- Power-off memory retains settings after shutdown
- Lightweight, stackable design allows use of multiple units while saving space on the benchtop
- Locking kickstand permits positioning the unit at an angle for better viewing
- Standard safety features include no-load and failure notification, arc and ground leak detection, overvoltage protection and jacks that are set away from controls
- Nonskid rubber feet provide stability

Compact Model FB300Q

- Runs up to 3 gels at once at either constant current or constant voltage
- Uses less surface area than a sheet of paper
- Utilizes UP/DOWN arrow controls
- Ideal for SDS-PAGE, DGGE/CDGE and DNA/RNA submarine electrophoresis

High-Current Model FB200Q

- Uses a numeric keypad
- Perfect for high-current electroblotting (Western tank and semidry, Southern and Northern) and SDS-PAGE applications

FB300Q (top) and Programmable FB1000Q

Programmable Models FB1000Q and FB3000Q

- Enhanced features include a third, constant power mode and remote temperature probe
- Both models have a numeric keypad
- Nine-program memory with "list program" function for quick recall makes these units ideal for multi-user labs or multiple repetitive operations
- FB1000Q is designed for isoelectric focusing, SDS-PAGE and native SDS-PAGE
- FB3000Q is ideal for DNA sequencing and high-voltage electrophoresis applications

WARRANTY: 12 months

COMPLIANCE: CSA approved

NOTES: All outputs run with the same settings. Fisher Service Division offers several types of service agreements for the equipment featured here. For details on these agreements, equipment repairs and calibration services, see the front of the catalog. For immediate assistance, call **1-800-395-5442**.

Type	Maximum Voltage	Maximum Current	Maximum Power	No. of Jacks	Modes	Timer	L × W × H	Cat. No.	Each
120V									
Compact	300V	400mA	75w	3	Voltage or current	0 to 999 min.	10.25 × 5.5 × 5.25" (26 × 14 × 13.3cm)	**FB300Q**	595.00
High Current	200V	2.0A	200w	4	Voltage or current	99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	**FB200Q**	1151.00
Programmable	1000V	500mA	250w	4	Voltage, current or power	99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	**FB1000Q**	1538.00
Programmable	3000V	400mA	400w	4	Voltage, current or power	99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	**FB3000Q**	2620.00
240V									
Programmable	1000V	500mA	250w	4	Voltage, current or power	99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	**FB1000-1Q**	1634.00
Programmable	3000V	400mA	400w	4	Voltage, current or power	99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	**FB3000-1Q**	2760.00

ACCESSORIES

FisherBiotech™ Power Supply Adapter Set

- Permits electrophoresis systems with short or 90° pins to connect to the jacks of FisherBiotech Power Supplies

INCLUDES: One red and one black adapter

WARRANTY: 12 months

Description	Cat. No.	Each
Adapter Set for Electrophoresis Power Supplies	**FBAD1Q**	39.30

Hoefer™ Power Supply PS 2A200

High current power supply ideal for all types of electrophoresis blotting and short electrophoresis runs

- Can be run with constant voltage, constant current and constant power with automatic crossover
- Automatically continues a run after power failure
- Stores up to three protocols
- Offers four timer options: continuous run, set time run, set time run followed by hold at 5V or set volt-hour run
- Permits a log of run parameters via RS-232 port
- Provides compact design
- Offers overload/short circuit detection and no-load detection

03-500-112

CERTIFICATIONS: CE89/336/EEC (EMC Directive), CE73/23/EEC (LV Directive), CSA22.2 1010-1, EN-61010-1 (IEC1010-1), UL 3101-1

Electrical Requirements	Mfr. No.	Cat. No.	Each
90-265VAC 47-63Hz	PS2A200	**03-500-112**	2300.00

Hoefer™ PS300-B and PS200-HC Power Supplies

Large handle for easy transport

PS300BNA

Key Features

- Constant voltage and constant current modes
- Power failure detection
- Continuous runs or 999-minute timer
- No adapters required when used with Hoefer equipment — recommended 4mm plugs with fixed insulating sheaths are standard on most Hoefer equipment

Additional Features

- Large, easy-to-read LED display
- Small footprint
- Ergonomic design
- Net weight: 5.25 lb. (2.4kg)

APPLICATIONS:

- Cat. No. PS300BNA is designed for most electrophoresis techniques, including submarine gels, mini vertical gels and semidry transfers
- Cat. No. PS200HCNA is designed for all electrophoretic blot transfer applications

CERTIFICATIONS:
EN/UL 61010-1, CSA 22.2 1010.1

Description	Mfr. No.	Cat. No.	Each
Basic	PS300B	**PS300BNA**	739.00
High Current	PS200HC	**PS200HCNA**	1494.00

Thermo Scientific™ Electrophoresis Power Supplies

Suitable for a wide range of applications

- Designed for safety, with no-load and failure notification
- Overvoltage protection and jacks that are set away from controls

Standard Dual Mode Power Supplies

- Automatic power shutoff at end of run
- Automatic recovery after power failure
- Backlit LED display, mode indicator lights, timer and multiple output jacks
- Soft-touch keypad controls
- Memory retains settings after shutdown
- Stackable design allows use of multiple units in less space
- Locking kickstand permits positioning the unit at an angle for better viewing
- Nonskid rubber feet provide stability

High-Current Models EC 200XL

- Utilize a numeric keypad
- Suitable for high-current electroblotting (Western tank and semidry, Southern and Northern) and SDS-PAGE applications

High-Voltage Models EC 300XL

- Use UP/DOWN arrow controls
- Suitable for SDS-PAGE, DGGE/CDGE, and DNA/RNA submarine electrophoresis

FB-EC300XL

Programmable Power Supplies, Models EC 3000XL

- Additional features include a third, constant power mode, remote temperature probe and nine-program memory
- Feature a numeric keypad
- Suitable for DNA sequencing and high-voltage electrophoresis applications

WARRANTY:
Model 105ECA-LVD: Four-year warranty. All other models: 12-month warranty.

Maximum Voltage	Maximum Current	Maximum Power	No. of Jacks	Modes	Timer	L x W x H	Mfr. No.	Cat. No.	Each
300V	400mA	75w	3	Voltage or current	0-999 min.	10.25 × 5.5 × 5.25 " (26 × 14 × 13.3cm)	EC300XL	**FB-EC300XL**	664.00
200V	2000mA	200w	4	Voltage or current	0-99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	EC200XL	**FB-EC200XL**	1801.00
1000V	1000V	250w	4	Voltage, current or power	99 hr. 59 min.	12 × 10.75 × 5.25" (31 × 27 × 13.3cm)	EC1000XL	**FB-EC1000XL**	1743.00
3000V	400mA	400w	4	Voltage, current or power	0-99 hr. 59 min.	12 × 10.75 × 5.25 " (31 × 27 × 13.3cm)	EC3000XL	**FB-EC3000XL**	3000.00

Molecular Weight Markers

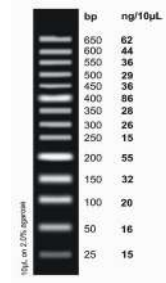
DNA Ladders

Fisher BioReagents™ exACTGene™ DNA Ladders

Ready-to-use DNA size standards are stable at room temperature — no need to thaw and refreeze

- Specially engineered to provide blunt-end DNA of precise length for better band quality than classic markers
- Ideal for size assessment and quantitative determination of DNA mass
- Contain loading dye to reduce pipetting steps and save time
- Have two or three high intensity reference bands for better sizing
- Provided in sufficient quantity to load 100 lanes

STORAGE:
Stable at room temperature for two years.



BP2570100

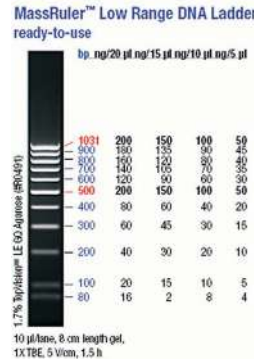
Marker (Base Pair Range)	No. of Bands	Application	Cat. No.	Each
50 bp Mini Ladder (25–650 bp)	14	PCR Size Confirmation	**BP2570100**	184.50
Low Range DNA Ladder (50–2000 bp)	8	Quick Check of PCR or Enzyme Digestion	**BP2572100**	186.80
100 bp PCR DNA Ladder (25–1000 bp)	12	PCR Size Confirmation and Small DNA Digests	**BP2571100**	177.90
100 bp DNA Ladder (100–1000 bp)	10	General Purpose, Small Size DNA	**BP2573100**	178.00
Low Range Plus DNA Ladder (100–2000 bp)	11	Fast Run Times, Small Size DNA	**BP2574100**	181.90
Cloning DNA Ladder (100–2686 bp)	14	Clone Identification	**BP2575100**	189.50
Mid Range DNA Ladder (300–5000 bp)	10	Large Size PCR or Cloning	**BP2576100**	184.90
Mid Range Plus DNA Ladder (100–5000 bp)	16	Small and Large Cloning Applications	**BP2577100**	178.70
1kb DNA Ladder (300–10,000 bp)	13	General Purpose, Large Digested DNA	**BP2578100**	171.20
1kb Plus DNA Ladder (100–10,000 bp)	19	General Purpose, Wide Size Range	**BP2579100**	170.70
24kb Max DNA Ladder (300–24,000 bp)	15	General Purpose, Extra Large Size	**BP2580100**	185.10

Thermo Scientific™ MassRuler™ Low Range DNA Ladder, Ready-to-Use, 80-1031 bp

Low range DNA ladder for accurate quantification and sizing of DNA fragments by agarose gel electrophoresis

The intensity of the fragment in each ladder is calibrated against a standard that guarantees the precise quantity of each band. The ladders are mixtures of chromatography-purified, individual DNA fragments.

- Accurate DNA sizing and quantification — DNA ladder fragments are quantified spectrophotometrically
- Sharp bands
- Easy-to-remember fragment sizes and quantities
- Ready-to-use — premixed with 6X MassRuler DNA Loading Dye for direct loading and room temperature storage
- Supplied with loading dye for sample DNA



MassRuler Low Range DNA Ladder, ready-to-use

ORDERING INFORMATION:
Orders placed Monday through Wednesday ship next day; Thursday and Friday orders ship the following Monday.

Quantity	Supplied With	Mfr. No.	Cat. No.	Each
Mass Ruler Low Range DNA Ladder, Ready-to-Use, 80 to 1031 bp				
50-200 applic.	6X MassRuler DNA Loading Dye, 1mL	SM0383	**FERSM0383**	111.20
Mass Ruler High Range DNA Ladder, Ready-to-Use, 1500 to 10,000 bp				
50-200 applic.	6X MassRuler DNA Loading Dye, 1mL	SM0393	**FERSM0393**	111.20
Mass Ruler DNA Ladder Mix, Ready-to-Use, 80-10,000 bp				
50-200 applic.	6X MassRuler DNA Loading Dye, 1mL	SM0403	**FERSM0403**	120.10

Thermo Scientific™ GeneRuler™ and O'GeneRuler™

The Thermo Scientific GeneRuler is a mixture of chromatography-purified individual DNA fragments. The O'GeneRuler comes premixed with 6X Orange DNA Loading Dyde, which contains xylene cyanol FF and orange G. The GeneRuler can be labeled radioactively with T4 Polynucleotide Kinase, while the O'GeneRuler is ideal when visualization of small DNA fragments are important.

GeneRuler 100 bp DNA Ladder

GeneRuler 1kb DNA Ladder

GeneRuler and O'GeneRuler

- Ideal for both DNA sizing and approximate quantification
- Sharp bands
- Bright reference bands (given in red)
- Supplied with loading dye for sample DNA
- O'GeneRuler can be directly loaded and is stable at room temperature for 6 months

ORDERING INFORMATION:
Orders placed Monday through Wednesday ship next day; Thursday and Friday orders ship the following Monday.

Quantity	Supplied With	Mfr. No.	Cat. No.	Each
GeneRuler 100 bp DNA Ladder				
50µg	6X DNA Loading Dye, 1mL	SM0241	**FERSM0241**	54.00
250 (5 × 50)µg	6X DNA Loading Dye, 2 × 1mL	SM0242	**FERSM0242**	215.00
GeneRuler 100 bp DNA Ladder, Ready-to-Use, 100-1000 bp				
100 applic.	6X DNA Loading Dye, 1mL	SM0243	**FERSM0243**	64.70
500 applic.	6X DNA Loading Dye, 2 × 1mL	SM0244	**FERSM0244**	288.00
GeneRuler 1 kb DNA Ladder, 250 to 10,000 bp				
250 (5 × 50)µg	6X DNA Loading Dye, 2 × 1mL	SM0311	**FERSM0311**	130.20
25 × 50µg	6X DNA Loading Dye, 10 × 1mL	SM0312	**FERSM0312**	500.00
GeneRuler 1 kb DNA Ladder, Ready-to-Use, 250 to 10,000 bp				
500 applic.	6X DNA Loading Dye, 2 × 1mL	SM0313	**FERSM0313**	163.80
100 applic.	6X DNA Loading Dye, 1mL	SM0314	**FERSM0314**	48.00
GeneRuler 100 bp Plus DNA Ladder, 100 to 3000 bp				
50µg	6X DNA Loading Dye, 1mL	SM0321	**FERSM0321**	64.80
250 (5 × 50)µg	6X DNA Loading Dye, 2 × 1mL	SM0322	**FERSM0322**	263.50
GeneRuler 100 bp Plus DNA Ladder, Ready-to-Use, 100 to 3000 bp				
50µg	1mL of 6X DNA Loading Dye	SM0323	**FERSM0323**	77.80
500 applic.	2 × 1mL of 6X DNA Loading Dye	SM0324	**FERSM0324**	310.00
GeneRuler DNA Ladder Mix				
250 (5 × 50)µg	6X DNA Loading Dye, 2 × 1mL	SM0331	**FERSM0331**	125.50
250 (5 × 50)µg	6X DNA Loading Dye, 10 × 1mL	SM0332	**FERSM0332**	501.00
GeneRuler DNA Ladder Mix, Ready-to-Use				
500 applic.	6X DNA Loading Dye, 2 × 1mL	SM0333	**FERSM0333**	167.30
100 applic.	6X DNA Loading Dye, 1mL	SM0334	**FERSM0334**	56.10
O'GeneRuler DNA Ladder, Ready-to-Use, 50 to 1000 bp				
100 applic.	6X Orange DNA Loading Dye, 1.00mL	SM1133	**FERSM1133**	77.00
O'GeneRuler 100 bp Plus DNA Ladder, Ready-to-Use				
100 applic.	6X Orange DNA Loading Dye	SM1143	**FERSM1143**	64.00
100 applic.	6X Orange DNA Loading Dye	SM1153	**FERSM1153**	77.00
O'GeneRuler 1 kb DNA Ladder, Ready-to-Use, 250 to 10,000 bp				
500 applic.	6X Orange DNA Loading Dye, 2 × 1.00mL	SM1163	**FERSM1163**	164.00
O'GeneRuler DNA Ladder Mix, Ready-to-Use, 100 to 10,000 bp				
500 applic.	6X Orange DNA Loading Dye, 2 × 1.00mL	SM1173	**FERSM1173**	165.00
GeneRuler 1 kb Plus DNA Ladder, 75 to 20,000 bp				
250 (5 × 50)µg	6X DNA Loading Dye, 10 × 1mL	SM1332	**FERSM1332**	519.00
GeneRuler 1 kb Plus DNA Ladder, Ready-to-Use, 75 to 20,000 bp				
500 applic.	6X DNA Loading Dye, 2 × 1mL	SM1333	**FERSM1333**	176.20
50µg	6X DNA Loading Dye, 1mL	SM1334	**FERSM1334**	56.30
O'GeneRuler 1 kb Plus DNA Ladder, Ready-to-Use, 75 to 20,000 bp				
500 applic.	6X Orange DNA Loading Dye, 2 x 1.00mL	SM1343	**FERSM1343**	173.00

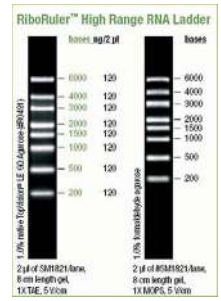
RNA Ladders

Thermo Scientific™ RiboRuler™ High and Low Range RNA Ladders

RNA Ladder is a mixture of eight chromatography-purified, single-stranded RNA transcripts for RNA sizing and quantification on native or denaturing gels

RiboRuler High Range RNA Ladder is available in 1mM EDTA, pH 6.0 and is composed of chromatography-purified transcripts, which makes them free from NTPs and RNA degradation products. The concentration of each RNA transcript is determined spectrophotometrically. To minimize the possibility of contamination during use, the ladder is aliquotted in smaller volumes. RiboRuler High Range RNA Ladder is optimal for end-labeling using T4 Polynucleotide Kinase, see protocol, and is ideal for Northern blots.

- Sharp bands of uniform intensity
- Easy-to-remember band sizes and quantities
- Predetermined concentration of ladder bands allows for approximate RNA quantification
- Supplied with 2X RNA Loading Dye
- Stable for six months at -20°C



RiboRuler High Range RNA Ladder

APPLICATIONS:
RNA sizing and quantification on native or denaturing gels; Northern blotting.

ORDERING INFORMATION:
Orders placed Monday through Wednesday ship next day; Thursday and Friday orders ship the following Monday.

Quantity	Supplied With	Mfr. No.	Cat. No.	Each
RiboRuler High Range RNA Ladder, 200 to 6000 Bases				
100µL	2X RNA Loading Dye, 1.00mL	SM1821	**FERSM1821**	152.50
RiboRuler Low Range RNA Ladder, 100 to 1000 bp				
100µL	2X RNA Loading Dye, 1.00mL	SM1831	**FERSM1831**	133.00
RiboRuler High Range RNA ladder, Ready-to-Use, 200 to 6000 bases				
50 applic.	2X RNA Loading Dye, 1.00mL	SM1823	**FERSM1823**	170.40
RiboRuler Low Range RNA ladder, Ready-to-Use, 100 to 1000 bases				
5 × 40µL	2X RNA Loading Dye, 1.00mL	SM1833	**FERSM1833**	152.70

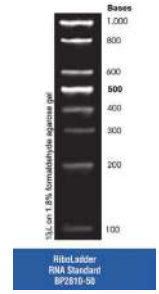
Fisher BioReagents™ RiboLadder™ RNA Standards

For assessment of single-stranded RNA molecules on both native or denaturing agarose and polyacrylamide gels

- Genetically engineered for precise bands
- Well-spaced bands for easy identification and sizing of unknown RNA fragments and higher intensity reference band for fast size comparison
- Packaged in two vials (25 loadings each) and lyophilized to decrease thawing-related degradation — prolongs shelf life and ensures consistent performance
- Purity level suitable for capillary electrophoresis and bioanalyzer applications
- Two size ranges suitable for most RNA applications
- Ideal for ethidium bromide and fluorescent staining

STORAGE: Store at -70°C.

INCLUDES: Two vials of RNA standard (25 dye loads each), 1X Loading Buffer that contains bromophenol blue which serves as a tracking dye, and 2X Sample Loading Buffer for use with RNA samples.



RiboLadder RNA Standard

Description	Base Pair Range	Size	Cat. No.	Each
RiboLadder 100 bp RNA Standard	0.1-1kb	50 loadings (2 vials of 25 each)	**BP281050**	181.15
RiboLadder 1kb RNA Standard	0.2-4kb	50 loadings (2 vials of 25 each)	**BP281150**	199.40
2X Sample Loading Buffer	----	500µL	**BP2812-500**	67.37
1X RiboLadder RNA Standard Loading Buffer	----	500µL	**BP2813-500**	54.40

Protein Standards

Fisher BioReagents™ EZ-Run™ Prestained Protein Marker

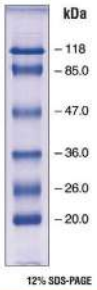
Ideal for monitoring protein separation during electrophoresis without staining and for verifying electroblotting of proteins onto membranes

- Comprised of six purified proteins covalently coupled to a blue chromophore
- Optimized to produce well-defined blue bands after SDS-PAGE
- Supplied in gel loading buffer
- 20 to 118kDa

APPLICATIONS: The Prestained Protein Marker is designed for monitoring protein separation during electrophoresis without staining. It is also used to verify electroblotting of proteins onto membranes.

STORAGE: Store at -20°C.

NOTES: The covalently coupled chromophore affects protein mobility; this prestained marker should only be used for approximating the molecular weight of separated proteins.



BP3601-1

Specifications

Purified proteins contained in Marker

Protein	Source	Molecular Weight (kDa)
ß-galactosidase	E. Coli	118.0
Bovine serum albumin	Bovine plasma	87.0
Ovalbumin	Chicken egg white	49.0
Lactate dehydrogenase	Bovine erythrocytes	35.0
ß-lactoglobulin	Bovine milk	26.0
Lysozyme	Chicken egg white	20.0

Quantity	Cat. No.	Each
500µL (100 loadings)	**BP3601-500**	151.60
1000µL (200 loadings)	**BP3601-1**	210.50

Thermo Scientific™ PageRuler™ Unstained High Range Protein Ladder

Unstained SDS-PAGE MW marker especially for high-range molecular weight proteins

The protein MW markers in this ladder resolve into clearly identifiable sharp bands when analyzed by SDS-PAGE and stained with coomassie dye or silver. The 150kDa band is of greater intensity and serves as a reference band. Proteins can be detected on Western blots by staining with Ponceau S, coomassie blue or other protein stains. In addition, the ladder proteins contain an integral Step-tag™ II Sequence and may be detected on Western blots using Strep-Tactin™ Conjugates. The PageRuler Unstained High Range Protein Ladder is supplied ready-to-use: no heating, dilution or addition of a reducing agent is required before use.

Highlights:

- Size range — 8 proteins spanning 60 to 250kDa
- Ready-to-use — supplied in a loading buffer for direct loading on gels
- Sharp bands — excellent accuracy for detection in with coomassie or silver stains
- Reference band — 150kDa band has greater intensity for easy orientation
- Tagged — each protein in the ladder contains an integral Strep-tag II Sequence
- Quality tested — each lot evaluated by SDS-PAGE and Western blotting

APPLICATIONS:
Accurate protein sizing on SDS-polyacrylamide gels and Western blots

INCLUDES:
Proteins (0.02 to 0.05mg/mL of each) in 62.5mM Tris-H3PO4 (pH 7.5 at 25°C), 1mM EDTA, 2% SDS, 100mM DTT, 1mM NaN3, 0.01% bromophenol blue and 33% glycerol

P126637

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
PageRuler Unstained High Range Protein Ladder	2 × 250µL	50 to 100 mini gel lanes at 5 to 10µL per lane	8 proteins from 60 to 250kDa in reducing sample buffer	**PI26637**	115.26

Thermo Scientific™ PageRuler™ Prestained NIR Protein Ladder

Broad-range molecular weight marker for near-infrared (IR) fluorescence applications

The protein MW markers in this ladder resolve into sharp bands when analyzed by SDS-PAGE and are labeled with a fluorescent dye for visualization with instruments equipped for detection of near-infrared (NIR) fluorescence. The bands are also directly visible because the proteins are prestained blue. The 55kDa band is of greater intensity and serves as a reference band. The protein ladder is conveniently packaged and ready to use: no heating, dilution or addition of a reducing agent is required before use.

Highlights:

- Size range — 10 proteins spanning 11 to 250kDa
- Fluorescent — detect using 670nm red laser or 700nm channels with fluorescence imagers
- Ready-to-use — supplied in a loading buffer for direct loading on gels
- Sharp bands — excellent sizing for near-infrared visualization of protein gels and blots
- Reference band — 55kDa band has greater intensity for easy orientation
- Quality tested — each lot evaluated by SDS-PAGE and Western blotting

APPLICATIONS:
Protein sizing on SDS-polyacrylamide gels and Western blots for visualization with near-infrared (NIR) fluorescence imagers

INCLUDES:
Proteins in 62.5mM Tris-H3PO4 (pH 7.5 at 25°C), 1mM EDTA, 2% SDS, 10mM DTT, 1mM NaN3 and 33% glycerol

REQUIRES:
Fluorescent imager capable of near-infrared fluorescence detection, such as certain Typhoon™ Imagers and the LI-COR Odyssey™ Infrared Imaging System

PI26635

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
PageRuler Prestained NIR Protein Ladder	2 × 250µL	50 to 250 mini gel lanes at 1 to 5µL per lane for infrared imaging detection	10 proteins from 11 to 250kDa in reducing sample buffer	**PI26635**	208.08

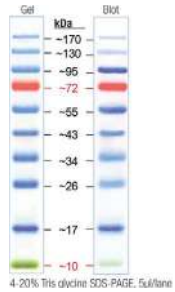
Fisher BioReagents™ EZ-Run™ Prestained Rec Protein Ladder

Comprised of 10 recombinant proteins covalently coupled to a blue chromophore plus 10 and 72kDa reference bands tagged with green and orange dyes, respectively

- Ladder is ideal for monitoring protein separation during SDS-PAGE, verifying Western blot transfer efficiency and approximating the molecular weight of blotted proteins
- Supplied in gel loading buffer

STORAGE:
Store at -20°C.

NOTES:
The covalently coupled chromophore affects protein mobility; this prestained marker should only be used for approximating the molecular weight of separated proteins.



BP3603 Series

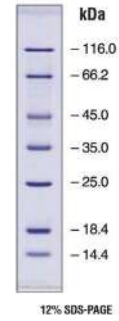
Quantity	Cat. No.	Each
1000µL (200 loadings)	**BP36031**	251.50

Fisher BioReagents™ EZ-Run™ Protein Marker

Mixture of seven purified proteins optimized to produce uniform, compact bands when analyzed by SDS-PAGE and stained with Coomassie™ Blue

- Supplied in gel loading buffer for direct application to SDS-PAGE gels
- Ideal for molecular weight determination of polypeptides analyzed in various gel systems

STORAGE:
Store at -20°C.



BP3600-500

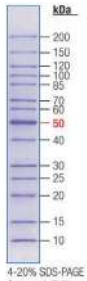
Specifications		
Purified proteins contained in Marker		
Protein	**Source**	**Molecular Weight (kDa)**
ß-galactosidase	E. coli	116.0
Bovine serum albumin	Bovine plasma	66.2
Ovalbumin	Chicken egg white	45.0
Lactate dehydrogenase	Porcine muscle	35.0
Restriction endonuclease Bsp981	E. coli	25.0
ß-lactoglobulin	Bovine milk	18.4
Lysozyme	Chicken egg white	14.4

Quantity	Cat. No.	Each
500µL (100 loadings)	**BP3600-500**	120.80
1000µL (200 loadings)	**BP3600-1**	191.20

Fisher BioReagents™ EZ-Run™ Rec Protein Ladder

Mixture of 14 highly purified recombinant proteins optimized for precise sizing of proteins by SDS-PAGE and Western blotting

- Ladder is ideal for precise molecular weight determination of polypeptides in denaturing PAGE and Western blots
- Each protein contains an integral Strep-tag™ II sequence and may be detected on Western blots using Strep-Tactin™-AP conjugate or an antibody against Strep-tag II
- 50kDa protein band has greater intensity than other bands to serve as a reference
- Supplied in gel loading buffer



4-20% SDS-PAGE Coomassie Brilliant Blue R-250 stained

STORAGE:
Store at -20°C.

BP3602 Series

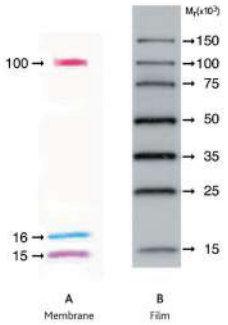
Quantity	Cat. No.	Each
500µL (100 loadings)	**BP3602-500**	169.30
1000µL (200 loadings)	**BP3602-1**	231.00

GE™ Healthcare Amersham™ ECL™ DualVue Western Blotting Markers

Detect proteins on gel and membrane as well as on film

Confirm protein transfer and definite blot orientation and permit calculation of target protein's molecular mass.

- Prestained markers indicate efficiency of protein transfer to membrane and blot orientation
- Tagged recombinant protein markers allow accurate calculation of molecular weight of target proteins
- Compatible with any HRP substrate as well as both PVDF and nitrocellulose membrane types
- Contain a mixture of three prestained colored markers of defined molecular weight (from 15,000 to 100,000) and seven tagged recombinant proteins (molecular weights from 15,000 to 150,000)



ECL DualVue Western Blotting Markers after electrophoresis on a 4-20% SDS-PAGE slab gel and transfer onto Hybond™ ECL nitrocellulose membrane. Prestained indicator proteins are shown as a photograph of the membrane (A), together with tagged recombinant proteins after detection with ECL Western Blotting Detection Reagents as a photograph of the film (B). Electrophoresis performed for 45 min at 200 V, 1 min film exposure.

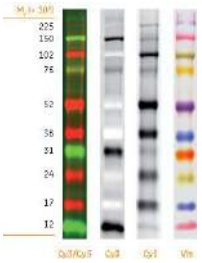
ORDERING INFORMATION:
Each pack contains ECL DualVue markers (125µL) and S-protein-HRP conjugate (50µL) sufficient for 25 standard gel loadings.

Quantity	Mfr. No.	Cat. No.	Each
25 loadings/pack	RPN810	**45-001-182**	153.57

GE™ Healthcare Amersham™ ECL™ Plex Fluorescent Rainbow Markers

Optimized for use with the ECL Plex Western Blotting Detection System

- Monitor progress of protein electrophoresis and assess transfer efficiency and molecular weight of blotted proteins without staining
- Enhanced to enable faster and simpler identification of proteins on SDS-polyacrylamide gels
- Ready-to-load
- Provide sharper, more intense bands on gels and blots and have improved band spacing for more accurate molecular weight determination
- Provides fluorescent images using Cy3 and Cy5 channels



45-001-594

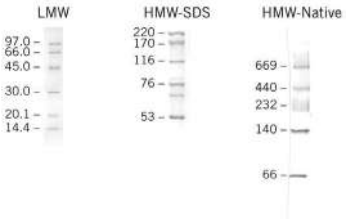
ORDERING INFORMATION:
Each 120µL pack size is sufficient for use with at least 40 minigels (10 × 8cm) or 20 large gels (20 × 20cm). Each 500µL pack size is sufficient for use with at least 160 minigels (10 × 8cm) or 80 large gels (20 × 20cm).

Quantity	Mfr. No.	Cat. No.	Each
120µL	RPN850E	**45-001-594**	48.30
500µL	RPN851E	**45-001-595**	162.75

GE™ Healthcare Protein and Peptide Molecular Weight Markers

Determine molecular weight of uncharacterized protein samples with precision by comparison with carefully selected standards

- Get clear, sharp bands for easy measurement of migration distances
- Bands can be visualized by using Coomassie™ Brilliant Blue or silver staining



45-000-071 LMW: A 3-µl aliquot of a two-fold dilution of LMW Marker Kit was separated on a 15% T, 2.7% C polyacrylamide gel. HMW-SDS: A 10-µl aliquot of a two-fold dilution of HMW-SDS Marker Kit was separated on 7.5% T, 2.7% C polyacrylamide gel. HMW-Native: A 10-µl aliquot of a two-fold dilution of HMW Marker Kit was separated on 5-12.5% polyacrylamide gradient gel. All gels were stained with PhastGel™ Blue R. Numbers represent molecular weights (Mr) in thousands.

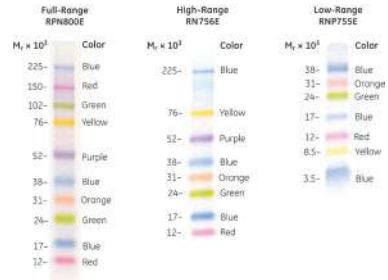
Type	Mfr. No.	Cat. No.	Each
HMW Native Market Kit	17-0445-01	**45-000-071**	231.12
LMW-SDS Marker Kit	17-0446-01	**45-000-072**	231.12

GE™ Healthcare Rainbow™ Molecular Weight Markers

Monitor progress of protein electrophoresis and assess transfer efficiency and molecular weight of blotted proteins without staining

Enhanced to enable faster and simpler identification of proteins on SDS-polyacrylamide gels. The ready-to-load markers provide sharper, more intense bands on gels and blots and have improved band spacing for more accurate molecular weight determination.

- High intensity, prestained multicolored bands allow distinction of closely related proteins
- Full-Range Rainbow Markers (M_r 12,000 to 225,000) use ten separate proteins with six different colors
- High-Range Rainbow Markers (M_r 12,000 to 225,000) use eight separate proteins with six different colors
- Low-Range Rainbow Markers (M_r 3500 to 38,000) use seven separate proteins with five different colors
- For use on SDS-PAGE
- The bright, distinctive colors of the markers allow easier confirmation of transfer to blotting membranes and orientation
- Markers are a mixture of individually colored proteins that are combined to produce bands of equal color intensity. Approximate protein concentration is 1 to 2 mg/mL, depending on the product
- Each 250µL pack size is sufficient for use with 50 minigels (10 × 8cm) or 25 large gels (20 × 20cm)



450-015-91 Rainbow Molecular Weight Markers are available in three size ranges for use with SDS-PAGE

Type	Mfr. No.	Cat. No.	Each
Low Range	RPN755E	**45-001-593**	133.02
High Range	RPN756E	**45-001-592**	138.00
Full Range	RPN800E	**45-001-591**	139.84

Precast Gels

DNA Gels

GE™ Healthcare Amersham™ ECL™ Precast Gels

Save time and obtain high quality results with precast, highly reproducible gels

Homogeneous and gradient gels for horizontal protein electrophoresis.

- Amersham ECL Gels have a shelf life of up to 12 months with no compromise in performance over time
- Gels are available in 15- and 10-well formats as either homogenous (10 and 12%) or gradient (4-12%, 8-16% and 4-20%)
- Compatible with standard Laemmli buffers

ECL Gel (right) shown with ECL Gel Box and ECL Gel Buffer (both available separately)

- Works well with standard protein detection protocols
- Amersham ECL Gel is cast without SDS, allowing the user to define the separation conditions by the composition of the running buffer and sample loading buffer

Specifications	
Shelf Life	12 months from date of manufacture; Refrigerated storage
Gel Dimensions (W × H × Thickness)	80 × 75 × 1.4mm (3.15 × 2.95 × 0.05")
Sample Wells	15 (20µL) or 10 (35µL)
Stacking Gel	4%
Gel Buffer	Tris-HCl
Running Buffer	Native conditions: 25mM Tris, 192 mM glycine, pH 8.3 Denaturing conditions: 25mM Tris, 192 mM glycine, 0.1% SDS, pH 8.3
Sample Buffer	Tris-HCL ± SDS or other buffer suitable for the application

Gel Type	No. of Wells	No. of Gels/Pack	Mfr. No.	Cat. No.	Each
ECL Gel, 10%	10	10	28-9898-04	**45-002-461**	110.19
ECL Gel, 12%	10	10	28-9898-05	**45-002-462**	110.19
ECL Gel, 4-12%	10	10	28-9898-06	**45-002-463**	110.19
ECL Gel, 8-16%	10	10	28-9898-07	**45-002-464**	110.19
ECL Gel, 4-20%	10	10	28-9901-54	**45-002-465**	110.19
ECL Gel, 10%	15	10	28-9901-55	**45-002-466**	110.19
ECL Gel, 12%	15	10	28-9901-56	**45-002-467**	75.57
ECL Gel, 4-12%	15	10	28-9901-57	**45-002-468**	110.19
ECL Gel, 8-16%	15	10	28-9901-58	**45-002-469**	110.19
ECL Gel, 4-20%	15	10	28-9901-59	**45-002-470**	110.19

Lonza Reliant™ Precast Gels

For rapid and reproducible resolution of DNA sizes from 8bp to ≥10kb

- Manufactured with high-quality SeaKem™ Gold and NuSieve™ 3:1 Plus brand agaroses
- Easy to handle
- Fit most common mini submerged electrophoresis systems
- Available with 0.5µg/mL of ethidium bromide for ease of visualizing DNA bands during and after the run

BMA54801

ALERTS:
Ethidium bromide is a powerful mutagen. Gloves should be worn when opening pouches and handling gel solutions containing ethidium bromide.

Specifications	
Gel Dimensions	6.0 × 9.5cm
Gel Thickness	5.5mm
Tray Dimensions	6.8 × 10.2cm
Well Volume	≤15µL
Configuration	8 wells (1 × 8, portrait); 20 wells (1 × 20, landscape); 24 wells (2 × 12, portrait)

Gel	Format	Range	Mfr. No.	Cat. No.	Each
With Ethidium Bromide					
1% SeaKem Gold	8-well	300 bp to ≥8kb	54903	**BMA54903**	186.40
	8-well	400 bp to ≥10kb	54803	**BMA54803**	186.40
	20-well	300 bp to ≥8kb	54907	**BMA54907**	186.40
	24-well	300 bp to ≥8kb	54905	**BMA54905**	186.40
2% SeaKem Gold	20-well	100 bp to ≥2kb	54939	**BMA54939**	186.40
4% NuSieve 3:1 Plus	20-well	8 bp to ≥1kb	54928	**BMA54928**	186.40
	24-well	8 bp to ≥1kb	54929	**BMA54929**	186.40
Without Ethidium Bromide					
1% SeaKem Gold	8-well	400 bp to ≥10kb	54801	**BMA54801**	186.40

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Protein Gels

Thermo Scientific™ Precise™ Tris-HEPES Gels, 10 × 8.5cm

45-minute run time provides quick results

Precise Gels are cast in a durable plastic cassette using a neutral-pH buffer that prevents polyacrylamide breakdown and results in a long shelf life. High-resolution staining and transfer of proteins is accomplished quickly on these 1mm thick mini gels. Gels are individually packaged in an easy-to-open plastic pouch and are ready to run with no comb or tape to remove. Following electrophoresis, the cassettes are easy to dismantle (no special tools required) without damaging the gel. Precise Gels are available in gradient (4 to 20% and 8 to 16%) and fixed (8%, 10% and 12%) concentrations and in 10-well, 12-well and 15-well formats.

Highlights:

- High-performance — unique running buffer produces excellent separation and high-resolution protein bands that stain easily using coomassie and silver stains
- Long shelf life — guaranteed 12-month stability ensures consistent performance for the duration of each package of gels
- Fast — 45-minute run-time provides results quickly; transfers efficiently to nitrocellulose and PVDF membranes in just 90 minutes
- Large-volume wells — innovative well design accommodates twice the sample volume of typical mini-gel cassette wells (10-well = 50µL, 12-well = 30µL; 15-well = 25µL)
- Compatible — cassettes fit many popular mini-gel tanks, and gels can be loaded using standard Laemmli sample loading buffers
- Several convenient styles — choose from five gel densities and three well formats

Additional Features:

- Cassette dimensions: 10cm × 8.5cm × 4.5mm
- Gel dimensions: 8cm × 5.8cm × 1mm
- Storage conditions: 1 year at 4°C
- Stacking gel: 4% polyacrylamide
- Buffer system in gel: Tris-HCl, pH 7
- SDS content: none
- Required running buffer: Tris-HEPES-SDS (Part No. 28398)
- Recommended sample buffer: Tris-HCl-SDS (any type)
- Precise Protein Gels are compatible with the following gel tanks: BioRad™ Mini-PROTEAN™ II and 3; Life Technologies XCell I, II™ and Surelock™; IBI Universal Protein System; EC 4-Cell; Hoefer™ Tall Mighty Small™ (SE 280); Hoefer Mighty Small™ II (SE 260/ SE 250); Hoefer Mini VE System (SE 300); C.B.S. Scientific MGV 302/402; Daiichi Mini 2-Gel and 6-Gel; GradiGel Mini 4-Cell; FisherBiotech™ Vertical Minigel System.

Precise Tris-HEPES Gels, 10 × 8.5cm

Precise Gel Chamber Compatibility Guide

Chamber	Compatible
FisherBiotech Vertical Electrophoresis Systems	✓
Owl Emperor Penguin™ Vertical Electrophoresis System	✓
Bio-Rad Mini-PROTEAN II and 3 Systems	✓
Hoefer Mighty Small Mini-Vertical Units (SE250, SE260, SE280)	✓
IBI Universal Protein System	✓
Life Technologies XCell I and XCell II™ Mini-Cell	✓
XCell SureLock™ Mini-Cell	✓
Owl Road Runner System	✓
Owl Single Sided Vertical System	✓

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Precise Protein Gels, 8%, 10-Well	10 gels	10 samples per gel, 50µL capacity per well	Precast 8% polyacrylamide gels for SDS-PAGE	**PI-25200**	130.56
Precise Protein Gels, 10%, 10-Well	10 gels	10 samples per gel, 50µL capacity per well	Precast 10% polyacrylamide gels for SDS-PAGE	**PI-25201**	130.56
Precise Protein Gels, 12%, 10-Well	10 gels	10 samples per gel, 50µL capacity per well	Precast 12% polyacrylamide gels for SDS-PAGE	**PI-25202**	130.56
Precise Protein Gels, 8-16%, 10-Well	10 gels	10 samples per gel, 50µL capacity per well	Precast 8 to 16% gradient polyacrylamide gels for SDS-PAGE	**PI-25203**	130.56
Precise Protein Gels, 4-20%, 10-Well	10 gels	10 samples per gel, 50µL capacity per well	Precast 4 to 20% gradient polyacrylamide gels for SDS-PAGE	**PI-25204**	130.56
Precise Protein Gels, 8%, 12-Well	10 gels	12 samples per gel, 30µL capacity per well	Precast 8% polyacrylamide gels for SDS-PAGE	**PI-25220**	130.56
Precise Protein Gels, 10%, 12-Well	10 gels	12 samples per gel, 30µL capacity per well	Precast 10% polyacrylamide gels for SDS-PAGE	**PI-25221**	130.56
Precise Protein Gels, 12%, 12-Well	10 gels	12 samples per gel, 30µL capacity per well	Precast 12% polyacrylamide gels for SDS-PAGE	**PI-25222**	130.56
Precise Protein Gels, 8-16%, 12-Well	10 gels	12 samples per gel, 30µL capacity per well	Precast 8 to 16% gradient polyacrylamide gels for SDS-PAGE	**PI-25223**	130.56
Precise Protein Gels, 4-20%, 12-Well	10 gels	12 samples per gel, 30µL capacity per well	Precast 4 to 20% gradient polyacrylamide gels for SDS-PAGE	**PI-25224**	130.56
Precise Protein Gels, 10%, 15-Well	10 gels	15 samples per gel, 25µL capacity per well	Precast 10% polyacrylamide gels for SDS-PAGE	**PI-25241**	130.56
Precise Protein Gels, 12%, 15-Well	10 gels	15 samples per gel, 25µL capacity per well	Precast 12% polyacrylamide gels for SDS-PAGE	**PI-25242**	130.56
Precise Protein Gels, 8-16%, 15-Well	10 gels	15 samples per gel, 25µL capacity per well	Precast 8 to 16% gradient polyacrylamide gels for SDS-PAGE	**PI-25243**	130.56
Precise Protein Gels, 4-20%, 15-Well	10 gels	15 samples per gel, 25µL capacity per well	Precast 4 to 20% gradient polyacrylamide gels for SDS-PAGE	**PI-25244**	130.56

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Precise™ Tris-Glycine Gels, 10 × 10cm Cassettes

Precast Tris-glycine gels with a long shelf-life and short run time

Precise Tris-Glycine Gels are cast in durable 10 x 10cm plastic cassettes to fit in Novex™ XCell™ gel tanks. The gels are individually packaged in easy-to-open plastic pouches and are ready for electrophoresis with no comb or tape to remove. Following electrophoresis, the easy-open cassette design allows gels to be removed damage-free without special tools. Precise Gels in the 10 x 10cm size are available in gradient (4 to 20% and 8 to 16%) and fixed (8%, 10% and 12%) concentrations and in 10-well and 12-well formats.

Precise Tris-Glycine Gels, 8%, 10 × 10cm, 10-well, 10 gels

Highlights:

- High-performance — Tris-glycine running buffer produces excellent separation and high-resolution protein bands
- Long shelf-life — up to 12-month stability ensures consistent performance for the duration of each package of gels
- Fast — 60-minute run-time provides results quickly; transfers efficiently to nitrocellulose and PVDF membranes; stains quickly with coomassie and silver stains
- Compatible — these 10 × 10cm cassettes fit the Novex™ XCell and other similar tanks
- Easy to load — sample wells reinforced with plastic to eliminate damage when loading and well-to-well contamination

Specifications:

- Cassette Dimensions: 10cm × 10cm × 7mm
- Gel Dimensions: 8cm × 8.8cm × 1mm
- Storage Conditions: 4°C
- Shelf Life: 12 months from date of purchase
- Stacking Gel: 4%
- Buffer System in Gel: Tris-HCl, pH 7
- SDS: None
- Required Running Buffer: Tris-glycine-SDS
- Recommended Sample Buffer: Tris-HCl-SDS or LDS-SDS
- Gel Tank Compatibility (10cm × 10cm × 7mm): Novex XCell I and II; Novex XCell II™ SureLock™; IBI Scientific Universal Protein Systems; For gels that are compatible with other tanks, see our 10 × 8cm gels

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Price
Precise Tris-Glycine Gels, 8%, 10 × 10cm, 10-well, Thermo Scientific	10 gels	10 samples per gel, 50µL capacity per well	Precast 8% polyacrylamide gels for SDS-PAGE	**PI25245**	130.56
Precise Tris-Glycine Gels, 10%, 10 × 10cm, 10-well, Thermo Scientific	10 gels	10 samples per gel, 50µL capacity per well	Precast 10% polyacrylamide gels for SDS-PAGE	**PI25246**	130.56
Precise Tris-Glycine Gels, 12%, 10 × 10cm, 10-well, Thermo Scientific	10 gels	10 samples per gel, 50µL capacity per well	Precast 12% polyacrylamide gels for SDS-PAGE	**PI25247**	130.56
Precise Tris-Glycine Gels, 8-16%, 10 × 10cm, 10-well, Thermo Scientific	10 gels	10 samples per gel, 50µL capacity per well	Precast 8-16% gradient polyacrylamide gels for SDS-PAGE	**PI25248**	130.56
Precise Tris-Glycine Gels, 4-20%, 10 × 10cm, 10-well, Thermo Scientific	10 gels	10 samples per gel, 50µL capacity per well	Precast 4-20% gradient polyacrylamide gels for SDS-PAGE	**PI25249**	130.56

Thermo Scientific™ Precise™ Tris-Glycine Gels, 10 × 8cm Cassettes

Precast Tris-glycine gels with a long shelf-life and short run time

Precise Tris-Glycine Gels are cast in durable 10 × 8cm plastic cassettes to fit in Mini-PROTEAN™ gel tanks. The gels are individually packaged in easy-to-open plastic pouches and are ready for electrophoresis with no comb or tape to remove. Following electrophoresis, the easy-open cassette design allows gels to be removed damage-free without special tools. Precise Gels in the 10 × 8cm size are available in gradient (4 to 20% and 8 to 16%) and fixed (8%, 10% and 12%) concentrations and in 10-well, 12-well and 15-well formats.

Highlights:

- High-performance —Tris-glycine running buffer produces excellent separation and high-resolution protein bands
- Long shelf-life — up to 12-month stability ensures consistent performance for the duration of each package of gels
- Fast — 45-minute run-time provides results quickly; transfers efficiently to nitrocellulose and PVDF membranes; stains quickly with coomassie and silver stains
- Compatible — these 10 × 8cm cassettes fit Bio-Rad™ Mini-PROTEAN and Hoefer™ Mighty Small II gel tanks, as well as other similar tanks
- Easy to load — sample wells reinforced with plastic to eliminate damage when loading and well-to-well contamination

Specifications:

- Cassette Dimensions: 10cm × 8.0cm × 5mm
- Gel Dimensions: 8cm × 6.8cm × 1mm
- Storage Conditions: 4°C
- Shelf Life: 12 months from date of purchase
- Stacking Gel: 4%
- Buffer System in Gel: Tris-HCl, pH 7
- SDS: None
- Required Running Buffer: Tris-glycine-SDS
- Recommended Sample Buffer: Tris-HCl-SDS or LDS-SDS
- Gel Tank Compatibility (10cm × 8cm × 5mm): Bio-Rad Mini-PROTEAN II and 3; Bio-Rad Mini-PROTEAN Tetra Cell; Hoefer Tall Mighty Small (SE 280); Hoefer Mighty Small II (SE 260); IBI Scientific Universal Protein Systems; For gels that are compatible with other tanks, see our 10 × 10cm Gels

Precise Tris-Glycine Gels, 8%, 10 × 8cm, 10-well, 10 gels

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Precise Tris-Glycine Gels, 8%, 10 × 8cm, 12-well, Thermo Scientific	10 gels	12 samples per gel, 30µL capacity per well	Precast 8% polyacrylamide gels for SDS-PAGE	**PI25265**	130.56
Precise Tris-Glycine Gels, 10%, 10 × 8cm, 12-well, Thermo Scientific	10 gels	12 samples per gel, 30µL capacity per well	Precast 10% polyacrylamide gels for SDS-PAGE	**PI25266**	130.56
Precise Tris-Glycine Gels, 12%, 10 × 8cm, 12-well, Thermo Scientific	10 gels	12 samples per gel, 30µL capacity per well	Precast 12% polyacrylamide gels for SDS-PAGE	**PI25267**	130.56
Precise Tris-Glycine Gels, 8-16%, 10 × 8cm, 12-well , Thermo Scientific	10 gels	12 samples per gel, 30µL capacity per well	Precast 8-16% gradient polyacrylamide gels for SDS-PAGE	**PI25268**	130.56
Precise Tris-Glycine Gels, 4-20%, 10 × 8cm, 12-well , Thermo Scientific	10 gels	12 samples per gel, 30µL capacity per well	Precast 4-20% gradient polyacrylamide gels for SDS-PAGE	**PI25269**	130.56

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Membranes

GE™ Healthcare Amersham™ Hybond™-P Membranes

Hydrophobic PVDF membrane optimized for use in protein transfers and Western blotting applications

45-000-841

- Higher mechanical strength than unsupported nitrocellulose allows for stripping and reprobing
- Chemically stable, allowing the use of a range of solvents for rapid destaining
- Protein binding capacity >125µg/cm²
- Pore size 0.45µm
- 8 × 7.5cm membrane matches Amersham ECL™ precast gels and can be used with the Amersham ECL Gel horizontal electrophoresis system

Dimensions	Quantity	Mfr. No.	Cat. No.	Each
Sheets				
8 × 7.5cm	10 Sheets	28-9909-83	**45-002-483**	260.40
14 × 16cm	15 Sheets	RPN1416F	**45-001-225**	260.40
20 × 20cm	10 Sheets	RPN2020F	**45-000-841**	268.80
Rolls				
30cm × 3m	1 Roll	RPN303F	**45-000-931**	371.70

GE™ Healthcare Amersham™ Hybond™ ECL Membranes

Unsupported 100% pure nitrocellulose membrane validated for use with all ECL Western and protein blotting applications

45-002-485

- Excellent sensitivity, resolution and low background for all labeling and detection systems: radioactive, nonradioactive and chromogenic
- Packaging features include interleaf on both sides of the membrane and airtight resealable bag with marking spot
- Pore size: 0.2µm and 0.45µm
- Discs are also available

Dimensions	Pore Size	Quantity	Mfr. No.	Cat. No.	Each
8 × 7.5cm	0.45µm	50 Sheets	RPN7.58D	**45-002-485**	232.05

Additional sizes available. See www.fishersci.com for complete menu.

GE™ Healthcare Amersham™ Hybond™-LFP Membranes

Hydrophobic PVDF membrane with 0.2µm pore size for fluorescent Western blotting applications

Fluorescent detection in Western blotting offers long-lasting signal and accurate quantitation of band intensities, resulting in a broader dynamic range than film.

- Much lower background fluorescence than other PVDF membranes, resulting in higher sensitivity
- Compatible with a variety of blocking agents, transfer buffers and total protein blot stains
- Suitable for protein transfer
- Typical protein binding capacity is >400µg/cm²
- 8 × 7.5cm membrane matches Amersham ECL™ precast gels and can be used with the Amersham ECL Gel horizontal electrophoresis system

45-000-300 series

Dimensions	Quantity	Mfr. No.	Cat. No.	Each
8 × 7.5cm	10 Sheets	28-9909-84	**45-002-484**	107.01

Electroporators

BTX™ Gemini X² Electroporation System

Designed for researchers who need ultimate experiment flexibility

In one easy setup, square wave and exponential decay waves can be applied to cells in any format. Electroporation of suspension cells can be achieved in cuvettes and 96-well plates. The system can be paired with BTX specialty electrodes to deliver genes and drugs in vivo, in utero, in ovo, to ex plant tissues as well as adherent cells. It incorporates remote operation functionality via footswitch or PC and internal log storage of experiment data for easy optimization, quality control requirements and troubleshooting.

BTX452007

- Square waveform
- Multi-pulsing square wave
- Exponential decay waveform
- Multi-pulsing exponential decay
- Resistance/pulse monitoring
- Experiment log storage
- Preprogrammed protocols
- Unlimited custom protocol storage
- Remote operation
- PC communications

Electroporation Cuvettes

- 1 mm, 2 mm and 4 mm gap sizes
- Gamma irradiated for sterility
- Round cap for easy one-hand removal
- Comes with transfer pipette
- Medical polycarbonate
- Smooth-polished electrodes
- Color-coded for easy identification
- Works with most electroporators

452007 System Includes:
Gemini SC² Generator; Cuvettes – 610, 620, 640, pack of 30 (10 each); Safety Dome 2; 660 Cuvette Rack

452008 System Includes:
Gemini SC² Generator; Cuvettes – 610, 620, 640, pack of 30 (10 each); Safety Dome 2, HT 200 Plate Handler, 1 x 2mm gap HT Plate; 1 x 4 mm HT Plate and 660 Cuvette Rack

Specifications	
User Interference	Touch Screen
Voltage Range	5-3000V
Pulse Width Range	10µs-1s
Pulse Interval	100ms-30s
Data Export	USB/PC Communication
Dimensions (L x W x H)	12.5 × 11 × 8"
Weight	15 lb
Operating Temperature	10° to 40° C
Voltage Range	100 to 250 VAC

Description	Mfr. No.	Cat. No.	Each
452007 BTX Gemini X² Electroporation System	452007	**BTX452007**	12,250.00
452008 BTX Gemini X² HT Electroporation System	452008	**BTX452008**	17,500.00

BTX™ Gemini SC² Electroporation System

Designed for researchers who need ultimate experiment flexibility

The Gemini SC² system is essential for researchers electroporating cells in suspension. In one simple setup, square wave and exponential decay waves can be applied to cells in cuvettes. With a wider range of pulsing parameters, advanced safety features as well as dozens of pre-set protocols, the Gemini SC² can be used in any lab requiring efficient cell transfection or transformation without the use of costly reagents.

Electroporation Cuvettes

- 1 mm, 2 mm and 4 mm gap sizes
- Gamma irradiated for sterility
- Round cap for easy one-hand removal
- Comes with transfer pipette
- Medical polycarbonate
- Smooth-polished electrodes
- Color-coded for easy identification
- Works with most electroporators

INCLUDES:
Gemini SC² Generator; cuvettes – 610, 620, 640, pack of 30 (10 each); Safety Dome 1; 660 Cuvette Rack

Specifications	
User Interference	Touch Screen
Voltage Range	10 - 3000V
Pulse Width Range	50µs–10ms
Pulse Interval	100ms–30s (SW only)
Data Export	None
Dimensions (L x W x H)	12.5 × 11 × 8"
Weight	15 lb
Operating Temperature	10°–40° C
Mains Voltage	100–250 VAC

Description	Mfr. No.	Cat. No.	Each
BTX Gemini SC² Electroporation System	452002	**BTX452002**	9750.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Electroporation Accessories

ACCESSORIES

Fisherbrand® Electroporation Cuvettes Plus™

Disposable, color-coded cuvets fit most electroporators

- Clear, medical grade polycarbonate for high visibility
- Polished aluminum lowers arcing frequency
- Round cap allows single-handed removal
- Sterilized by gamma irradiation and supplied individually wrapped
- FB102 has imbedded aluminum electrodes

FB101, FB102 and FB104

Description	Cap Color	Cat. No.	Pack of 50
1mm gap, 90µL	Purple	**FB101**	202.00
2mm gap, 400µL	Blue	**FB102**	202.00
4mm gap, 800µL	Yellow	**FB104**	200.00

Eppendorf™ Electroporation Cuvets

Frosted window for labeling

E4307 series

- Plastic cuvet with aluminum electrodes
- Three sizes with 100, 400 and 800µL filling capacity (1, 2 and 4mm gap width)
- Individually wrapped and gamma-irradiated to ensure sterility
- Design ensures correct positioning in the cuvet holder
- Cap width marked on the side of every cuvet to simplify identification

ORDERING INFORMATION: Individually packaged.

Size	Gap Width	Mfr. No.	Cat. No.	Pack of 50
100µL	1mm	940001005	**E4307 000 569**	222.38
400µL	2mm	940001012	**E4307 000 593**	222.38
800µL	4mm	940001021	**E4307 000 623**	222.38

BTX™ Harvard Electroporation Chambers Cuvettes Plus™

Field strengths up to 25kV/cm are possible when these cuvets are used with BTX generators

BTX600 Series

- With imbedded aluminum electrodes and round, color-coded caps
- Gamma irradiated for sterility

ORDERING INFORMATION: Each package of 50 individually wrapped cuvets includes a sterile transfer pipet for removing the sample after electroporation.

Description	Mfr. No.	Cat. No.	Pack of 50
1mm gap, 90µL	610	**BTX610**	213.75
2mm gap, 400µL	620	**BTX620**	213.75
4mm gap, 800µL	640	**BTX640**	213.75

Electroporation Kits and Solutions

Mirus™ Ingenio™ Electroporation Kits

High efficiency electroporation using any instrument

- High efficiency electroporation of hard-to-transfect cell lines and primary cells
- Compatible with most conventional electroporation devices including Lonza-Amaxa™, Bio-Rad™ or BTX™ Harvard
- Ideal for plasmid or siRNA electroporation
- Broad spectrum solution supports high efficiency electroporation of hard-to-transfect cells with minimal toxicity
- Compatible with all electroporation devices: use with your existing system; no need to purchase additional specialized equipment
- Replaces standard electroporation solutions including phosphate buffered saline and serum-free media
- High cell viability — minimize the risk of introducing experimental bias due to toxicity-induced cellular changes

STORAGE: Store Ingenio Electroporation Solution for up to one year at 4°C. All other materials can be stored at room temperature.

Gap	No. of Tests	Mfr.No.	Cat. No.	Each
For Amaxa Nucleofector				
	25 reactions	MIR 50112	**MIR50112**	259.50
0.2cm	50 reactions	MIR 50115	**MIR50115**	453.00
	100 reactions	MIR 50118	**MIR50118**	823.00
For other electroporators (Bio-Rad, BTX Harvard)				
	25 reactions	MIR 50113	**MIR50113**	259.50
0.4cm	50 reactions	MIR 50116	**MIR50116**	453.00
	100 reactions	MIR 50119	**MIR50119**	815.00

Mirus™ Ingenio™ Electroporation Solution

Proprietary electroporation solution facilitates efficient and reliable delivery of nucleic acids to eukaryotic cells resistant to chemical transfection

- Broad spectrum solution supports high efficiency electroporation of hard-to-transfect cells with minimal toxicity
- Compatible with all electroporation devices: use with your existing system; no need to purchase additional specialized equipment
- Replaces standard electroporation solutions including phosphate buffered saline and serum-free media
- High cell viability — minimize the risk of introducing experimental bias due to toxicity-induced cellular changes

STORAGE: Electroporation Solution has a shelf life of six months from the date of purchase when stored at 4°C.

No. of Tests	Mfr. No.	Cat. No.	Each
25 reactions	MIR 501111	**MIR50111**	163.30
50 reactions	MIR 501114	**MIR50114**	261.00
100 reactions	MIR 501117	**MIR50117**	450.50

Heidolph North America
Research made easy

Before You Buy **Benchtop Rotary Evaporators**

Steps to ordering the right system for your application:

- What volume size solvents are you working with?
- Do you need coated or noncoated glassware?
- Are you placing the evaporator in a Fume Hood?
- Do you have a water source nearby footprint for cooling? Or do you want to use dry ice?
- Do you have vacuum source nearby footprint?
- Do you need to control your vacuum?
- What level of control would you like on your Rotary Evaporator?
- Do you have the necessary accessories? Tube set, guard hood, coolant, etc.

Rotary Evaporators are used for:

- Distillation or evaporation of solvents
- Purification of chemicals, substances, mixtures and preparations
- Processing reaction batches
- Drying of powder

Superior ease of use, low overall cost of ownership and premium safety features should all be considered when choosing the right rotary evaporator for your lab.

Unique Features that are standard no matter which of our rotary evaporators you choose:

- Same robust platform no matter which series ordered
- Only Hei-VAP heating baths reach an industry leading temperature of 210°C
- Patented nonstick vapor tube clamping sleeve that alleviates the norm of glass on metal drive in the vapor tube location
- Tethered operating panel that can be controlled at a safe distance or outside a fume hood
- Only bath that accommodates up to a 5L evaporating flask
- Safety bath will power off if temperature overshoots by 5°C or runs dry
- 3 year warranty you can depend on
- Pre and Post support from Heidolph specialists

HEI-VAP VALUE	HEI-VAP VALUE DIGITAL	HEI-VAP ADVANTAGE	HEI-VAP PRECISION	HEI-VAP PRECISION
Hand Lift	***Hand Lift***	***Hand Lift***	***Hand Lift***	***Motor Lift***
Analog dials for: adjust rotation speed and heating bath temp	Digital display for: set and actual heating bath temp (analog knob for rotation)	Digital display for: timer, vapor temp, rotation and bath temp	Digital display for: vacuum control, heating bath temp, timer, rotation and vapor (store Favorites)	Digital display for: vacuum control, heating bath temp, timer, rotation and vapor (store Favorites)
Glassware G1B (coated) diagonal condenser				
36000090 **13-876-306**	036000033 **05-404-501**	036000250 **13-878-412**	036001050 **13-878-492**	036001250 **13-878-512**
Glassware G3B (coated) vertical condenser				
036000110 **13-876-308**	036000053 **05-404-503**	036000270 **13-878-414**	036001070 **13-878-494**	036001270 **13-878-514**
Glassware G5B (coated) dry ice condenser				
036000130 **13-876-310**	036000073 **05-404-503**	036000310 **13-878-418**	036001110 **13-878-498**	036001310 **13-878-518**

**Noncoated glassware configurations available for any system*

Evaporators

Rotary

Heidolph™ Hei-VAP™ Rotary Evaporators — Value "The Collegiate"

Affordable model with hand lift for all standard applications

All Benchtop Models Feature:

- Heating bath reaches a temperature of 210°C
- Rotation speed of 20 to 280 rpm
- Universal heating bath can accommodate 5L flask
- Heating bath can be adjusted horizontally up to 200mm
- 2012 proprietary nonstick vapor tube clamping sleeve
- Convenient large dial controls for adjustment of rotation speed and bath temperature
- No digital display
- Adjustable angle of evaporating flask, individually set according to your needs
- Limit the evaporating flask height in just seconds
- Evaporating flask clamp cannot be lost due to a connection to the vapor tube coupling ring
- Detachable operating panel located below the bath for safety

Glassware:

- Available in standard or with a transparent plastic coating (Surlyn-Coated) for added safety, G5 glassware is available standard and Halar-coated

Condenser:

- G1 Diagonal Condenser for all standard distillations
- G3 Vertical Condenser for all standard distillations, for small space requirement
- G5 Dry Ice Condenser for low-boiling solvents
- G6 Vertical Condenser; centerpiece with valve for reflux distillation

ORDERING INFORMATION:
Optional manual vacuum controller recommended.

13-876-308

Model	Coating	Mfr. No.	Cat. No.	Each
Glassware: G1 Diagonal Condenser				
Hei-VAP Value	Standard	036000030	**13-876-300**	5080.00
Hei-VAP Value	Surlyn-Coated	036000090	**13-876-306**	5225.49
Hei-VAP Value	Standard	036000032	**05-404-500**	5457.95
Hei-VAP Value	Surlyn-Coated	036000033	**05-404-501**	5694.50
Glassware: G3 Vertical Condenser				
Hei-VAP Value	Standard	036000050	**13-876-302**	5330.00
Hei-VAP Value	Surlyn-Coated	036000110	**13-876-308**	5880.00
Hei-VAP Value	Digital Standard	036000052	**05-404-502**	5906.49
Hei-VAP Value	Digital Surlyn-Coated	036000053	**05-404-503**	6038.74
Glassware: G5 Dry Ice Condenser				
Hei-VAP Value	Standard	036000070	**13-876-304**	5740.00
Hei-VAP Value	Halar-Coated	036000130	**13-876-310**	5994.30
Hei-VAP Value	Digital Standard	036000072	**05-404-504**	6320.46
Hei-VAP Value	Digital Halar-Coated	036000073	**05-404-505**	6580.17
Glassware: G6 Vertical for Reflux				
Hei-VAP Value	Standard	036011855	**13-878-531**	5275.58
Hei-VAP Value	Surlyn-Coated	036011865	**13-878-532**	5400.33
Hei-VAP Value	Digital Standard	036000142	**05-404-506**	7801.58

Heidolph™ Hei-VAP™ Rotary Evaporators — Advantage

Available in hand lift or motor lift configurations for routine distillation applications and reproducible results

All Benchtop Models Feature:

- Heating bath reaches a temperature of 210°C
- Rotation Speed of 20 to 280rpm
- Universal heating bath can accommodate 5L flask
- Heating bath can be adjusted horizontally up to 200mm
- 2012 proprietary nonstick vapor tube clamping sleeve
- Large digital 3.5" LCD display which indicates rotation speed, heating bath and vapor temperature
- Automatic process timer which turns off your evaporator at a pre-programmed time and removes the evaporation flasks from the bath on motor lifts models
- Optional motor lift adjusts height by the press of a button
- Optional manual vacuum controller is recommended
- Upgrade your Advantage model to a Precisions at any time with option Upgrade-KIT (available for both Hand Lift and Motor Lift)

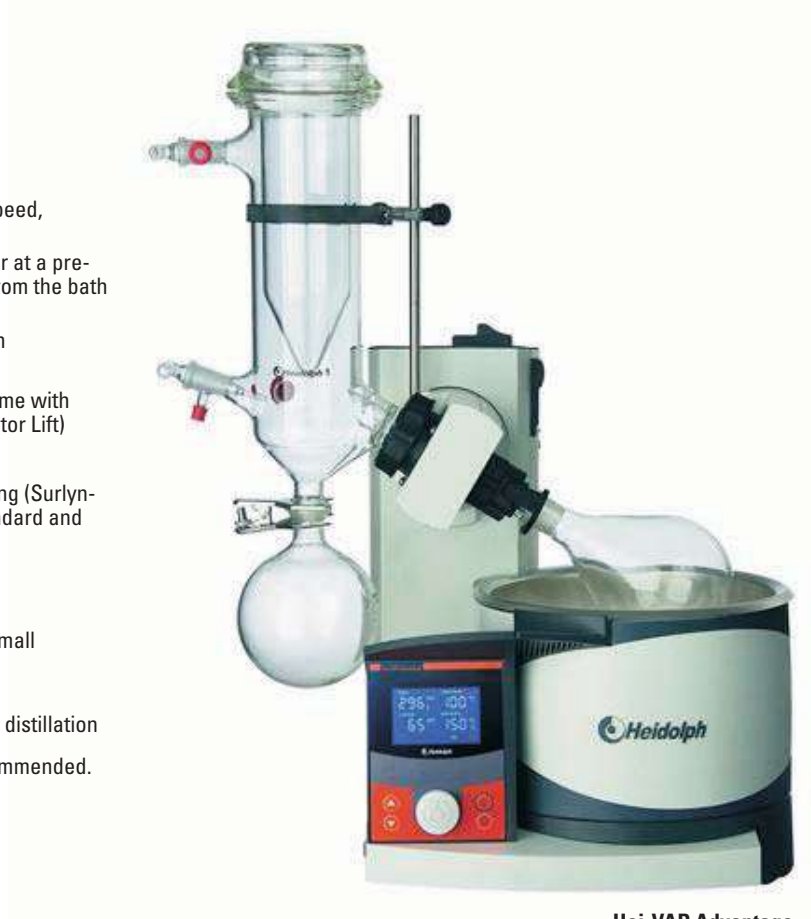
Glassware:

- Available in standard or with a transparent plastic coating (Surlyn-Coated) for added safety; G5 glassware is available standard and Halar-coated

Condenser:

- G1 Diagonal Condenser for all standard distillations
- G3 Vertical Condenser for all standard distillations, for small space requirements
- G5 Dry Ice Condenser for low-boiling solvents
- G6 Vertical Condenser; centerpiece with valve for reflux distillation

ORDERING INFORMATION: Manual vacuum controller recommended.



Hei-VAP Advantage

Configuration	Coating	Mfr. No.	Cat. No.	Each
Glassware: G1 Diagonal Condenser				
Hand Lift	Standard	036000150	**13-878-402**	5796.70
Hand Lift	Coated	036000250	**13-878-412**	6118.00
Motor Lift	Standard	036000350	**13-878-422**	6186.80
Motor Lift	Coated	036000450	**13-878-432**	6401.26
Glassware: G3 Vertical Condenser				
Hand Lift	Coated	036000270	**13 878 414**	6562.42
Motor Lift	Coated	036000470	**13-878-434**	6776.87
Glassware: G5 Dry Ice Condenser				
Hand Lift	Standard	036000210	**13-878-408**	6790.00
Hand Lift	Coated	036000310	**13-878-418**	6924.32
Motor Lift	Coated	036000510	**13-878-438**	7117.57
Glassware: G6 Vertical Condenser for Reflux				
Motor Lift	Coated	036000530	**13-876-202**	7445.37

LOOKING FOR THE COMPLETE PACKAGE

Heidolph North America offers a wide range of packages for the Value Collegiate, Advantage, and Precision models that include the evaporator, vacuum pump, chiller, and tube sets. For details...

Visit www.fishersci.com and search for Heidolph Rotary Evaporators

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Heidolph™ Hei-VAP™ Rotary Evaporators — Precision

Available in hand lift or motor lift configurations for the most demanding applications and the finest integrated vacuum control capabilities

All Benchtop Models Feature:

- Heating bath reaches a temperature of 210°C
- Rotation speed of 20 to 280rpm
- Universal heating bath can accommodate 5L flask
- Heating bath can be adjusted horizontally up to 200mm
- 2012 proprietary nonstick vapor tube clamping sleeve
- Large 4.3" (10.9cm) color graphic display which features all parameters and integrated vacuum controller and includes programs for automated distillations
- Integrated software support for all capabilities of the evaporator
- USB interface for data management
- All connected devices will be recognized by the evaporator; eliminates the need to configure the unit manually
- Individualized pre-programmed parameter settings for the 30 most common applications
- Each ramp offers 20 separate steps for demanding applications
- Automatic process timer which turns off the evaporator at a pre-programmed time by raising the flask on motor lift models and releasing vacuum
- Control each process individually by pre-programming vacuum gradients
- Built-in vacuum controller

13-878-514

Glassware:

- Available in standard or with a transparent plastic coating (Surlyn-Coated) for added safety; G5 glassware is available standard and Halar-coated

Condenser:

- G1 Diagonal Condenser for all standard distillations
- G3 Vertical Condenser for all standard distillations, for small space requirements
- G5 Dry Ice Condenser for low-boiling solvents
- G6 Vertical Condenser; centerpiece with valve for reflux distillation

Configuration	Coating	Mfr. No.	Cat. No.	Each
Glassware: G1 Diagonal Condenser				
Hand lift	Standard	036000950	**13-878-482**	8460.66
Hand lift	Surlyn-Coated	036001050	**13-879-602**	8658.94
Motor lift	Surlyn-Coated	036001250	**13-878-530**	8706.68
Glassware: G3 Vertical Condenser				
Hand lift	Standard	036000970	**13-879-604**	8862.76
Hand lift	Surlyn-Coated	036001070	**13-876-150**	9038.37
Motor Lift	Standard	036001170	**13-879-601**	9109.85
Motor Lift	Surlyn-Coated	036001270	**13-878-514**	9497.38
Glassware: G5 Dry Ice Condenser				
Hand Lift	Standard	036001010	**13-878-488**	9608.00
Hand lift	Halar-Coated	036001110	**13-878-498**	10,106.34
Motor lift	Halar-Coated	036001310	**13-879-518**	10,314.64
Glassware: G6 Vertical Condenser with Reflux				
Hand Lift	Surlyn-Coated	036001030	**13-879-603**	9811.43
Hand Lift	Surlyn-Coated	036001130	**13-876-151**	10,388.95
Motor Lift	Standard	036001230	**13-879-600**	10,435.46
Motor Lift	Surlyn-Coated	036001330	**13-876-152**	10,550.11

Heidolph™ Hei-VAP™ Distimatic Large-Scale Evaporator

Saves time by distilling large volumes continuously and without attention at night and during the weekend

- Allows automatic refill of the evaporation flask with the solvent mixture as set according to user settings
- Provides continuous automatic release of condensate
- Unique automatic residue drainage
- Valve matrix controls the continuous drainage of the condensate from the system into a temporary storage flask
- Collected condensate is released into the collecting tank by a diaphragm pump
- Storage and the collecting tank can be replaced during the process

Solvent Supply

- Sensor measures filling level in the evaporating flask (can be set individually) and stops the distillation process as soon as the liquid is completely evaporated
- Valve-controlled recharge of the product under vacuum
- Filling level of storage tank measured by sensor and stops process once liquid is completely evaporated

Release of Residue

- Automatic release of residue in the evaporating flask is released into a collecting tank (afterward the process starts again automatically by refilling the evaporating flask)

Distillation Process

- Process can be terminated automatically after evaporation is completed or manually at any time by the operator

Rate of Evaporation (Delta T 400C)

- L/h Water: 1.2
- L/h Ethanol: 3.5
- L/h Acetone: 4.4
- L/h Toluene: 6.3

13-889-370

ORDERING INFORMATION: Compatible with all Hei-VAP and Laborota 4000 models and also with other comparable benchtop evaporators (sold separately).

INCLUDES: Tubing and G9 glassware set

Description	Mfr. No.	Cat. No.	Each
Distimatic including automatic release of residue	036294600	**13-889-370**	29,662.67

Thermo Scientific™ Savant™ ISS110 SpeedVac™ Kit

Ideal choice for nucleic acid applications

The Savant ISS110 is a medium-capacity DNA SpeedVac designed for efficient processing of large batches of DNA/RNA samples.

- Built-in ETFE-coated vacuum pump provides years of lasting service
- 4 liters, -50°C refrigerated vapor trap integrated
- Choice of three drying rates

Solvents and Solvent Combinations

- PCR buffers (aqueous)
- Ethanol and water
- Isopropanol

APPLICATIONS:

- DNA/RNA preparation prior to analysis by electrophoresis or microarrays
- Labeling cDNA with fluorescent dyes
- Drying PCR samples in aqueous buffers

INCLUDES:

- Basic integrated concentrator
- 64 × 1.5mL rotor
- CryoCool Heat Transfer Fluid (1L)

11-716-800

Description	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
Basic Integrated SpeedVac System	26 × 25 × 16" (660 × 620 × 380mm)	115V/50Hz	152 lb. (69kg)	ISS110P1-115	**11-716-800**	8990.00

Thermo Scientific™ Savant™ SC250EXP SpeedVac™ Kits

Large-capacity SpeedVac kits — everything you need to effectively concentrate high boiling point solvents

Dual vacuum control on our SC250EXP provides flexibility to use many sample types.

- Four IR heat lamps for drying high boiling point solvents such as DMSO and DMF
- Dual vacuum control of RAMP and LEVEL eliminates samples from bumping and/or freezing, providing optimization for various sample types
- Kalrez™ and PTFE-coated materials along the entire vapor path for maximum chemical resistance and durability
- Dual valve mechanism for improved durability and exhausting
- Come complete with enlarged vacuum port, extra wide tubing and new extra large mouth glass condensation flask
- Heated glass lid reduces drying times and prevents condensation

Thermo Scientific Savant SC250EXP SpeedVac Kit

- Digital display of parameters (time, temperature and vacuum)
- Standard glass safety lids

Description	Includes	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
SC250EXP Concentrator Kit	SC250EXP Concentrator Model FPR4A Rotor UPC1 Single Shelf Microplate Carriers (2) Glass condensation flasks (1) FC400 flask cap	25 × 18 × 18" (620 × 450 × 460mm)	115V/60Hz	127 lb. (58kg)	SC250EXPA-115	**11-716-811**	27,100.00
SC250EXP Concentrator Kit, Ultra-low Temperature	SC250EXP Concentrator -104°C Ultra-Low Temperature Refrigerated Vapor Trap Vacuum Pump Model FPR4A Rotor Set of Four UPC1 Single Shelf Microplate Carriers Glass Condensation Flask Tubing Kit Vacuum Pump Lubricating Oil CryoCool Heat Transfer Fluid (1L)	25 × 18 × 18" (620 × 450 × 460mm)	115V/60Hz	127 lb. (58kg)	SC250P1-115	**11-716-801**	34,000.00
SC250 EXP Concentrator Kit, Refrigerated Vapor Trap	SC250EXP Concentrator -5°C Refrigerated Vapor Trap Vacuum Pump Model FPR4A Rotor Set of Four UPC1 Single Shelf Microplate Carriers Glass Condensation Flask Tubing Kit Vacuum Pump Lubricating Oil CryoCool Heat Transfer Fluid (1L)	25 × 18 × 18" (620 × 450 × 460mm)	115V/60Hz	127 lb. (58kg)	SC250P2-115	**11-716-802**	32,450.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Savant™ SPD1010 and SPD2010 SpeedVac™ Kits

For HPLC fractions with water/0.1% trifluoroacetic acid and reversed-phase SPE eluants applications

All of our SpeedVac kits are complete systems, containing everything you need under one model number. Our Savant SPD1010 and SPD2010 models fully incorporate four individual components: concentrator bowl, refrigerated trap, vacuum gauge and a diaphragm pump.

- Easily programmable
- Integrated design for plug-in simplicity and control
- Digital display for viewing and setting parameters (time, temperature vacuum)
- Vacuum control for vacuum ramping and ultimate level settinig to optimize drying times and eliminate bumping of different solvent mixtures
- All-in-one design makes setup and installation easy
- Dual timers for independent control of heater and run time
- Oil-free vacuum source eliminates the need to add/change oil
- Standard PTFE-coated chamber
- Radiant cover for chemical resistance and added heat source (enhanced drying times)
- Standard glass safety lid

Thermo Scientific Savant SpeedVac Kits

Description	Includes	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
SPD1010A concentrator	SPD1010A concentrator with integrated pump and cold trap GCF400 glass condensation flask	35 × 32 × 40" (813 × 889 × 1016mm)	115V/60Hz	190 lb. (86kg)	SPD1010A-115	**11-716-812**	12,700.00
Integrated SpeedVac System	Integrated SpeedVac System with oil-free vacuum pump and -50°C cold trap 40 × 1.5mL rotor CryoCool Heat Transfer Fluid (1L)	35 × 32 × 40" (813 × 889 × 1016mm)	115V/60Hz	190 lb. (86kg	SPD1010P1-115	**11-716-803**	11,340.00
Integrated SpeedVac System	Integrated SpeedVac System with concentrator, oil-free vacuum pump and -50°C cold trap 200 × 1.5mL rotor CryoCool Heat Transfer Fluid (1L)	33 × 32 × 40" (838 × 813 × 1016mm)	220V/60Hz	260 lb. (118kg)	SPD2010P1-220	**11-716-809**	15,530.00

Thermo Scientific™ Savant™ SPD111V P1 and P2 SpeedVac™ Kits

Necessary components for molecular biology applications

Choose our modular SPD111V P1 for standard evaporation or the SPD111V P2 when you want to lyophilize.

- Variable drying rate
- Time/temperature display incorporating membrane touch pad switches
- Safety coverlock
- Manual/auto timed run
- Standard, deep aluminum Teflon™ coated chamber
- Standard glass safety lids

INCLUDES:

SPD111V P1 SpeedVac Kit:

- SpeedVac concentrator, basic molecular biology
- Universal vacuum system with -50°C refrigerated vapor trap
- Glass condensation flask
- 40 × 1.5mL rotor
- Tubing package including 12' of thick-walled vacuum tubing, cutter, clamps and fittings, BV130 manual bleed valve and instructions
- CryoCool heat transfer fluid (1L)

Thermo Scientific Savant SPD111V SpeedVac Kits

SPD111V P2 SpeedVac Kit:

- SpeedVac concentrator, basic molecular biology
- -104°C, ultra-low temperature refrigerated vapor trap
- High vacuum pump
- 40 × 1.5mL rotor
- Universal tubing package
- Digital vacuum gauge
- Chemical trap kit
- Disposable cartridge
- Glass condensation flask
- Vacuum pump lubricating oil
- CryoCool heat transfer fluid (1L)

Description	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
SpeedVac Concentrator, Basic Molecular Biology	82 × 32 × 34" (2083 × 813 × 864mm)	115V/60Hz	300 lb. (136kg)	SPD111VP1-115	**11-716-804**	9460.00
SpeedVac Concentrator Kit, Basic Molecular Biology, Ultra-Low Temperature	82 × 32 × 34" (2083 × 813 × 864mm)	115V/60Hz	360 lb. (164kg)	SPD111VP2-115	**11-716-805**	12,830.00

Thermo Scientific™ Savant™ SPD121P SpeedVac™ Kits

Offer resistance to TFA, DSMO and other solvents used in combinational chemistry applications

Reliable and versatile, Savant SPD121P SpeedVac kits can be used with a wide variety of solvents.

- Deep aluminum standard PTFE-coated chamber
- Safety cover lock
- Radiant glass safety cover improves drying time by applying radiant IR heat to samples
- PTFE plumbing and tubing
- Two valve manifold with built-in automatic bleeder valve
- Time/temperature display incorporating membrane touch pad switches
- Variable drying times from 35°C to 80°C in five degree increments
- Manual/auto timed run
- Endpoint mode terminates run when pre-set vacuum gauge and vacuum displays

Thermo Scientific Savant SPD121 SpeedVac Kit

INCLUDES:

- SpeedVac Concentrator, Enhanced Evaporation
- -104°C, Ultra-Low Temperature Refrigerated Trap
- OFP400 Oil-Free ETFE/PFA 4-Headed Pump
- 64 × 1.5mL rotor
- Digital vacuum gauge
- Chemical trap kit
- Disposable cartridge
- Tubing and fitting kit
- Glass condensation flask
- CryoCool Heat Transfer Fluid (1L)

Description	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
SpeedVac Concentrator Kit, Enhanced Evaporation	82 × 32 × 34" (2083 × 813 × 864mm)	115V/60Hz	355 lb. (164kg)	SPD121PP1-115	**11-716-806**	17,550.00

Thermo Scientific™ Savant™ SPD131 SpeedVac™ Kits

Offer resistance to TFA, DSMO and other solvents used in combinational chemistry applications

- Deep aluminum standard PTFE-coated chamber
- Safety cover lock
- Radiant glass safety cover improves drying time for applying radiant IR heat to samples
- PTFE plumbing and tubing
- Two-valve manifold with built-in automatic bleeder valve
- Time/temperature display incorporating membrane switch
- Time/vacuum run
- Variable drying times from 35°C to 80°C in five degree increments
- Manual/auto timed run
- Endpoint mode terminates run when pre-set vacuum level is reached
- Built-in vacuum gauge and vacuum display
- Radiant lamps within the chamber
- Heated lid for processing high boiling solvents (DMSO, DMF)
- Wider vapor port and tubing for enhanced vapor throughput reduces drying times
- Adjustable vacuum level for preventing bumping of difficult solvent mixtures and optimizing drying times

Thermo Scientific Savant SPD131 SpeedVac Kit

Model P1-115 Includes:

- SpeedVac Concentrator, acid-resistant
- -104°C Ultra-Low Temperature Refrigerated Trap
- Oil-Free ETFE/PFA 4-Headed Pump
- 40 × 12 × 75 glass tubes rotor
- Glass condensation flask
- Tubing and fitting kit
- CryoCool Heat Transfer Fluid (1L)

Model P2-115 Includes:

- SpeedVac Concentrator, acid-resistant
- -50°C refrigerated vapor trap
- Vacuum pump
- Chemical trap
- Tubing kit
- Disposable cartridge
- Glass condensation flask
- Vacuum pump
- Lubricating oil
- CryoCool Heat Transfer Fluid (1L)

Description	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
SpeedVac Concentrator, Acid-Resistant	82 × 32 × 34" (2083 × 813 × 864mm)	115V/60Hz	350 lb. (159kg)	SPD131DDA P1-115	**11-716-807**	20,400.00
SpeedVac Concentrator Kit, Acid-Resistant, Refrigerated Vapor Trap	82 × 32 × 34" (2083 × 813 × 864mm)	115V/60H	350 lb. (159kg)	SPD131DDA P2-115	**11-716-808**	17,010.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Savant™ SC210 P1 SpeedVac™ Kits

Ideal for HPLC fraction and reversed-phase SPE eluant applications

The SC210P1 SpeedVac kit features an easy-to-use, large capacity concentrator. PTFE-coated chamber provides long lasting durability against harsh solvents.

- Three selectable heating levels to optimize evaporation
- Automatic bleeder value automatically provides vacuum at the beginning of a run and bleeds chamber to atmospheric pressure at the end of a run

Thermo Scientific Savant SC210 P1 SpeedVac Kits

Solvents and Solvent Combinations

- Acetonitrile
- Methanol
- Ethanol
- Water

APPLICATIONS:

- HPLC fractions with water/0.1% trifluoracetic acid
- Reversed-phase SPE eluants

INCLUDES:

- High-Capacity SpeedVac 210A Concentrator
- -104°C Refrigerated Vapor Trap
- Vacuum pump
- 200 × 1.5mL rotor
- Digital vacuum gauge
- Universal tubing package
- Chemical trap
- Disposable cartridge
- Glass condensation flask
- CryoCool Heat Transfer Fluid (1L)

Description	L × W × H	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
High-Capacity SpeedVac Plus Concentrator Kit	82 × 32 × 34 in. (2083 × 813 × 864mm)	115V/60Hz	450 lbs. (46kg)	SC210P1-115	**11-716-810**	14,890.00

Centrifugal

Thermo Scientific™ Savant™ DNA SpeedVac™ Concentrator Kits

Compact, fully integrated systems designed specifically for DNA and RNA applications

The DNA-series SpeedVac vacuum concentrators deliver rapid and efficient concentration and drying of DNA/RNA samples, nucleic acids, PCR preps and synthetic oligos. These easy-to-use, quiet, integrated systems are designed to accommodate microcentrifuge tubes or shallow-well microplates. A built-in, oil-free PTFE pump produces the vacuum required for rapid drying of samples with clean vacuum and no regular maintenance required. Choice of three models to handle low-volume sample preps as well as higher-volume processing requirements. Units are easy-to-use and install with no additional tubing or pumps required.

Operating Features

- Consistent performance: designed to ensure consistent drying times and reproducible results
- Simplicity: single program supports all DNA/RNA applications
- User-friendly interface: with temperature/time settings
- Three drying rates: ambient, ~43°C, ~65°C
- Dual digital timers: independent control of heat/run times

Sample Protection

- Dry at ambient temperatures or at very low heat to avoid sample denaturing
- Oil-free diaphragm pump provides gentle transition from atmosphere to ultimate vacuum setting with no bumping

Safety Features

- PTFE-coated chamber resists chemicals and cleans easily
- Latched lid ensures user safety during operation
- Unit and pump are virtually maintenance-free
- Optional chemical traps and cartridges trap radioactivity and ammonia

Solvents and Solvent Combinations for DNA120

- PCR buffers (aqueous)
- Water
- Ethanol and water

Solvents and Solvent Combinations for DNA-120-OP

- Ammonium hydroxide
- Isopropanel
- PCR buffers (aqueous)

20-548-130

DNA 120 SpeedVac Kit

- Corrosion-resistant, PTFE coated chamber provides years of lasting service
- Built-in, oil free vacuum pump provides maintenance-free operation
- Integrated and compact design
- Extremely quiet operation
- Choice of three drying rates
- Dual digital timers for independent control of heat and run times

DNA120OP SpeedVac Kit for Oligos

- All the features of the DNA 120
- Plus external post trap to neutralize ammonium hydroxide and chemically resistant glass cover to contain solvents

CERTIFICATIONS: CE (230V only)

Specifications	
Displacement	31L/min (at 50Hz); 36L/min @ 60Hz
Maximum Vacuum	7 Torr (9mbar)
Chamber Material	PTFE
Capacity	4L
Operating Temperature	-55°C (-67-F)

Model	Electrical Requirements	Mfr. No.	Cat. No.	Each
DNA120	115V 60Hz	DNA120-115	**20-548-130**	6450.00
DNA1200P	115V 60Hz	DNA1200P-115	**20-548-132**	7690.00
DNA120 0P	230V 50Hz	DNA1200P-230	**20-548-133**	7930.00

Labconco™ CentriVap™ Concentration Systems

Use centrifugal force, vacuum and heat to evaporate solvents rapidly from multiple biological or analytical samples

Components available separately or in application-specific packages. Choices include Aqueous, Acid and Solvent Systems, Acid-Resistant Systems, Mobile Systems and Gel-Dryer Systems.

Benchtop Concentrator

- Eliminates bumping and foaming, maximizes trace solute recovery
- Microprocessor-controlled 300w heater covers ambient to 100°C in 1° increments
- Optional Heat Boost™ surrounds chamber with extra controlled heat at programmed temperature, in closer proximity to sample
- Electrical receptacle included for an accessory vacuum pump (available separately)
- Vacuum delay prevents bumping by allowing rotor to achieve speed before applying vacuum
- Quick-Start™ button starts rotor, heater, timers and pump
- Quick-Stop™ system stops pump, opens vacuum release valve and stops rotor in seconds after time expires or RUN/STOP button is pressed
- Memory stores nine user programs (temperature/heat time/run time); LCD shows operating parameters and programs
- Compact, low-profile design
- Choice of removable acrylic lid with large, durable lid seal, or glass lid for use with solvents that attack acrylics
- Safety latch locks lid when rotor is turning, prevents start-up when lid is open
- Corrosion-resistant sample chamber has epoxy finish for easy cleaning and decontamination
- Microprocessor-controlled brushless motor runs at up to 1725rpm
- Stacks on top of cold trap to save space
- With 0.5" O.D. vacuum tube fitting

Acid-Resistant Vacuum Concentrator

- Rapidly concentrates multiple small samples containing harsh chemicals
- With durable, acid-resistant components throughout the vapor path
- Can be used with samples containing 0.1 to 1% TFA, hydrochloric acid, acetic acid, hydrobromic acid, ammonium hydroxide and sodium hydroxide
- PTFE-coated aluminum chamber with glass lid and large phenol-free lid gasket

Cold Trap

- Included in Aqueous, Acid, Acid-Resistant, Refrigerated, Solvent, Gel-dryer and Mobile Systems; available as separate component
- Protect vacuum pump by trapping moisture, vapors and corrosive fumes as they evaporate from samples
- Environment-friendly, CFC-free refrigerant
- Stainless-steel condenser collects 4L of liquid, accepts optional glass insert (16-315-61) for corrosives

Aqueous System 16-108-334

- Corrosion-resistant drain speeds cleanup
- READY light illuminates at -40°C, indicating concentration conditions are right
- Available in -50°, and -84° collector temperatures
- Contact your Customer Service Representative for other voltage models

ORDERING INFORMATION:
Available in 115V and 230V models.

COMPLIANCE:
Concentrators and cold traps are ETL, ETL-C, and CE listed.

Electrical Requirements	Mfr. No.	Cat. No.	Each
Benchtop Concentrator			
115V 50/60Hz, 12A	7810010	**16-108-334**	5218.48
230V 50/60Hz, 6A	7810011	**16-108-335**	5065.00
Benchtop Concentrator with Heat Booster			
115V 50/60Hz, 12A	7810012	**16-108-336**	5750.82
230V 50/60Hz, 6A	7810013	**16-108-337**	5500.00
Benchtop Concentrator with Glass Lid			
115V 50/60Hz, 12A	7810014	**16-108-338**	5553.32
230V 50/60Hz, 6A	7810015	**16-108-339**	5390.00
-50° Cold Trap			
115V 60Hz, 5.4A	7811020	**16-108-348**	4183.02
230V 50Hz, 2.4A	7811030	**16-108-349**	4060.00
230V 60Hz, 2.4A	7811040	**16-108-350**	4060.00
Ultra-low (-84°) Cold Trap			
115V 60Hz, 12A	7460020	**16-108-351**	6470.29
230V 50Hz, 6A	7460030	**16-108-352**	6280.00
230V 60Hz, 6A	7460040	**16-108-353**	6280.00

LOOKING FOR ACCESSORIES?

To view rotors and other accessories for Labconco Centrifugal Evaporators and a complete line of Labconco Evaporaters...

Visit www.fishersci.com and search for Labconco Evaporators

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Labconco™ CentriVap™ DNA Systems

For processing DNA samples or minute quantities of solvents

16-108-346

- Centrifugal force and vacuum rapidly evaporate solvents from multiple small samples
- DNA rotor holds 72 0.5mL sample tubes or sixty 1.5 or 2.0mL sample tubes
- Memory stores nine user-set programs
- Corrosion-resistant diaphragm pump achieves vacuum of 7mbar; has pumping capacity of 34L/min.
- Heat and run times set separately, each from 1 to 999 minutes so that heat may be programmed to shut down sooner than run to protect heat-sensitive samples from excessive heat exposure after solvent evaporates
- Large phenol-free lid seal ensures good vacuum without potential for phenol contamination
- Easy-to-read LCD display prompts user to set program parameters and displays program number, actual and set point temperatures, point heat and run time remaining

ORDERING INFORMATION: Available in 115V and 230V models. Dimensions (closed lid): 15.1W × 28.5D × 11.2"H (38.3 × 72.4 × 28.4cm). Weight: 80 lb. (45kg)

INCLUDES: CentriVap Benchtop Concentrator, integral vacuum pump, DNA rotor, inlet and outlet glass traps (177mL) to protect pump and environment

REQUIRES: Sample tubes

WARRANTY: One year

CERTIFICATIONS: 115V model is ETL and ETL-C listed. 230V models are CE marked.

Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 60Hz, 12A	7970010	**16-108-346**	9731.20
230V 50/60Hz, 6A; North America receptacle and plug	7970011	**16-108-347**	9445.00

Labconco™ CentriVap™ Mobile Systems

Combine concentrator and cold trap in space-saving mobile console

16-108-340

Concentrator Features

- 300w ambient to 100°C heater; selectable heater shutdown before end of run; run times from 1 to 999 min.
- Automatic vacuum release when rotor stops (to prevent sample loss)
- Microprocessor-controlled brushless 1725rpm motor
- Large corrosion-resistant sample chamber with powder coating
- Removable acrylic lid with durable seal; safety sensor locks lid when rotor is turning, prevents start-up when lid is open
- Removable front panel gives access to accessory vacuum pump
- Pump plugs into receptacle, activates from control panel
- Automatic vacuum delay applies vacuum only after rotor achieves set speed to prevent bumping

Cold Trap Features

- 1/3hp compressor lowers cold trap temperature to -50°C in less than 30 minutes and accelerates start-up procedures; uses CFC-free refrigerant
- Stainless-steel condenser collects up to 4L of liquid
- Condenser drain with nylon valve and stainless-steel plumbing speeds cleaning
- Built-in chemical trap canister and solvent trap insert to protect vacuum pump

INCLUDES: Concentrator and -50°C Cold Trap in a compact console, mounted on 2" dia. (5cm) hard-rubber casters for portability; 12–13mm rotor that holds (forty) 1.5–2.0mL microcentrifuge tubes or up to (one hundred) 12–13mm dia. tubes; one solvent trap insert

REQUIRES: Vacuum pump required; order separately.

Electrical Requirements	Mfr. No.	Cat. No.	Each
Mobile System			
115V 60Hz, 16A	7812010	**16-108-340**	11,900.00
Mobile System with Heat Boost™			
115V 60Hz, 16A	7812013	**16-108-343**	12,305.00

Labconco™ CentriVap™ Gel Dryer Systems

Allow accessory pump to be shared between applications

- Rotor holds 40 1.5/2.0mL microcentrifuge tubes or up to 100 12 to 13mm dia. tubes
- Three-way valve allows accessory pump to be shared among applications

ORDERING INFORMATION: Available in 115V and 230V models.

INCLUDES: Benchtop concentrator, -50°C Cold Trap, gel dryer, 12–13mm rotor, three-way valve, vacuum tubing and clamps

REQUIRES: Vacuum pump required; order separately.

16-108-363 (Pump available separately)

Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 60Hz, 12A/5.4A/10A	7475010	**16-108-363**	12,150.00
230V 50Hz, 6A/2.4A/5A	7475011	**16-108-364**	11,790.00
230V 60Hz, 6A,/2.4A/5A	7475012	**16-108-365**	11,790.00

Labconco™ Refrigerated Vacuum Concentrators

Unique instruments use a refrigeration system and heater to achieve selected setpoint temperature from -4°C to +100°C

Centrifugal force and vacuum rapidly concentrate multiple small samples, such as RNA and proteins. Microprocessor-controlled cooling and heating systems protect delicate samples from heat during processing.

- Programming holds two temperatures and times
- Setpoints for first and second temperatures and run times are selected separately
- PREHEAT/COOL button activates the refrigeration system and heater to reach setpoint temperature
- Set temperatures and times can be altered while a program is in process
- Memory stores up to nine user-defined programs
- Choose removable acrylic lid or solvent-resistant glass lid, each with large phenol-free lid gasket
- Utilize centrifugal force, vacuum and heat
- Brushed, stainless steel and glacier white, epoxy-coated steel exterior with blue accents
- 300W heater increases temperature in one degree increments up to 100°C
- Quick-Start™ one button start up to simultaneously activate rotor, heater, timers and vacuum pump

Brushless motor spins up to 1725rpm

- Quick-Stop™ system stops vacuum pump, open valve and stop rotor
- Automatic vacuum release valve
- Lid latch with safety sensors
- Easy-to-read LCD display
- Separate heat and run times, each from 1 to 999 minutes
- Audible alarm signals completion of set point run time
- Electrical receptacle enables connection of accessory vacuum pump
- Vacuum pump has quick disconnect fitting for connection of a vacuum gauge
- 12" dia. chamber accommodates a wide variety of rotors, including microtiter plate rotors for 96-well plates

Refrigerated Vacuum Concentrators

ORDERING INFORMATION: W × D × H (closed): 14.7 × 19.3 × 11.7" (37.3 × 49 × 29.6cm)

INCLUDES: 115V models have a 115V electrical receptacle on the back plus 10', 3-wire cord with NEMA 6-20 plug; 230V models have a reverse IEC electrical receptacle on the back plus an 8' cord with NEMA 6-20 plug.

REQUIRES: Rotor, cold trap and vacuum pump

COMPLIANCE: ETL and ETL-C compliant.

Electrical Requirements	Mfr. No.	Cat. No.	Each
Acrylic Lid			
115V 60Hz, 8A	7310020	**16-108-442**	8520.00
Glass Lid			
115V 60Hz, 8A	7310021	**16-108-443**	9416.95
230V 50Hz, 8Amp; Domestic; North America plug	7310042	**10-269-606**	11,415.00
115V 60Hz, 16Amp; Domestic; 115V, 20A plug	7310022	**10-269-602**	11,731.77
230V 50Hz, 8Amp; International; British (UK) plug	7310034	**10-269-604**	11,415.00
230V 50Hz, 8Amp; International; China/Australia plug	7310039	**10-269-605**	11,415.00
230V 50Hz, 8Amp; International; Schuko plug	7310032	**10-269-603**	11,415.00

Labconco™ CentriVap™ Complete Concentrators

Come with everything needed to start processing

Use a combination of centrifugal force, vacuum and heat to speed evaporation.

Includes:

- Vacuum Concentrator
- -50°C Cold Trap
- Aluminum rotor holds 40 microcentrifuge tubes and 12-13mm tubes
- Chemical-resistant diaphragm vacuum pump
- CentriZap™ Strobe Light allows user to view samples while rotor is spinning and lid is closed

CentriVap Complete Concentrator

Type	Mfr. No.	Cat. No.	Each
Not Acid Resistant; without Heat Boost	7315020	**10-269-700**	16,490.00
Acid resistant	7315021	**10-269-701**	19,920.00
With heat boost	7315022	**10-269-702**	16,900.00
Acid resistant with Heat Boost	7315023	**10-269-703**	20,330.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Vortex

Labconco™ RapidVap™ Vacuum Evaporation System

Alternative to traditional centrifugal evaporation methods evaporates using vortex motion, heat and vacuum

Processes up to 110 samples at once. Interchangeable aluminum sample blocks coated with PTFE. Holds tubes from 12mm O.D. to 600mL.

Advanced vacuum function

- Microprocessor controls vacuum at preset level; automatic vacuum release if power fails
- LCD shows vacuum level from 0 to 999mbar
- Rear-mounted vacuum connections: vacuum port, tubing clamps, lid heater receptacle, 30"L (76cm), 0.5" I.D. tubing for connection to accessory vacuum pump

Safety features

- Lexan™ shield on clear glass lid protects against glass implosion
- Dual lid clamps hold lid securely in place for vacuum-tight seal
- Phenol-free gasket provides complete sealing under vacuum
- PTFE-coated aluminum chamber
- Audible/visual alarm for end point detected by temperature sensors at heater and block

Optional Lid Heater

- 40w heater plugs into electrical receptacle on rear
- Eliminates fogging, increases visibility when evaporating water or other high-boiling-point solvents

Improved control panel

- Easy-to-read LCD display prompts operator to program desired parameters and displays vortex speed by percentage, actual and set temperatures in °C and total time remaining in minutes. Enter up to nine different protocols into memory for easy repetition of exact test parameters

Advanced heating system

- Contamination- and maintenance-free 1000W dry block heating system speeds evaporation rate by supplying a controlled amount of heat from ambient up to 100°C
- Heater and sample block move in tandem for more efficient heat transfer
- Alarm signals completion of run, allowing samples to be left unattended while evaporating to desired endpoint

Efficient operation

- Brushless DC motor ensures safe, maintenance-free operation and provides smooth, variable-speed power up to 1000rpm
- Produces no potentially dangerous sparks

Increased durability

- Systems may be used with broad range of strong chemicals
- Powder-coated, aluminum cabinet base with smooth, solvent-resistant acrylic/PVC thermoplastic upper housing
- Aluminum chamber with PTFE coating conducts heat efficiently and resists corrosion
- All mechanical components are isolated from chemical fumes and vapors for longer life

16-317-1

- Chemical-resistant glass lid provides visibility of samples and detaches for cleaning
- Phenol-free gasket provides sealing without potential for phenol contamination
- RapidVap models with optional RS-232 link allow all front panel functions to be performed and monitored from a personal computer (not included)

ORDERING INFORMATION:
Includes 6.5' (2.0m) three-wire cord with plug. Dimensions (lid closed): 18.4L × 20.7W × 13.5"H (46.7 × 52.6 × 34.3cm). Weight: 92 lb. (42kg)

230V models available; contact your Fisher Scientific Customer Service Representative for details.

REQUIRES:
Vacuum pump, sample block and glassware. Select vacuum pump based on solvent type and possible temperature limitations. 115V models require 20A minimum circuit breaker

CERTIFICATIONS:
115V models are ETL and ETL-C listed.

Description	Electrical Reqts.	Mfr. No.	Cat. No.	Each
Without Lid Heater	115V 50/60Hz, 7A	7900000	**16-317-1**	11,535.00
With Lid Heater	115V 50/60Hz, 8.6A	7900002	**16-317-19**	13,131.20

Extraction

Solvent Extraction Systems

Foss™ Tecator™ Soxtec™ System 2043 Extraction Unit

TC2043-002

- For organic solvent extraction of solid and semisolid materials from food, feed, soil, petrochemicals, detergents and pharmaceuticals. Soxtec, a patented method, is based on Soxhlet and Randall extraction methods. It follows an AOAC approved method and consists of three easy steps
- Because you can reuse solvent, you'll cut your solvent costs by as much as 60%. Requires 2L/min. tap water flow for cooling.
- Soxtec Systems can process samples up to five times faster than Soxhlet or Goldfisch with equal precision and ±1% reproducibility. They operate at temperatures up to 290°C, so they can accept a variety of solvents with different boiling points and dissolution characteristics.
- For batch of six samples.[1] Reproducibility, ±1%. Thimble volume, 25mL. Includes extraction unit, control unit, 6 aluminum extraction cups, cup holder, twenty-five 26mm thimbles, thimble adapters, thimble stand, seals in Viton™ and butyl, tubing and all necessary hardware.

No. of Samples	Power Requirements	Cat. No.	Each
6	115V	**TC2043-002**	19,580.00

[1]Systems for two samples are also available. Visit the Fisher Scientific™ Web Site at www.fishersci.com or call your Customer Service Representative.

Foss™ FiberTec™ E Extraction Unit

Dedicated for fibre determinations according to Weende, van Soest, etc., for hot hydrolysis and extraction with built-in systems for heating and filtration

TC10230012

- Six samples processed simultaneously
- Integral extraction and filtration
- No sample transfer and no loss of sample
- Separate unit for solvent dehydration, lignin determination and defatting
- Extensive application service with high reproducibility of conditions and results
- Follows official methods such as ISO 6865, 92/89 EEC and AOAC 2002.04 (feed)
- Sample size: 0.5 to 3g
- Measuring range: 0.1% to 100%
- Repeatability: ±1% relative at 5% to 30% fibre level
- Capacity per day: Up to 36 analyses (crude fibre method acc. to Weende) per day

INCLUDES: Hot Extractor, Reflector, Reagent Bottles, Hot Water Sprayer, Beaker, Funnel, Water Suction Pump, Antifoaming Agent, Tubing, Holder for 6 crucibles, Stand for 6 crucibles, Crucibles (P2 standard, 2 sets of 6), Manual

Description	Power Requirements	Mfr. No.	Cat. No.	Each
Fibertec E Hot Extration Unit	200-230V +/-10% 50-60Hz 1kW	FT350	**TC10230012**	15,700.00

Foss™ FiberTec™ M6 Hot Extraction Unit

Fibre analysis system that determines fibre content according to Weende, van Soest and other recognised methods, using externally preheated reagents

- For hot hydrolysis and extraction with built-in systems for heating and filtration
- Processes six samples simultaneously
- Integral extraction and filtration
- No sample transfer and no loss of sample
- Separate unit for solvent dehydration, lignin determination and defatting
- Samples are handled in specially designed filter crucibles
- Extensive application service
- Water supply: Tap water for condensors (~2L/minute) and water aspirator (during filtration)
- Sample size: 0.5 to 3g
- Measuring range: 0.1 to 100%
- Capacity per batch: Up to 6 samples simultaneously
- Capacity per day: Up to 36 analyses (crude fibre method acc. to Weende) per day
- Repeatability: ±1% relative at 5 to 30% fibre level

TC10200011

INCLUDES: Hot extractor, reflector, reagent bottles, hot water sprayer, beaker, funnel, water suction pump, antifoaming agent, tubing, holder for six crucibles, stand for six crucibles, crucibles (P2 standard, two sets of six), manual

CERTIFICATIONS: ISO 6865, 92/89 EEC and AOAC 2002.04 (feed).

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Hot Extration Unit	200-230V 50-60Hz 1.000kW	10200011	**TC10200011**	16,200.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

Foss™ Accessories for Soxtec™ Fat Extraction Systems

Cups, Thimbles, Seals and Adapters for use with Soxtec™ 2055 system and discontinued systems

TC1522-0018

Description	For Soxtec Unit	Cat. No.	Pack of
Extraction Cups			
Glass	HT 6, HT 12, 2043	**TC1000-1820**	6/593.00
Glass	2055, 2050	**TC1000-7673**	6/763.50
Aluminum	HT 6, HT 12, 2043	**TC1000-1462**	6/307.00
Aluminum	HT 2, HT 4, 2045	**TC1000-2290**	2/112.07
Aluminum	2055, 2050	**TC1000-7510**	6/345.50
Thimbles			
26mm	HT 6, HT 12, 2043, 2045, 2055	**TC1522-0018**	25/120.67
Seals			
Viton™ Condenser Seal	HT 6, HT 12, 2043	**TC1000-2516**	6/127.40
Butyl Seal	HT 2, HT 4	**TC10002706**	2/19.78
Butyl Seal, Black	HT 6, HT 12, 2043	**TC1000-2517**	6/127.50
Thimble Adapters			
26, Standards	HT 6, HT 12	**TC1000-1466**	6/355.00
33, Standard	2055, 2050	**TC1000-7524**	6/327.00

ON THE WEB...

Looking for more Foss accessories for Soxtec Fat Extraction Systems? To view the complete line of Foss Solvent Extraction Systems

Visit www.fishersci.com and search for Foss Solvent Extraction Systems

Labconco™ Crude Fiber Apparatus

Six 350-watt heaters for 600mL beakers

Benchtop unit for determining crude fiber in feed, food and other agricultural products as outlined in AOAC™ methods. Amount of crude fiber is determined by subjecting sample to simulated digestive action. Samples are boiled in acid, washed, boiled in alkali and washed again. Loss upon ignition is defined as crude fiber.

- Compression spring holds beaker rigidly between heater and condenser during digestion
- Tight seal keeps acid and alkali at constant volumes during boiling
- Complete for six samples
- Requires connection to water source

09-681B

ORDERING INFORMATION:
Dimensions: 9L × 35.68W × 27.18"H (23 × 91 × 69cm). Shipping weight: 137 lb. (62kg). Base cabinet not included. For 115V 50/60Hz, 2100w. Must be wired directly to line (line cord not supplied).

INCLUDES:
350W heaters, six; Infinite heat controls, six; Tall-form 600mL borosilicate glass beakers — six for test and six spares, 12; Stainless-steel condensers, six

Description	Mfr. No.	Cat. No.	Each
Crude Fiber Apparatus	3000100	**09-681B**	12,445.00

Concentrator Tubes

Kimble™ Kontes™ Concentrator Tubes for Evaporative Concentrators

Used with Kontes Evaporative Concentrators

K570050-1025

Used with Kontes Evaporative Concentrators	Tube Capacity	Joint	Graduation Ranges/Subdivisions	Mfr. No.	Cat. No.	Each
Without hooks for Clamp Attachment						
569310-0000	12mL	14/20	0 to 2mL/0.1mL, 2 to 12mL/0.2mL	288251-0000	**K288251-0000**	37.45
—	25mL	19/22	0 to 1mL/0.1mL, 2 to 10mL/1.0mL, 10 to 25mL/2.0mL	570051-2525	**K570051-2525**	67.52
Optional for Kuderna-Danish, other concentrators	10mL	19/22	0 to 10mL/0.5mL	570061-0519	**K570061-0519**	55.77
With Hooks for Spring Attachement						
569350-0000, 570025-0250, 570025-0500	10mL	19/22	0 to 1mL/0.1mL, 2 to 10mL/1.0mL	570050-1025	**K570050-1025**	58.78
Slow-drying						
569365-0000, 570035-1000	25mL	24/25	0 to 1mL/0.1mL, 2 to 10mL/1.0mL, 10 to 25mL/2.0mL	570051-2526	**K570051-2526**	69.81
570010-0250, 570035-0250, 570035-0500, 570035-0503, 569010-0219, 569010-0319, 569360-0000	10mL	19/22	0 to 1mL/0.1mL, 2 to 10mL/1mL	570071-1025	**K570071-1025**	72.83
570040-0500, 570010-0250, 570040-0250, 570040-0503	15mL	19/22	0 to 1mL/0.1mL, 2 to 15mL/1mL	570071-1525	**K570071-1525**	76.37

Condensers

Kimble-Chase Kimax™ Soxhlet Apparatus with Allihn Condenser, Complete unit

Designed from Fed. Spec. NNN-F-240

- Complete assembly includes 09-551-10 Series Allihn condenser, 09-553 Series Soxhlet extraction tube with ₮ 24/40 joint at bottom, 09-552 Series flask
- All connected by interchangeable ground joints
- Hose connections on condenser accept 0.31" I.D. (8mm) flexible tubing

09-551 Series

₮ Joint Top of Tube	For Paper Thimbles (Dia. × H)	Flask Capacity	Mfr. No.	Cat. No.	Each
34/45	25 × 80mm	125mL	24005 30	**09-551A**	394.83
45/50	33 × 80mm	250mL	24005 40	**09-551B**	423.44
55/50	43 × 123mm	500mL	24005 50	**09-551C**	475.98

Kimble-Chase Kimax™ Soxhlet Apparatus with Allihn Condenser, Condenser only

- Allihn condenser with bulbs
- Connect using interchangeable ground joints
- Hose connections on condenser accept 0.31" I.D. (8mm) flexible tubing

₮ Joint	Mfr. No.	Cat. No.	Each
34/45	24027 30	**09-551-10A**	170.31
45/50	24027 40	**09-551-10B**	190.71
55/50	24027 50	**09-551-10C**	225.77

Kimble-Chase Kimax™ Soxhlet Apparatus with Allihn Condenser, Extraction Tube Only

- With ₮ 24/40 joint at bottom
- Connect by interchangeable ground joints

₮ Joint Top	Mfr. No.	Cat. No.	Each
34/45	24071 30	**09-553A**	208.60
45/50	24071 40	**09-553B**	251.26
55/50	24071 50	**09-553C**	287.00

Kimble-Chase Kontes™ Brand Distilling Columns

Used with Kontes Evaporative Concentrators

K503100-0003

For Kontes Evaporative Concentrators	Special Features	₮ Joint	No. of Chambers	Cat. No.	Each
Columns with Hooks for Spring Attachment					
569000-0319	Improved Snyder type speeds evaporation, reduces holdup within column	19/22	3	**K569001-0319**	84.50
Columns without Hooks for Clamp Attachment					
570035	Improved Snyder type, 250mmH	24/40	3	**K503100-0003**	163.70

Kimble-Chase Kimax™ Short Neck Flask with ₮ Joints

- Freestanding flasks with ₮ 24/40 joints
- Designed from ASTM™ E 1403, Type I, Class 4 requirements

09-552C

Capacity	Mfr. No.	Approx. Height	Cat. No.	Each	Case of 12
125mL	25055 125	115mm	**09-552A**	43.92	383.15
250mL	25055 250	133mm	**09-552B**	43.55	385.00
300mL	25055 300	155mm	**09-552D**	66.14	576.81
500mL	25055 500	135mm	**09-552C**	48.45	429.00
1000mL	25055 1000	182mm	**09-552E**	52.23	455.32

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Kontes™ Soxhlet/Dean-Stark Apparatus with Allihn Condenser

Avoid analyte loss and sample contamination

- Combines Soxhlet extraction and Dean-Stark azeotropic distillation into a single process for the removal of water, chlorinated dibenzo-p-dioxins (CDDs) and chlorinated dibenzofurans (CDFs) from the same wet particulate sample
- Does not require desiccation prior to Soxhlet extraction, so loss of analytes and sample contamination are avoided

REQUIRES: Complete assembly requires Cat. No. K586500-0023 or -0233 fritted glass extraction thimble (order separately online).

K585150-0023

Item	Mfr. No.	Cat. No.	Each
Complete Apparatus	585150-0023	**K585150-0023**	784.98
Component Parts			
Dean-Stark Receiver, $ 55/50 top and side, 35mL (A in photo)	585151-0035	**K585151-0035**	297.55
Soxhlet Extractor, $ 55/50 top and $ 24/40 bottom (C)	586000-0023	**K586000-0023**	252.50

Corning™ Pyrex™ Brand Soxhlet Apparatus with Allihn Condenser

Complete unit

- Consists of 09-557 Series Allihn condenser, 09-558 Series Soxhlet extraction tube, and flat-bottom boiling flask
- All connected by interchangeable ground joints
- Condenser has 10mm tubulation
- 09-557 Series Condensers are available online (09-557A, 09-557B, 09-557C, 09-557D)

09-556 Series

$ Joint Top of Tube	Approx. Height	Flask Capacity	Mfr. No.	Cat. No.	Each
34/45	655mm	125mL	3840 S	**09-556A**	405.50
45/50	711mm	250mL	3840 M	**09-556B**	454.00
55/50	803mm	500mL	3840 L	**09-556C**	501.00
71/60	880mm	1000mL	3840 XL	**09-556D**	892.00

Corning™ Pyrex™ Brand Soxhlet Apparatus Allihn Condenser Extraction Tube

- Pyrex Soxhlet, $ 24/40 joint at bottom
- Tube 09-558D has $ 29/42 joint at bottom

$ Joint Top	Mfr. No.	Cat. No.	Each	Case of 2
34/45	3740 S	**09-558A**	278.50	405.00
45/50	3740 M	**09-558B**	338.50	492.00
55/50	3740 L	**09-558C**	387.00	562.50
71/60	3740 XL	**09-558D**	964.26	----

Sample Handling Accessories

Whatman™ Extraction Thimbles

For use in Soxhlet extraction units

Whatman thimbles assortment

Pure Cellulose Thimbles

- Made from pure cotton cellulose
- For extraction of pesticides from environmental samples, fat analysis in the food industry
- Single-thickness thimbles have wall thickness of approximately 1mm
- Double-thickness thimbles have ~2mm wall thickness

Borosilicate Glass Thimbles

- For high-temperature extractions up to 550°C (1022°F)
- Also for using solvents incompatible with cellulose thimbles

I.D.	Height	Mfr. No.	Cat. No.	Pack of 25
Pure cellulose, 1mm single thickness				
10mm	50mm	2800-105	**20-653**	116.10
19mm	90mm	2800-199	**09-656K**	121.60
22mm	65mm	2800-226	**09-656A**	121.60
22mm	80mm	2800-228	**09-656B**	127.70
25mm	80mm	2800-258	**09-656C**	127.70
25mm	90mm	2800-259	**09-656M**	129.90
25mm	100mm	2800-250	**09-656L**	127.70
26mm	60mm	2800-266	**09-656D**	137.90
30mm	80mm	2800-308	**09-656P**	137.90
30mm	100mm	2800-300	**09-656N**	137.90
33mm	80mm	2800-338	**09-656F**	157.10
33mm	94mm	2800-339	**09-656G**	160.10
33mm	118mm	2800-331	**09-656Q**	157.10
43mm	123mm	2800-432	**09-656H**	212.00
60mm	180mm	2800-608	**09-656J**	300.00
Pure cellulose, 2mm double thickness				
16mm	60mm	2810-166	**09-657K**	162.60
22mm	80mm	2810-228	**09-657A**	160.60
25mm	80mm	2810-258	**09-657C**	160.60
26mm	60mm	2810-266	**09-657P**	174.00
33mm	80mm	2810-338	**09-657B**	213.50
33mm	94mm	2810-339	**09-657D**	213.50
43mm	123mm	2810-432	**09-657H**	280.00
33mm	94mm	10350242	**09-924-232**	136.00
48mm	200mm	10350274	**09-924-245**	292.50
Borosilicate glass				
19mm	90mm	2814-199	**09-657-1A**	211.00
30mm	100mm	2814-300	**09-657-1C**	211.00
43mm	123mm	2814-432	**09-657-1B**	400.00

Sartorius™ BIOSTAT™ Cultibag RM

Optimized for cell cultivation

The new generation of single-use bioreactors utilizing rocking motion for mixing with low shear.

14-558-205

The BIOSTAT RM is ideal for:

- Cell culture, growth of animal, insect and plant cells
- Expansion and differentiation of stem cells
- Shear sensitive cells
- Microorganisms for low to medium density cultivation
- Transition from shake or tissue culture flasks
- Seed cultivation for large scale bioreactors
- Production scale up to 300L
- For all your single-use applications
- BIOSTAT RM Control Tower presents an easy-to-use touch screen control with integrated measurement and control hardware, pumps, temperature and gassing systems for excellent process control
- Each basic, optical and perfusion package also includes BioPAT™ MFCS/DA data logging software
- A large variety of operation modes facilitates a batch oriented bioprocessing

Basic Packages:

- Used for simple and easy cultivations. The rocker is used as a standalone unit and can independenty control the temperature and gassing of two bags, which are mounted on the same platform. The systems features an integrated air / CO_2 gassing module. Gas flow rates can be set individually for two bags. Furthermore, the machine is equipped with an advanced color touch screen for easy operation. Different user levels prevent unauthorized manipulations in GMP environments. Many safety features such as pressure measurement and shut off ensure safe operation. Rocking rate and rocking angle can be adjusted individually.

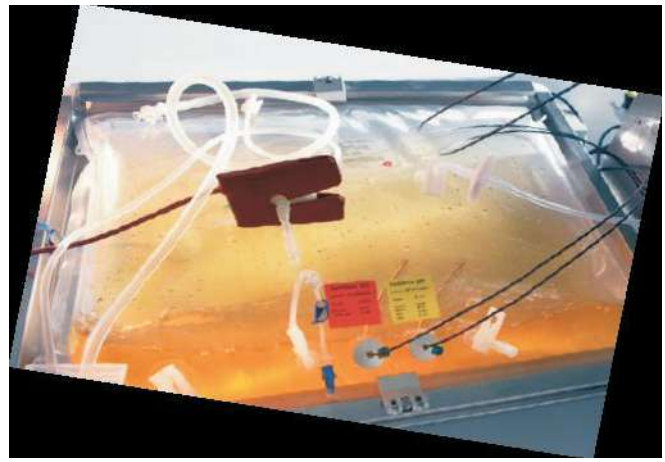
Optical Packages:

- Designed for batch and fed-batch processes. Process control is achieved through single-use optical chemical pH and DO sensors. Feedback control of both values is available for your process. Two integrated pumps are included.

Description	Mfr. No.	Cat. No.	Price
Package BIOSTAT CultiBag RM 50 Basic – 120V; 50 to 60Hz	DH-050LBRM-1	**14-558-203**	28,531.00
Package BIOSTAT CultiBag RM 20 Optical – 120V; 50 to 60Hz	DH-020LORM-1	**14-558-205**	61,794.85
Package BIOSTAT CultiBag RM 20 Optical Twin Rocker – 120V; 50 to 60Hz	DH-020LOR2-1	**14-558-207**	120,510.00

Sartorius™ CultiBag RM Basic

Basic cultibags are designed for use in seed train and production applications without pH and DO control



14-558-213

The CultiBag RM is a single use bioreactor bag available in multiple sizes and configurations depending on customer requirements.
The inner layer of the disposable bioreactor bag is made of ethyl vinyl acetate (EVA), which shows an excellent biocompatibility.

Sensors

- Precise and reliable single-use sensors for pH and DO come pre-installed and sterilized with the bag. The sensors are pre-calibrated and the calibration data is supplied together with the bag. After entering the data in the controller, the sensors are ready for use. Calibration is fast and convenient. An optical fibre connects to the sensor patch, which is located at end of a sleeve in the bag. As there is no physical contact of the optical fiber to the inside of the bag, sterility is maintained at all times. The optical fibre transmits light of specific wavelengths to the sensor patch and returns the luminescence response from the sensor back to the measuring amplifier.

Flexibility and Configurations

- Bags are available as basic, optical and perfusion pro configurations. Basic bags are designed for use in seed train and production applications without pH and DO control. Optical bags feature single use optochemical pH and DO sensor, which are already installed in everybag and calibrated. Used together with the BIOSTAT™ RM control tower, they allow high end cultivation with full process automation.

Capacity	Mfr. No.	Cat. No.	Each
50L	DBB050L	**14-558-213**	421.50

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ BIOSTAT™ A plus Fermentor – Bioreactor System

The introductory Fermentor – Bioreactor System

BIOSTAT A plus is a compact, autoclavable laboratory fermentor – bioreactor system suitable for a wide range of research, education and industrial applications. A number of easy-to-use, pre-configured versions are available for both microbial culture and cell culture which simplify the handling of the fermentor. The space saving control unit with its universal motor fits all available vessel sizes (1L/2L/5L).

Cell Culture package

- Suitable for mammalian, insect and plant cell culture
- Working volumes from 0.4 to 5L
- Integrated 4-gas mixing system (Air, O_2, N_2, CO_2)
- Freely selectable gas composition to sparger or overlay (headspace)
- For flow meters for individual flow rate setting
- DO control via automatic valves for air and O_2
- pH control via CO_2 / acid and base
- Special impeller design for low shear stress

Microbial package

- Suitable for bacteria, yeast and fungi cultivation
- Working volumes from 0.4 to 5L
- Airflow gassing system with oxygen enrichment capability
- Efficient agitation system for high cell density cultures
- Automatic DO control for agitation, air and O_2 flow or substrate addition
- Anaerobic culture

BIOSTAT A plus Fermentor – Bioreactor System

Bioreactor Operation

- A powerful Notebook PC is included in every BIOSTAT A plus. The color graphical operation screen is self-explanatory and simple to operate. Up to four bioreactors / fermentors can be operated by one Notebook PC. The user can define specific names for each unit which makes identification and interaction between the processes very efficient.

Data Aquisition

- BioPAT™ MFCS/DA (Data Acquisition), the world standard in bioprocess control, is included in every delivery
- Batch-oriented data collection and storage
- Evaluation of on-line and off-line measurements or calculated values
- Data of finished or active batches can be exported to third party programs (e.g. Microsoft™ Excel™)

For Use in	Vessel Volume	Mfr. No.	Cat. No.	Each
Cell Culture	2L	RAP-C02LFTSDM1	**14-558-613**	19,261.00
Microbial	1L	RAP-M01LOTRDM1	**14-558-615**	17,304.00

Sartorius™ BIOSTAT™ A plus CC UniVessel™

Suitable for mammalian, insect and plant cell culture.

Supplementary culture vessels are available for BIOSTAT A plus bioreactors which can be ordered separately. All A plus vessel designs are single-wall using an electric heating blanket. Each UniVessel™ is supplied with a range of accessories including but not limited to probes, filters, tubing, sampling devices, impellers, sparger, addition fittings and more. Cell culture (CC) versions are suitable for mammalian, insect and plant cells. The polished, stainless steel head plate has been specifically constructed to allow a maximum number of different ports tailored for probes and additional accessories. Vertical lifting handles allow for easy transfer to and from the autoclave. A high-torque, factory pre-aligned servo drive motor assembly provides shear sensitive agitation of cell cultures.

14-558-621

Capacity	Mfr. No.	Cat. No.	Each
1L	BB-8846322	**14-558-621**	9690.00

Sartorius™ BIOSTAT™ A plus MO UniVessel™

Suitable for Bacteria, Yeast and Funghi cultivation.

Supplementary culture vessels are available for BIOSTAT A plus fermentors which can be ordered separately. All Aplus vessel designs are single-wall using an electric heating blanket. Each UniVessel is supplied with a range of accessories including but not limited to probes, filters, tubing, sampling devices, impellers, sparger, addition fittings and more. Microbial (MO) versions are suitable for bacteria, yeast and fungi cultivations. The polished, stainless steel head plate has been specifically constructed to allow a maximum number of different ports tailored for probes and additional accessories. Vertical lifting handles allow for easy transfer to and from the autoclave. A high-torque, factory pre-aligned servo drive motor assembly ensures rapid oxygen transfer rates in high cell density fermentations.

14-558-618

Capacity	Mfr. No.	Cat. No.	Each
1L	BB-8846320	**14-558-618**	9690.00

Filtration

Bottle Top and Filter Units

EMD Millipore™ Stericup™ Sterile Vacuum Filter Units

No-tip design for improved stability during filtration

Ideal for laminar flow hood use.

- Stem cell tested; 0.22µm pore size
- Gamma radiation sterilized
- Tapered flasks are easy to grip; with recessed bottom for easy stacking and storage of capped flasks
- Filter with 0.10µm membrane is ideal for removing mycoplasma
- Small tab secures prefilter in place during filtration (order prefilters separately, see AP2007500) Millipore Express™ Plus polyethersulfone (PES) for fast-flow, low protein binding sterilization of aqueous solutions
- Durapore™ polyvinylidene fluoride (PVDF) for lowest protein binding sterilization/clarification of biological solutions

SCGPU01RE

ORDERING INFORMATION: Filter diameter: 73mm

INCLUDES: Graduated, polystyrene receiving flask for storing volumes of 150, 250, 500 and 1000mL as indicated.

Pore Size	Membrane	Cat. No.	Pack of 12
150mL Funnel, 150mL Receiver			
0.22µm	PES	**SCGPU01RE**	84.90
0.22µm	PVDF	**SCGVU01RE**	80.60
0.45µm	PVDF	**SCHVU01RE**	83.80
250mL Funnel, 250mL Receiver			
0.10µm	PES	**SCVPU02RE**	123.30
0.22µm	PES	**SCGPU02RE**	112.40
0.22µm	PVDF	**SCGVU02RE**	104.00
0.45µm	PVDF	**SCHVU02RE**	107.10
500mL Funnel, 500mL Receiver			
0.22µm	Millipore Express Plus (PES)	**SCGPU05RE**	172.08
0.22µm	PVDF	**SCGVU05RE**	168.60
0.45µm	PVDF	**SCHVU05RE**	172.80
500mL Funnel, 1000mL Receiver			
0.22µm	PES	**SCGPU10RE**	249.50
0.22µm	PVDF	**SCGVU10RE**	245.00
1000mL Funnel, 1000mL Receiver			
0.10µm	PES	**SCVPU11RE**	286.50
0.22µm	Millipore Express Plus (PES)	**SCGPU11RE**	249.50
0.22µm	PVDF	**SCGVU11RE**	245.00
0.45µm	PVDF	**SCHVU11RE**	245.00

Stericap PLUS, 1L Receiver Flask

Replacement receiver flasks: 45mm neck with screw-top lid.

SC00B10RE

Description	Cat. No.	Pack of
1L Sterile Receiver Flask	**SC00B10RE**	12/90.80

EMD Millipore™ Replacement Receiver Flasks For Stericup™ Filter Units

Provide a large filter area for rapid sterile filtration of aqueous fluids into narrow-mouth (33mm) or wide-mouth (45mm) bottles

- Sterile polystyrene
- Can be used as receivers for Millipore Steritop™ Vacuum Bottle-Top Filters
- 45mm neck with screw-top lid

APPLICATIONS:
Storage of sterilized or clarified fluids, laboratory filtration

SC00B05RE

Size	Cat. No.	Pack of 12
250mL	**SC00B02RE**	46.70
500mL	**SC00B05RE**	59.40
1000mL	**SC00B10RE**	90.80

EMD Millipore™ Steritop™ Sterile Vacuum Bottle-Top Filters

With large 73mm diameter filter for faster filtration

- Stem cell tested
- 0.22µm pore size
- Graduated polystyrene funnels available in 150, 250, and 500mL capacities to fit 33 and 45mm glass bottle neck sizes
- Recessed funnel threads maintain sterility
- Gamma radiation sterilized
- Without receiver bottles
- Millipore Express™ Plus polyethersulfone (PES) membrane for fast flow and low protein binding (0.1µm PES membrane is also useful for removing mycoplasma)
- Durapore™ polyvinylidene fluoride (PVDF) membrane for lowest protein binding

SCGPS05RE, SCGPS01RE, SCGPS02RE

Pore Size	Membrane	For Neck Size	Cat. No.	Pack of 12
With 150mL Funnel				
0.22µm	PES	33mm	**SCGPS01RE**	78.50
0.22µm	PES	45mm	**SCGPT01RE**	78.50
With 250mL Funnel				
0.22µm	PES	33mm	**SCGPS02RE**	92.30
0.22µm	PES	45mm	**SCGPT02RE**	92.30
With 500mL Funnel				
0.22µm	Millipore Express Plus (PES)	33mm	**SCGPS05RE**	111.40
0.22µm	Millipore Express Plus (PES)	45mm	**SCGPT05RE**	110.30
0.22µm	PVDF	45mm	**SCGVT05RE**	102.90

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

EMD Millipore™ Steriflip™ Sterile Disposable Vacuum Filter Units

Performance and convenience all in one

Attach the Steriflip unit to a 50mL centrifuge tube containing the sample, flip it over, apply vacuum, then collect filtrate in the supplied 50mL centrifuge (filtrate) tube.

- Gamma radiation sterilized
- Choose from PES, PVDF or nylon membranes with a variety of pore sizes
- Use the 0.22µm membranes to sterilize tissue culture media, microbiological media and other biological solutions
- Millipore Express™ polyethersulfone (PES) membrane provides fast flow and low protein binding
- Duropore™ (PVDF) membrane, with very low protein binding, is used for filtration of buffers with DMSO and retrovirus filtration
- Nylon net filter is used for cell suspension and cell separation

SCGP00525

ORDERING INFORMATION: Filter diameter: 40mm

INCLUDES: Filter, graduated 50mL centrifuge tube, tube cap and stand

Pore Size	Membrane Material	Mfr. No.	Cat. No.	Pack of 25
0.22µm	Millipore Express Plus (PES)	SCGP00525	**SCGP00525**	151.66
0.45µm	PVDF	SE1M003M00	**SE1M003M00**	162.20
0.22µm	PVDF	SE1M179M6	**SE1M179M6**	166.10

EMD Millipore™ Nylon-Net Steriflip™ Vacuum Filter Unit

Sterile, disposable filter unit for cell isolation

Steriflip filter units with nylon net allow for the separation of tissue debris from cellular material in tissue homogenates, with the added advantage of ensuring sample sterility and vacuum filtration. This improves recovery and reduces the time to collect the isolated cells. Steriflip is an effective method for separating cell suspension based on the respective pore size of the nylon net while maintaining the sterility of the sample. This is particularly useful for customers working with stem cells, cardiomyocites, neurology and skeletal tissues.

- Complete, sterile unit requires only a single transfer step
- Vacuum port aids with cell isolation and recovery
- Device is used with a standard 50mL centrifuge tube
- Optional 50mL funnel is available to fit with the tube
- Compact stand reduces the bulkiness of the filtration unit
- Four pore sizes provide versatility and allow optimal performance in a variety of applications

SCNY00020

Pore Size	Membrane Material	Cat. No.	Pack of 25
20µm	Nylon Mesh	**SCNY00020**	166.10
40µm	Nylon Net	**SCNY00040**	166.10
60µm	Nylon Mesh	**SCNY00060**	167.70
100µm	Nylon Net	**SCNY00100**	166.10

EMD Millipore™ Stericap™ PLUS Sterile Bottle-Top Filter Device

For ultrafast, aseptic sterilization of 5 to 10L using vacuum filtration

Millipore Express™ PLUS polyethersulfone (PES) membrane is fast flowing, high throughput and low protein binding.

- Noncytotoxic, nonpyrogenic
- Provides fast filtration of even viscous solutions without the need for a prefilter
- Fits wide range of containers
- Can be used to fill any vacuum-rated bottle or other container with inner neck diameter of 20 to 67mm
- Fluid is filtered directly into desired container, eliminating transfer steps and minimizing risk of contamination
- Compact design saves lab space

SCGP CAP RE

APPLICATIONS: Ideal for sterilization of tissue culture media, serum, buffers or other biological solutions.

Specifications	
Filtration Capacity	5-10L (of typical cell culture media)
Filtration Area	40cm^2
Sterilization	Gamma irradiated
Storage Temperature	-30 to +45°C (-22 to +113°F)
Max. Operating Vacuum	25"Hg
Membrane	Millipore Express PLUS, polyethersulfone, 0.22µm
Materials	Dome: clear styrene Tube: silicone Vacuum adapter: high-density polyethylene

Pore Size	Membrane	Cat. No.	Pack of 10
0.22µm	PES	**SCGP CAP RE**	169.20

EMD Millipore™ Sterifil™ 47mm Aseptic Vacuum Filter System and Holder

Closed unit for particulate or biological contamination analysis

- Protects sample and filtrate from environmental contamination
- Capacity: 250mL (funnel and receiver flask)
- Holder and funnel available separately (without receiver flask and cover) to use with standard 1L vacuum filtering flask or multiple-place manifold
- Polysulfone funnel, funnel cover, receiver flask and cover
- Polypropylene holder base and filter support screen
- Silicone stopper and O-ring

XX11 047 00

Description	Cat. No.	Each
Sterifil Aseptic System	**XX11 047 00**	117.70

EMD Millipore™ Sterifil™ 47mm Aseptic Vacuum Filter System Replacement Parts

Used for general filtration applications and filtration of samples for particulate or biological contamination analysis

ORDERING INFORMATION:
The Sterifil holder and funnel available separately (without receiver flask and cover) to use with standard 1L vacuum filtering flask or multiple place manifold.

XX1104702

Description	Capacity	Cat. No.	Each
Funnel, Polysulfone	250mL	**XX11 047 04**	25.95
Receiver Flask	250mL	**XX11 047 05**	33.10
Holder	250mL	**XX11 047 10**	78.10
Filter Holder Base and Support Screen	----	**XX11 047 02**	11.06
Holder	500mL	**XX11 J47 50**	135.70

EMD Millipore™ Millex™-GP$_{50}$ Sterile Filter Unit

Fast filtration with low protein binding

Filter up to 1.05 gal. (4L) of tissue culture media and additives, protein solutions, virus suspensions, DNA and other aqueous solutions.

- Pore size: 0.22µm
- Effective filtration area of 19.6cm2
- Hold-up volume after air purge ≤1000µL
- Pressure limit is 3.5 bar (50psi) and temperature limit is 45°C (113°F)
- Pyrogenicity ≤0.5EU/mL
- Millipore Express™ PLUS PES (surface-modified polyethersulfone) membrane filters quickly and reliably with low protein binding

SLGP 050 10

Outlet Type	Cat. No.	Pack of 10
Filling bell	**SLGP B50 10**	224.00
Stepped hose barb with female Luer slip interior	**SLGP 050 10**	190.20

EMD Millipore™ Sterivex™ Sterile Pressure-Driven Devices

Sterile filtration and clarification of solutions with volumes of 100 to 2000mL

Minimize contamination risk to filtered solution by direct-dispensing design.

- Driven by syringe, peristaltic pump or pressure vessel
- Self-venting prevents air locking that slows filtration
- Ready-to-use units filter solutions with volumes 100 to 2000mL
- Housings made of Eastar™ co-polyester
- Units are 100% integrity tested, individually packaged and radiation sterilized
- With female Luer-Lok™ inlet and male nipple, male Luer-Lok or filling bell outlet
- Millipore Express™ PES (polyethersulfone) membrane — for fast flow, low protein binding sterilization of aqueous solutions
- Durapore™ PVDF membrane — for lowest protein binding sterilization/clarification of biological solutions

Typical Characteristics	
Volume	100–2000mL
Effective Filtration Area	10cm^2
Filter Hold-up Volume (After Air Purge)	≤200µL
Pressure Limit	45psi
Temperature Limit	45°C (113°F)

SVGP B10 10

Pore Size	Fitting Outlet	Cat. No.	Pack of
PES membrane			
0.22µm	Filling bell	**SVGP B10 10**	10/87.90
	Male nipple	**SVGP 010 15**	15/117.80
	Male nipple	**SVGP 010 50**	50/259.50
	Male Luer-Lok	**SVGP L10 RC**	15/136.00
PVDF membrane			
0.22µm	Filling bell	**SVGV B10 10**	10/87.90
	Male nipple	**SVGV 010 15**	15/119.00
	Male nipple	**SVGV 010 RS**	50/259.50
	Male Luer-Lok	**SVGV L10 RC**	15/136.00
0.45µm	Filling bell	**SVHV B10 10**	10/85.35
	Male nipple	**SVHV 010 15**	15/117.80
	Male nipple	**SVHV 010 RS**	50/259.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Millipak™ Disposable Filter Units

Pump-driven filter units designed for the removal of particles and microorganisms from liquids and gases

Unique, stacked-disc design allows minimal hold-up volume and eliminates the particle-generating, woven, downstream support found in pleated cartridges.

- Sterile filtration of parenterals, diagnostics, buffers, media and biologicals
- Point-of-use filter for high-purity water
- Ideally suited for high value-added applications
- Durapore™ PVDF membranes provide high flowrates and throughputs, low extractables, broad chemical compatibility and the lowest protein binding of any membrane available
- Three different stack sizes allow optimum flexibility for easy scale-up and system sizing
- Presterilized units are gamma irradiated
- Autoclavable up to three times
- Each unit is labeled with catalog number, lot number, pore size and serial number
- 100% integrity tested to guarantee integrity

Specifications	
Filter	Millipak
Medium	Durapore PVDF
Applications	Removal of particles and microorganisms from liquids and gases
Filter Area	100, 200, and 300cm^2
Pore Size	0.1, 0.22, and 0.45µm
Housing	Polycarbonate
Max. Inlet Pressure	5.2 bar (75psig) at 25°C
Max. Differential Pressure	Forward: 4.1 bar (60psig) at 25°C; 1.7 (25) at 80°C; 0.35 (5) at 123°C. Reverse: 0.7 bar (10psig) at 25°C.
Bacterial Retention (0.1, 0.22µm)	Quantitative retention of Brevundimonas diminuta (ATCC™ 19146) following ASTM™ F838-83 methodology at a minimum challenge level of 10^7 CFU/cm^2.

Pore Size	Filter Area	Connections	Cat. No.	Pack of
Millipak 20, Presterilized				
0.1µm	100cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPVL 02G H2**	2/114.60
0.22µm	100cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPGL 02G H2**	2/104.10
0.22µm	100cm^2	3/4" sanitary flange inlet and outlet	**MPGL 02G F2**	2/99.30
0.45µm	100cm^2	3/4" sanitary flange inlet and outlet	**MPHL 02G F2**	2/96.90
0.45µm	100cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPHL 02G H2**	2/103.80
Millipak 40, Presterilized				
0.1µm	200cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPVL 04G H2**	2/148.10
0.22µm	200cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPGL 04G H2**	2/136.40
0.22µm	200cm^2	3/4" sanitary flange inlet and outlet	**MPGL 04G F2**	2/135.70
0.22µm	200cm^2	¼" NPTM inlet, /¼" Stepped Hose Barb w/bell outlet	**MPGL 04G K2**	1/213.00
0.45µm	200cm^2	3/4" sanitary flange inlet and outlet	**MPHL 04G F2**	2/126.50
0.45µm	200cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPHL 04G H2**	2/130.80
Millipak 60, Presterilized				
0.1µm	300cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPVL 06G H2**	2/170.70
0.22µm	300cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPGL 06G H2**	2/159.70
0.22µm	300cm^2	3/4" sanitary flange inlet and outlet	**MPGL 06G F2**	2/155.60
0.45µm	300cm^2	1/4" stepped hose barb inlet and outlet with bell	**MPHL 06G H2**	2/154.60
0.45µm	300cm^2	3/4" sanitary flange inlet and outlet	**MPHL 06G F2**	2/152.40
Millipak 60, Nonsterile				
0.22µm	300cm^2	1/4" NPTM inlet; 1/4" stepped hose barb outlet	**MPGL 06C B1**	1/68.50
0.22µm	300cm^2	1 1/2" sanitary flange inlet; 1/4" stepped hose barb outlet	**MPGL 06C L1**	1/65.95
5.0µm, nominal	300cm^2	1/4" NPTM inlet; 1/4" stepped hose barb outlet	**MPSL 06C B1**	1/60.40
5.0µm, nominal	300cm^2	1 1/2" sanitary flange inlet; 1/4" stepped hose barb outlet	**MPSL 06C L1**	1/60.40

EMD Millipore™ Steripak™-GP Sterile Filter Unit

Fast flow and high throughput

Disposable bottle-top filter units designed for larger-scale, pressure-driven filtration of tissue culture media with or without serum.

- Easily connect to vacuum pump or pressure vessel
- Utilize low protein binding, fast-flow Millipore Express™ polyethersulfone (PES) membranes
- Filter up to 20L
- Sterile

INCLUDES:
6mm (0.25") stepped hose barb inlet, 6mm (0.25") stepped hose barb outlet and filling bell.

Volume	Pore Size	Cat. No.	Pack of 3
<10L	0.22µm	**SPGP M10 RJ**	132.60
<20L	0.22µm	**SPGP M20 RJ**	186.90

SPGP M10 RJ

Thermo Scientific™ Nalgene™ MF75™ Series Disposable Sterilization Filter Units With CN Membrane

Triton™-free membranes to avoid cytotoxic effects and enable excellent flowrates

Graduated upper chamber with nonfiber-plugged side arm and quick-disconnect tubing adapter are separate from graduated receiver for easy access to filtrate.

- White 50 and 75mm diameter cellulose nitrate (CN) membranes
- CN general-purpose membrane
- Ergonomic shape
- All-in-one filter
- 75mm diameter membranes yield faster flows
- Top and bottom chambers made of clear polystyrene
- Nonpyrogenic
- Gamma radiation sterilized
- Pore size, membrane type, catalog number, lot number and expiration date are printed on units
- Green color-coded collar (except 115mL sizes)
- All units have a padless support plate to minimize foaming of proteinaceous solutions
- Models 09-740-36K and -36L have low profile design for extra stability

115mL Sizes

- Compact filter units for quick filtration of 50 to 100mL of fluid
- Unitary construction with non-separable upper and receiver components
- Not intended for post-filtration storage of media (use Rapid-Flow products if media storage is required)

ORDERING INFORMATION:
Individually wrapped. Side arm is on receiver of 115mL size. All units have a five-year sterile shelf life.

INCLUDES:
50 or 75mm diameter membrane, polyethylene adapter and quick-disconnect tubing adapter. Each pack of 500 and 1000mL units includes 12 glass fiber prefilters. All sizes except 115mL supplied with sterile polyethylene leakproof closure that lets you use the receiver for filtrate storage.

ALERTS:
Nalgene CN membranes are Triton-free

1000mL CN

Pore Size	Membrane Color/Grid	Mfr. No.	Cat. No.	Case of 12
115mL receiver capacity with 50mm dia. membrane				
0.2µm	White/Plain Grid	121-0020	**09-740-36K**†	148.80
0.45µm	White/Black Grid	121-0045	**09-740-36L**†	148.80
150mL receiver capacity with 50mm dia. membrane				
0.2µm	White/None	125-0020	**09-740-1A**	111.70
0.45µm	White/Black Grid	125-0045	**09-740-1B**	112.90
0.80µm	White/None	125-0080	**09-740-1C**	115.20
250mL receiver capacity with 50mm dia. membrane				
0.2µm	White/None	126-0020	**09-740-2A**	120.60
0.45µm	White/Black Grid	126-0045	**09-740-2B**	120.60
0.8µm	White/None	126-0080	**09-740-2C**	122.30
500mL receiver capacity with 75mm dia. membrane				
0.2µm	White/None	450-0020	**09-740-25A**	198.70
0.45µm	White/Black Grid	450-0045	**09-740-25B**	199.30
0.8µm	White/None	450-0080	**09-740-25AA**	202.50
1000mL receiver capacity with 75mm dia. membrane				
0.2µm	White/None	127-0020	**09-740-3A**	270.50
0.45µm	White/Black Grid	127-0045	**09-740-3B**	274.00
0.8µm	White/None	127-0080	**09-740-3C**	274.00

† 09-740-36K and -36L have low-profile design for extra stability

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nalgene™ MF75™ Series Sterile Disposable Tissue Culture Filter Units With Nylon Membrane

All-in-one units specially designed for cell tissue culture work

- Upper chamber separates from receiver for easy access to filtrate
- 1.5-turn sterile polyethylene leakproof screw closure eliminates pH shift in receiver
- Receiver is an ideal filtrate storage vessel
- Upper chamber of filter unit is clearly marked with pore size, membrane type, catalog number, lot number and expiration date (except 115mL size)
- Padless membrane support minimizes foaming of proteinaceous samples
- Nonpyrogenic
- Units are color-coded
- Gamma radiation sterilized
- Individually wrapped for a five-year sterile shelf life

Nylon Membrane

- Low extractables and naturally hydrophilic
- Contains no wetting agents and is alcohol resistant
- Red collar

115mL Sizes

- Graduated upper chamber only (no collar)
- Expiration date printed in the color code on the side of each unit
- Padless membrane supports not included

INCLUDES:
Polystyrene cover; graduated upper chamber and storage bottle; integral membrane filter; cellulosic-plugged side arm; quick-disconnect tubing adapter.

150mL Nylon

Pore Size	Membrane	Mfr. No.	Cat. No.	Each
150mL, 50mm membrane				
0.2µm	Nylon	150-0020	**09-740-31F**	132.24
0.45µm	Nylon	150-0045	**09-740-31G**	133.09
250mL, 50mm membrane				
0.2µm	Nylon	153-0020	**09-740-24A**	150.71
0.45µm	Nylon	153-0045	**09-740-24B**	151.65
500mL, 75mm membrane				
0.2µm	Nylon	151-4020	**09-740-32**	235.50
0.45µm	Nylon	151-4045	**09-740-32B**	236.06
500mL, 90mm membrane				
0.2µm	Nylon	163-0020	**09-740-45**	302.96
1000mL, 75mm membrane				
0.2µm	Nylon	154-0020	**09-740-26A**[‡]	289.50
0.45µm	Nylon	154-0045	**09-740-26B**[‡]	290.25
1000mL, 90mm membrane				
0.2µm	Nylon	164-0020	**09-740-46**	348.90

[†] *Upper Chamber Capacity 500mL*

Thermo Scientific™ Nalgene™ Rapid-Flow™ Sterile Disposable Filter Units with SFCA Membrane

All-in-one units specially designed for cell tissue culture work

- Nalgene Rapid-Flow membrane support system provides fast flow and high throughput
- Upper chamber separates from storage bottle for easy access to filtrate
- Leakproof[†‡] (except 115 mL size) screw cap eliminates pH shift in storage bottle to provide longer life for stored media
- Upper chamber of filter units is clearly marked with pore size, membrane type, catalog number, lot number and expiration date (except 115 mL size)
- Padless membrane support minimizes foaming of proteinaceous samples
- Non-pyrogenic and non-cytotoxic
- Yellow collar for easy identification of SFCA membrane
- Gamma radiation-sterilized and individually bagged for a 5-year sterile shelf life
- Surfactant-free cellulose acetate membranes (SFCA)
- Low protein binding, excellent flow rates, little or no loss of specific proteins
- No wetting agents to affect sensitive cell culture lines
- Much lower extractables than standard CA membranes makes SFCA a better choice for cell culture

115mL Sizes

- Compact filter units for quick filtration of 50 to 100mL of fluid
- Unitary construction with non-separable upper and lower compartments
- Not intended for post-filtration storage of media (use Rapid-Flow products if media storage is required)

INCLUDES:
Polystyrene cover; graduated upper chamber and storage bottle (except 115mL size); integral membrane filter; cellulosic-plugged side arm; quick disconnect tubing adapter.

150mL SFCA

Capacity (Funnel/Receiver)	Pore Size	Outside Dia. (Membrane)	Mfr. No.	Cat. No.	Case of
115mL/115mL[†]	0.2µm	50mm	122-0020	**09-740-36M**	12/149.40
150mL/150mL	0.2µm	50mm	155-0020	**09-740-28E**	12/111.70
250mL/250mL	0.2µm	50mm	157-0020	**09-740-39A**	12/120.50
500mL/500mL	0.2µm	75mm	156-4020	**09-740-28C**	12/198.50
500mL/1000mL[‡]	0.2µm	75mm	158-0020	**09-740-40A**	12/270.00
500mL/500mL	0.2µm	90mm	162-0020	**09-740-44A**	12/243.50
1000mL/1000mL	0.2µm	90mm	161-0020	**09-740-43A**	12/295.00
115mL/115mL[†]	0.45µm	50mm	122-0045	**09-740-36N**	12/149.50
150mL/150mL	0.45µm	50mm	155-0045	**09-740-28F**	12/113.30
250mL/250mL	0.45µm	50mm	157-0045	**09-740-39B**	12/121.80
500mL/1000mL	0.45µm	50mm	158-0045	**09-740-40B**	12/281.50
500mL/500mL	0.45µm	75mm	156-4045	**09-740-28D**	12/203.50
500mL/500mL	0.45µm	90mm	162-0045	**09-740-44B**	12/249.54
1000mL/1000mL	0.45µm	90mm	161-0045	**09-740-43B**	12/302.00

[†] 115mL sizes do not have Rapid-Flow support plate design
[‡] Upper Chamber Capacity 500mL

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nalgene™ Rapid-Flow™ Sterile Disposable Filter Units with PES Membrane

All-in-one units specially designed for cell tissue culture work

- Filter cup unscrews from storage bottle for easy access to filtrate
- Leakproof (except 115 mL sizes) screw cap closure eliminates pH shift in storage bottle for longer life of stored media
- Upper chamber of filter units is clearly marked with pore size, membrane type, catalog number, lot number and expiration date (except 115 mL size)
- Padless membrane support minimizes foaming of proteinaceous samples
- Non-pyrogenic and non-cytotoxic
- PES membrane with blue collar
- Gamma radiation-sterilized and individually bagged for a 5-year sterile shelf life

Polyethersulfone (PES) Membrane

- PES is the best membrane for cell culture fluids; lowest protein binding to maintain protein balance, lowest extractables to maintain media purity
- Asymmetric PES membrane plus unique Rapid-Flow support plate design provides fast flow and high throughput of fluids for increased filtration efficiency
- 0.2µm units protect against bacterial contamination
- 0.1µm units also protect against mycoplasma contamination

115mL Sizes

- Compact filter units for quick filtration of 50-100mL of fluid
- Unitary construction with non-separable upper and receiver components
- Not intended for post-filtration storage of media (use Rapid-Flow products if media storage is required)

INCLUDES:
Polystyrene cover; graduated upper chamber and storage bottle (except 115 mL size); integral membrane filter; cellulosic-plugged side arm; quick-disconnect tubing adapter.

09-740-63A

Pore Size	Outside Dia.	Capacity (Funnel/Receiver)	Membrane	Mfr. No.	Cat. No.	Case of
0.1µm	50mm	150mL/150mL	PES	565-0010	**09-741-200**	12/88.00
0.1µm	75mm	250mL/250mL	PES	568-0010	**09-741-201**	12/114.50
0.1µm	75mm	500mL/500mL	PES	566-0010	**09-741-202**	12/196.70
0.1µm	90mm	1000mL/1000mL	PES	567-0010	**09-741-203**	12/256.00
0.2µm	50mm	50mL/50mL	PES	564-0020	**09-741-88** ‡	12/87.80
0.2µm	50mm	150mL/115mL†	PES	524-0020	**09-741-00**	72/509.15
0.2µm	50mm	150mL/150mL	PES	565-0020	**09-741-01**	12/90.10
0.2µm	50mm	250mL/250mL	PES	568-0020	**09-741-04**	12/116.70
0.2µm	75mm	500mL/500mL	PES	566-0020	**09-741-02**	12/192.11
0.2µm	90mm	500mL/500mL	PES	569-0020	**09-741-05**	12/195.80
0.2µm	90mm	1000m/1000mL	PES	567-020	**09-741-03**	12/260.86
0.45µm	50mm	115mL/115mL†	PES	124-0045	**09-740-65B**	12/133.00
0.45µm	50mm	150mL/150mL	PES	165-0045	**09-740-63A**	12/91.90
0.45µm	50mm	250mL/250mL	PES	168-0045	**09-740-63D**	12/119.60
0.45µm	75mm	500mL/500mL	PES	166-0045	**09-740-63B**	12/199.00
0.45µm	90mm	500mL/500mL	PES	169-0045	**09-740-63E**	12/212.88
0.45µm	90mm	1000mL/1000mL	PES	167-0045	**09-740-63C**	12/269.00

† *115mL sizes do not have Rapid-Flow support plate design*
‡ *50ml sterile conical tube filter unit*

Thermo Scientific™ Nalgene™ Rapid-Flow™ Sterile Disposable Bottle Top Filters with SFCA Membrane

Allow direct filtration into sterile glass media bottles

09-740-22H, -22J to -22L

- Nalgene Rapid-Flow membrane support system provides fast flow and high throughput
- Filters marked with catalog number, membrane type and pore size, lot number and expiration date for easy traceability
- Gamma radiation sterilized and individually bagged for 5-year sterile shelf life
- Molded-in graduations for quick visualization of sample volume
- Side-arm with quick-disconnect tubing adapter for easy bottle top changes
- Non-cytotoxic and non-pyrogenic

Surfactant-free cellulose acetate membranes (SFCA)

- Low protein binding, excellent flow rates, little or no loss of specific proteins
- No wetting agents to affect sensitive cell culture lines
- Much lower extractables than standard CA membranes makes SFCA a better choice for cell culture

INCLUDES:
Polystyrene graduated chamber; color-coded collar with cellulosic vent plug side arm and quick-disconnect tubing adapter; 50, 75 or 90mm diameter membranes; bottom screw threads for attachment to bottles with 33 or 45mm neck sizes.

Pore Size	Membrane	Thread Size	Mfr. No.	Cat. No.	Case of 12
150mL capacity, 50mm membrane					
0.2µm	SFCA	33mm	290-3320	**09-740-22D**	87.70
0.2µm	SFCA	45mm	290-4520	**09-740-22F**	87.70
0.45µm	SFCA	33mm	290-3345	**09-740-22E**	87.70
0.45µm	SFCA	45mm	290-4545	**09-740-22G**	87.70
500mL capacity, 75mm membrane					
0.2µm	SFCA	33mm	291-3320	**09-740-22H**	122.60
0.2µm	SFCA	45mm	291-4520	**09-740-22K**	122.60
0.45µm	SFCA	33mm	291-3345	**09-740-22J**	122.60
0.45µm	SFCA	45mm	291-4545	**09-740-22L**	122.60
1000mL capacity, 90mm membrane					
0.2µm	SFCA	33mm	292-3320	**09-740-47A**	195.40
0.2µm	SFCA	45mm	292-4520	**09-740-47C**	195.40

Thermo Scientific™ Nalgene™ Rapid-Flow™ Sterile Disposable Bottle Top Filters with PES Membrane

Allow direct filtration into sterile glass media bottles

09-740-64A, -64B

- Filters marked with catalog number, membrane type and pore size, lot number and expiration date for easy traceability
- Gamma radiation sterilized and individually bagged for a 5-year sterile shelf life
- Molded-in graduations for easy visualization of sample size
- Side-arm with quick-disconnect tubing adapter for easy change between filters
- Use with Nalgene storage bottles with catalog numbers starting with 455- or glass bottles rated for vacuum
- Non-cytotoxic and non-pyrogenic

Polyethersulfone (PES) membranes

- PES is the best membrane for cell culture fluids; lowest protein binding to maintain protein balance, lowest extractables to maintain media purity
- Asymmetric PES membrane plus unique Rapid-Flow support plate design provide fast flow and high throughput of fluids for increased filtration efficiency
- Use 0.2 µm membranes for sterile filtration, 0.45 µm membranes for fluid clarification and particle removal

INCLUDES: Polystyrene graduated chamber; blue color-coded collar with cellulosic vent plug side arm and quick-disconnect tubing adapter; 50, 75 or 90 mm diameter membranes; bottom screw threads for attachment to bottles with 33 or 45 mm neck sizes.

ALERTS: Use only sterile bottles designed for use with vacuum. Always use safety shield during vacuum procedures.

Pore Size	Membrane	Thread Size	Mfr. No.	Cat. No.	Case of 12
150mL capacity, 50mm membrane					
0.2µm	PES	33mm	596-3320	**09-741-08**	85.90
0.2µm	PES	45mm	596-4520	**09-741-09**	86.20
0.45µm	PES	33mm	296-3345	**09-740-62C**	86.50
0.45µm	PES	45mm	296-4545	**09-740-62D**	86.50
500mL capacity, 75mm membrane					
0.2µm	PES	33mm	595-3320	**09-741-06**	118.22
0.2µm	PES	45mm	595-4520	**09-741-07**	120.40
0.45µm	PES	33mm	295-3345	**09-740-64A**	120.40
0.45µm	PES	45mm	295-4545	**09-740-64B**	120.40
1000mL capacity, 90mm membrane					
0.2µm	PES	33mm	597-3320	**09-741-10**	191.30
0.2µm	PES	45mm	597-4520	**09-741-11**	191.30

Thermo Scientific™ Nalgene™ Rapid-Flow™ Sterile Filter Storage Bottles

Easy-to-use, ergonomic design

- Headspace allows for extra serum or other additives to be added to the filtrate
- Leakproof screw caps to eliminate pH shift in bottle for longer life of stored media

09-740 Series

- Sterilized by gamma radiation and individually bagged for a 5-year sterile shelf life
- Non-pyrogenic and non-cytotoxic

Receiver Capacity	Mfr. No.	Cat. No.	Case of
150mL	455-0150	**09-740-25D**	24/92.70
250mL	455-0250	**09-740-25E**	24/104.20
500mL	455-0500	**09-740-25C**	12/67.20
1000mL	455-1000	**09-740-25F**	12/102.30

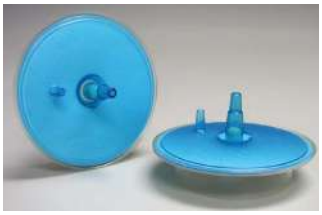
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Nalgene™ Large-Volume FastCap™ Bottle Top Filter with 0.2m PES membrane

Universal filter and easy-to-use

- Blue, polystyrene housing
- PES membrane for fast flow and high throughput
- Fits bottle necks up to 53mm diameter
- Filter up to 5L



09-740-68A

Description	Mfr. No.	Cat. No.	Each
Large-Volume Bottle Top Filter	298-9020	**09-740-68A**	206.00

Thermo Scientific™ Nalgene™ Reusable Filter Holders with Receiver

Versatile system is ideal for field work

- Graduated receiver to allow easy visualization of sample volume
- Two side arms allow connection to vacuum line
- Accepts 0.25 to 0.3125" I.D. (6.4 to 8mm) vacuum tubing
- Also accepts syringe filters
- Fully autoclavable, with or without membranes in place
- Upper chamber is designed for pressure or vacuum filtration
- Independent locking rings seal upper chamber to receiver without damaging membrane to ensure efficient filtration
- Chamber accommodates 47 or 50mm membranes (not included) and has three ports for venting (with or without syringe filters) and aseptic addition of samples
- Ports also can be attached to a pressure source
- Upper chamber is supplied with two membrane support plates: a sterilization plate and an analytical plate

Left to right:
09-740-23E, -23A, -23D

Sterilization plate (one-piece, clear)

- Provides maximum flowrate and throughput
- Suitable for cold sterilization or clarification of culture media, reagents or solvents that are compatible with holder and membrane materials
- Nominal filter area, 13.3cm^2

Analytical plate (two-piece, white)

- Provides optimal membrane support and keeps membrane flat to facilitate analytical procedures
- Suitable for analysis of particulates and biological contaminants, or any microbiological analyses using the membrane filter technique
- Nominal filter area, 11.3cm^2

INCLUDES:
Complete upper chamber, receiver, polypropylene cover and TPE port caps. (Membranes not included.)

Upper Chamber Capacity	Receiver	Mfr. No.	Cat. No.	Each	Case of 4
250mL	250mL	300-4000	**09-740-23A**	198.00	496.50
500mL	500mL	300-4050	**09-740-23D**	295.00	739.50
500mL	1000mL	300-4100	**09-740-23E**	384.00	962.50

Corning™ Disposable Sterile Filter Systems

Secure handling, easy-grip sides, stable profile minimize risk of tipping

Receiver easily unscrews from unit and can be sealed with a plug cap for filtrate storage.

- Radiation sterilized and certified nonpyrogenic
- Angled hose connector simplifies vacuum line attachment
- Receiver bottles feature easy-grip sides for improved handling
- Units are color-coded by membrane type and labeled with both membrane material and pore size
- All membrane types are tissue culture compatible, and heat-sealed to the support grid to maximize flowrate and reduce foaming and protein denaturization
- NYL, CN and PES membranes are detergent-free
- Ideal for filtration of tissue culture media and components, biological fluids and other solutions
- Models with 150mL funnel contain 42 × 42mm square membrane filter, 250mL funnel contains 49.5 × 49.5mm square membrane filter, 500mL funnel contains 63 × 63mm square membrane filter and 1000mL funnel contains 79 × 79mm square membrane filter

09-761 Series

Membrane Types

- Cellulose acetate (CA) — For low protein binding
- Nylon (NYL) — For low extractables
- Cellulose nitrate (CN) — For general-purpose filtration
- Polyethersulfone (PES) — For fast flowrates and low protein binding

INCLUDES: Square membrane filter, graduated funnel and receiver of clear polystyrene; polyethylene neck adapter and plug cap (supplied sterile and individually packaged).

NOTES: Not for parenteral use.

Pore Size	Membrane	Mfr. No.	Cat. No.	Case of 12
150mL Funnel, 150mL Receiver				
0.22µm	CA	431154	**09-761-119**	101.40
0.22µm	PES	431153	**09-761-118**	98.24
0.45µm	CA	431155	**09-761-120**	104.00
250mL Funnel, 250mL Receiver				
0.20µm	NYL	430771	**09-761-2**	118.60
0.22µm	CA	430767	**09-761-1**	109.96
0.22µm	CN	430756	**09-761-100**	106.29
0.22µm	PES	431096	**09-761-106**	111.19
0.45µm	CA	430768	**09-761-3**	110.27
500mL Funnel, 500mL Receiver				
0.20µm	NYL	430773	**09-761-8**	203.50
0.22µm	CA	430769	**09-761-5**	191.88
0.22µm	CN	430758	**09-761-102**	190.16
0.22µm	PES	431097	**09-761-107**	185.68
0.45µm	CA	430770	**09-761-7**	186.89
500mL Funnel, 1000mL Receiver				
0.22µm	CA	431205	**09-761-141**	248.14
0.45µm	CA	431206	**09-761-142**	256.00
1000mL Funnel, 1000mL Receiver				
0.20µm	NYL	430515	**09-761-42**	289.93
0.22µm	CA	430517	**09-761-40**	283.81
0.22µm	CN	430186	**09-761-104**	280.25
0.22µm	PES	431098	**09-761-108**	276.16
0.45µm	CA	430516	**09-761-41**	276.16

Corning™ Disposable Sterile Bottle-Top Filters

Vacuum filtration units fit standard threaded bottle tops

Designed for use on glass or polystyrene media bottles.

09-761 Series Funnels

- Attach to most popular 33 and 45mm diameter bottles with standard GPI threads
- Systems are individually packaged, gamma radiation-sterilized and certified nonpyrogenic
- Color coded by membrane type and labeled as to both membrane material and pore size
- Choice of membrane media: cellulose acetate (CA) for low protein binding; nylon (NYL) for low extractables; or polyethersulfone (PES) for fast flowrates and low protein binding
- Tissue culture compatible
- Heat-sealed to the support grid to maximize flowrate and reduce foaming and protein denaturization

APPLICATIONS: Ideal for filtration of tissue culture media and components, biological fluids, other solutions.

ORDERING INFORMATION: Units with 150mL funnels contain 42 × 42mm square membrane filters; 500mL funnels contain 63 × 63mm square membrane filters, 250mL funnels contain 49.5 × 49.5mm square membrane filters, and 1L funnels contain 79 × 79mm square membrane filters.

INCLUDES: Square membrane filter, graduated funnel of clear polystyrene with polyethylene neck adapter and tubing adapter that fits most vacuum hoses.

NOTES: Not for parenteral use.

Pore Size	Membrane	Thread Size	Mfr. No.	Cat. No.	Case of
150mL Funnel					
0.22µm	CA	33mm	430624	**09-761-49**	48/338.00
0.22µm	CA	45mm	430626	**09-761-56**	48/326.62
0.22µm	PES	33mm	431160	**09-761-125**	48/329.50
0.22µm	PES	45mm	431161	**09-761-126**	48/318.47
0.45µm	CA	33mm	430625	**09-761-55**	48/338.00
0.45µm	CA	45mm	430627	**09-761-57**	48/338.00
500mL Funnel					
0.20µm	NYL	45mm	430049	**09-761-147**	12/131.66
0.22µm	CA	33mm	430521	**09-761-50**	12/120.40
0.22µm	CA	45mm	430513	**09-761-52**	12/116.89
0.22µm	PES	33mm	431117	**09-761-111**	12/117.50
0.22µm	PES	45mm	431118	**09-761-112**	12/113.52
0.45µm	CA	33mm	430512	**09-761-51**	12/121.00
0.45µm	CA	45mm	430514	**09-761-53**	12/120.40
1000mL Funnel					
0.22µm	CA	45mm	430015	**09-761-38**	12/188.42
0.22µm	PES	45mm	431174	**09-761-139**	12/182.92

Corning™ Disposable Sterile Bottles

Use as replacement receivers for Corning Disposable Sterile Filter Systems or as storage bottles

- Durable polystyrene bottles
- Neck size: 45mm
- Easy-to-read graduations
- With sterile caps

09-761-4, -140, -11, -10

Capacity	Grad. Range/Interval	Mfr. No.	Cat. No.	Case of 24
150mL	25 to 150mL/25mL	431175	**09-761-140**	89.91
250mL	50 to 250mL/25mL	430281	**09-761-4**	97.28
500mL	100 to 500mL/50mL	430282	**09-761-10**	131.30
1000mL	100 to 1000mL/50mL	430518	**09-761-11**	189.85

Costar™ Disposable Storage Bottles

Ideal for storing media, buffers and other aqueous solutions

- Medical-grade polystyrene bottles
- With 45mm neck
- Sterile
- Nonpyrogenic
- Individually wrapped with phenolic cap

07-200-420

Capacity	Mfr. No.	Cat. No.	Case of
125mL	8388	**07-200-420**	24/98.82
250mL	8390	**07-200-446**	12/63.25
500mL	8393	**07-200-448**	12/73.08
1000mL	8396	**07-200-450**	12/102.71

Corning™ Mini-Miser Filter-Top Tube

Viewing slot in base lets you measure volumes as small as 5mL

Saves time and minimizes costs and error by letting you filter samples directly into a centrifuge tube.

- Sterile 150mL funnel with filter membrane attached to a 50mL centrifuge tube
- Eliminates open-air liquid transfer step and extra storage vessels
- Smaller volumes mean less media waste
- Funnel is made of clear polystyrene
- Centrifuge tube is polypropylene with easy-to-read graduations
- Filter membranes are low protein binding cellulose acetate
- Side arm fitting permits use with differential pressure of 5 to 10psi

09-761-34

INCLUDES:
Sterile plug-seal cap to maintain sterility after filtering and two reusable stands with each case.

Pore Size	Mfr. No.	Cat. No.	Case of 12
0.22µm	430320	**09-761-34**	86.31
0.45µm	430314	**09-761-35**	88.47

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sartorius™ Sartolab™ RF/BT Vacuum Filtration Units

Disposable sterile filter systems

14-555-998

Sartolab RF/BT is a new product line of disposable vacuum filtration units. The Sartolab Receiver Flask (RF) and Bottle Top (BT) units contain a high-quality Sartorius PES membrane and combine highest flow-rates and throughput with extremely low protein binding and extractables. They are therefore the product of choice for filtration of tissue culture media, buffers, additives and other aqueous biologicals. Sartolab RF and BT vacuum units are available as 150mL, 250mL, 500mL and 1000mL units and are standardly equipped with 90mm membranes in the 500mL and 1000mL units.

- Quality and reliability
- Low protein binding
- Fast flow and high throughput
- Easy to use

Description	Mfr. No.	Cat. No.	Pack of
RF 1000; 1000mL; Filter area: 62cm²; 12/cs.	180C3----------E	**14-555-995**	12/307.50
RF 250; 250mL; Filter area: 24cm²; 12/cs.	180C7----------E	**14-555-999**	12/131.90
BT 1000; 1000mL; Filter area: 62cm²; 12/cs.	180C6----------E	**14-555-998**	12/230.50
BT 150; 150mL; Filter area: 18cm²; 48/cs.	180C4----------K	**14-555-996**	48/360.50
RF 500; 500mL; Filter area: 39cm²; 12/cs.	180C2----------E	**14-555-994**	12/212.00
RF 150; 150mL; Filter area: 18cm²; 12/cs.	180C1----------E	**14-555-993**	12/125.50
BT 500; 500mL; Filter area: 39cm²; 12/cs.	180C5----------E	**14-555-997**	12/137.70

Capsules/Inline Filters

EMD Millipore™ Groundwater Sampling Capsules

Large surface area and high-throughput membrane

GWSC 045 01 and GWSC 100 01

Ensures that the capsules filter faster, more efficiently and require fewer change-outs than other filters

- Disposable collection filters for sampling groundwater prior to dissolved metals analysis
- Low-extractable materials minimize background in sample analysis
- Ready to use with membrane filter in place — there is nothing to assemble or clean up
- 600cm² pleated membrane filter
- Unique pore structure enhances the filter's flow mechanics

Choose from three pore sizes

- 0.45µm samples relatively clean water
- 1.0µm samples normal particulate loads
- 5.0µm samples water with very high particulate levels

INCLUDES:
Certificate showing lowest detectable level (LDL) analyses for a broad range of metals.

COMPLIANCE:
Certified for 67 metals and 2 anions; meet U.S. EPA filtration requirements for 0.45µm filtration.

Specifications	
Effective Filtration Area	600cm²
Inlet/Outlet Connections	1/8" NPTM with 3/8" stepped hose adapter
Maximum Inlet Pressure	60psi
Sterilization	Nonsterile
Autoclavable	Yes

Pore Size	Cat. No.	Pack of
0.45µm	**GWSC 045 01**	1/38.40
0.45µm	**GWSC 045 10**	10/332.00
0.45µm	**GWSC 045 50**	50/1444.00
1.0µm	**GWSC 100 01**	1/37.35
1.0µm	**GWSC 100 10**	10/318.00
5.0µm	**GWSC 500 01**	1/37.35

EMD Millipore™ Millex™ Filter Units

Protect vacuum sources from contamination and moisture damage

- With hydrophobic PTFE membranes
- Polypropylene housing (except for SLFG-025-LS and -50, which have PVC housing)
- Variety of inlet/outlet combinations, including stepped hose barb and 1/8 NPT
- Nonsterile, autoclavable, bidirectional

SLFG 850 10 and SLFG 025 LS

APPLICATIONS:

- Protect vacuum sources from contamination and moisture damage
- Sterilize ambient air entering fermenters
- Filter incubator gas to protect against contamination
- Filter nitrogen and air used to dry liquid samples

Pore Size	Diameter	Cat. No.	Pack of
Inlet and outlet: Stepped hose barb with female Luer slip interior. For latex tubing.			
0.22µm	50mm	**SLFG 050 10**	10/130.40
0.22µm	50mm	**SLFG 050 00**	100/878.00
0.45µm	50mm	**SLFH 050 10**	10/130.40
0.45µm	50mm	**SLFH 050 00**	100/875.50
1.0µm	50mm	**SLFA 050 10**	10/133.60
1.0µm	50mm	**SLFA 050 00**	100/907.00
Inlet and outlet: Stepped hose barb with female Luer slip interior. For silicone tubing.			
0.2µm	50mm	**SLFG 850 10**	10/130.40
0.2µm	50mm	**SLFG 850 00**	100/883.50
Inlet: Stepped hose barb with female Luer slip interior. Outlet: 1/8 NPT.			
0.2µm	50mm	**SLFG 650 10**	10/130.40
Inlet and outlet: 1/8 NPT.			
0.2µm	50mm	**SLFG 750 10**	10/130.40
Inlet: Female Luer-Lok; Outlet: Male Luer Slip			
0.22µm	25mm	**SLFG 025 LS**	50/183.20
0.22µm	25mm	**SLFG 025 50**	50/198.70

EMD Millipore™ Aervent-50 Disposable Filters

Sterilizing-grade filters designed for critical small-scale gas line and air venting applications

- 50mm PTFE membrane
- Hydrophobic
- High flowrates and throughput, low extractables, low particle shedding
- Broad chemical compatibility
- Bidirectionally supported polypropylene casing
- Marked with catalog and lot numbers for traceability and easy identification
- Integrity tested
- Autoclavable

MTGR Series

APPLICATIONS:
Sterile venting of vessels and carboys, autoclave vacuum break lines, low volume sterile filtration of non-aqueous fluids, small fermenter inlet and exhaust gas filtration

Typical Characteristics	
Filter	Aervent-50
Medium	PTFE: hydrophobic, bidirectional
Applications	For critical small-scale gas line and air venting
Diameter	62mm
Filter Area	19.6cm^2
Pore Size	0.2µm
Housing	Polypropylene
Pressure Limit	4.1 bar (60psig) at 25°C
Bacterial Retention	Quantitative retention of Brevundimonas diminuta (ATCC™ 19146) following ASTM™ F838-83 methodology at a minimum challenge level of 10^7 CFU/cm^2

Connections, Inlet/Outlet	Length	Cat. No.	Pack of 10	Cat. No.	Pack of 100
Both sides: hose connection for 4 to 9.5mm I.D. latex tubing and female Luer slip	7.1cm	**MTGR 05010**	124.20	**MTGR 05000**	1057.00
Both sides: 0.75" (18mm) sanitary flange (TC)	5.5cm	**MTGR 15010**	128.10	**MTGR 15000**	1062.00
One side: 3mm NPTM connection. Other side: hose connection for 6.5 to 9.5mm I.D. silicone tubing	5.4cm	**MTGR 65010**	123.80	**MTGR 65000**	1034.00
Both sides: 1/8" (3mm) NPTM connection	5.7cm	**MTGR 75010**	123.80	----	----
Both sides: hose connection for 6.5 to 9.5mm I.D. silicone tubing	7.2cm	**MTGR 85010**	124.20	**MTGR 85000**	1034.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sartolab™ P20 Filter Systems

The new way for reliable sterile filtration of cell culture media

14-555-987

Ready-to-use units which, attached to a membrane pump or tube pump, quickly and reliably sterilize 100mL to 5L of media and aqueous solutions. The combination of a large filtration area (20 cm²) and an automatic de-aeration ensures high flow rates and optimal total throughputs. Automatic venting of any trapped air through the PTFE membrane-protected vent ports ensures that the entire filter surface is used for effective filtration. Sartolab P20 units have an extraordinarily favorable price-performance ratio. Often, the total filterable volume can even be doubled due to an integrated binder-free glass fiber prefilter.

- Fast Filtration — large filtration area (20cm²)
- Economic — excellent price/performance ratio
- Security — every batch rigorously tested (sterility and integrity)

Description	Mfr. No.	Cat. No.	Pack of 10
Sartolab-P20; PES; 0.2µm; sterile; luer lock inlet to hose nipple; 10/pk	18075---------D	**14-555-991**	91.60
Sartolab-P20plus; PES; 0.2µm; sterile; luer lock inlet to hose nipple w/ bell; 10/pk	18068---------D	**14-555-990**	123.90
Sartolab-P20plus; CA+GF; 0.2µm; sterile; luer lock inlet to hose nipple w/ bell; 10/pk	18058---------D	**14-555-989**	123.90
Sartolab-P20; CA; 0.2µm; sterile; luer lock inlet to hose nipple w/ bell; 10/pk	18053---------D	**14-555-987**	92.30
Sartolab-P20; CA; 0.2µm; sterile; hose nipple to hose nipple w/ bell; 10/pk	18052---------D	**14-555-986**	92.40
Sartolab-P20plus; CA+GF; 0.2µm; sterile; hose nipple to hose nipple w/ bell; 10pc	18056---------D	**14-555-988**	125.70

Whatman™ Polycap™ TC High-Capacity Capsules

Developed for safe, efficient filtration of critical biological and tissue culture solutions

Contain two layers of polyethersulfone membrane — inherently hydrophilic, low in extractables, excellent flowrates. Low protein-binding characteristics make capsules ideal for use with biologically sensitive solutions.

05713 Series

- Pore size 0.8/0.2µm
- Filtration area: 440, 930 or 1900cm²
- Vent evacuates any air for fast filtration
- Outlet is protected to prevent touch contamination during setup
- Standard hose barb connections
- Durable polypropylene filter housing can withstand maximum operating pressure of 4.1 bar (60psi)
- Presterilized ISO-driven cleanroom manufacturing ensures product consistency
- Stamped lot numbers ensure traceability of all critical components

APPLICATIONS:
Suitable for pharmaceutical aqueous solutions, tissue culture media, reagent preparation, virus suspensions, particle counting solutions, cleaning and rinsing solutions.

COMPLIANCE:
Pass HIMA Challenge Test for Sterilizing Grade Filters to retain >10^7CFU/cm² Brevundimonas diminuta per ASTM™ 838-83 and FDA guidelines; microbial retention correlated to 100% integrity testing during manufacturing.

Filtration Area	Inlet Connection	Outlet Connection	Mfr. No.	Cat. No.	Each
440cm²	1/4 to 1/8" stepped barb	1/4 to 1/8" stepped barb	6715-3682	**05713750**	90.40
930cm²	1/4 to 1/8" stepped barb	1/4 to 1/8" stepped barb	6715-7582	**05713751**	145.20
1900cm²	3/8 to 1/2" stepped barb	1/4 to 1/8" stepped barb	6718-9582	**05713752**	155.40

Whatman™ Polydisc™ Inline Filters

Versatile, cost-effective filters designed for larger volume sample filtration

09-744-66

- Filter up to 1L with one device
- Can be used in conjunction with a syringe or connected inline (6-10mm I.D. hose) via stepped hose barbs
- High-purity polypropylene housing maintains sample purity
- 50mm filter devices
- Autoclavable
- Lightweight (11.5g)

Polydisc AS (Aqueous Solution)

- For tissue culture media, reagent preparation, particle counting solutions, pharmaceutical preparations
- High-throughput polyethersulfone membrane (low protein binding and no surfactants)
- Glass microfiber prefilter extends membrane life and effectively filters heavily contaminated samples
- Sterility cap on outlet (optional)
- No EtO residuals
- Barbed hose connections fit multiple tubing sizes
- Integrity testable (bubble point method)
- Sealed in its own "medical grade" clear blister pack and secured in a protective shelf pack

Polydisc TF

- Use in vents, inline, exhausts for growth environments, clean or sterile gases, solvents, reagents, drying gases, photoresists
- Hydrophobic PTFE membrane ideal for chemically aggressive solutions, reagents and organic solvents
- Chemical-resistant housing
- Integrity testable (bubble point or water breakthrough pressure in situ methods)
- Biosafe

Description	Filter Membrane	Pore Size	Mfr. No.	Cat. No.	Pack of
Polydisc AS	PES	0.45µm	6724-5145	**09-733-06**	50/553.52
Polydisc TF	PTFE	0.2µm	6720-5002	**09-744-66**	10/173.60
Polydisc TF	PTFE	1.0µm	6721-5010	**09-744-72**	10/175.20

Whatman™ Polycap™ Disposable Capsules

Choose from five filter types for a wide variety of filtration applications

- Integrity testable
- With inlet vent (excluding TF models)
- HD and SPF models have retention (with air purge): <2mL
- TC and AS models are sterile, nonpyrogenic
- Filling bell model (09-744-61) minimizes contamination when filtering into bottle or flask

09-744-7

Capsule No.	Pore Size	Filtration Area	Capacity Range	Inlet Connection	Outlet Connection	Mfr. No.	Cat. No.	Each
Whatman Polycap Disposable Capsules, 36 TF, 75 TF and 150 TF								
36 TF	0.1µm	500cm²	1 to 10L	with MNPT inlet	With SB outlet	6711-3601	**09-743-102**	109.20
36 TF	0.2µm	500cm²	1 to 10L	with SB inlet	with SB outlet	6700-3602	**09-744-1**	110.10
36 TF	0.2µm	500cm²	1 to 10L	with MNPT inlet	With SB outlet	6711-3602	**09-743-103**	109.20
36 TF	0.45µm	500cm²	1 to 10L	with MNPT inlet	With SB outlet	6711 3604	**09-743-104**	109.70
36 TF	1.0µm	500cm²	1 to 10L	with SB inlet	with SB outlet	6700-3610	**09-744-4**	109.20
75 TF	0.1µm	1000cm²	5 to 25L	with SB inlet	with SB outlet	6700-7501	**09-744-7**	143.90
75 TF	0.2µm	1000cm²	5 to 25L	with SB inlet	with SB outlet	6700-7502	**09-744-8**	142.70
75 TF	0.2µm	1000cm²	5 to 25L	with 1/2 SB inlet	with 1/2 SB outlet	6710-7502	**09-743-100**	143.30
75 TF	0.2µm	1000cm²	5 to 25L	with MNPT inlet	With SB outlet	6711-7502	**09-743-106**	143.30
75 TF	0.45µm	1000cm²	5 to 25L	with SB inlet	with SB outlet	6700-7504	**09-744-9**	143.30
75 TF	1.0µm	1000cm²	5 to 25L	1/2 SB inlet	1/2 SB outlet	6701-7510	**09-744-10**	142.70
Whatman Polycap HD Disposable Capsules, HD 36 and HD 75								
36 HD	1.0µm	385cm²	1 to 10L	1/4-3/8" hose barb†	1/4-3/8" hose barb†	6703-3610	**09-744-18**	67.40
36 HD	5.0µm	385cm²	1 to 10L	1/4-3/8" hose barb†	1/4-3/8" hose barb†	6703-3650	**09-744-25**	67.40
36 HD	10.0µm	385cm²	1 to 10L	1/4-3/8" hose barb†	1/4-3/8" hose barb†	6703-3611	**09-744-19**	66.90
36 HD	20.0µm	385cm²	1 to 10L	1/4-3/8" hose barb†	1/4-3/8" hose barb†	6703-3621	**09-744-22**	67.40
75 HD	1.0µm	805cm²	5 to 25L	3/8" hose barb	3/8" hose barb	6703-7510	**09-744-28**	94.50
75 HD	5.0µm	805cm²	5 to 25L	3/8" hose barb	3/8" hose barb	6703-7550	**09-744-34**	95.30
75 HD	10.0µm	805cm²	5 to 25L	3/8" hose barb	3/8" hose barb	6703-7511	**09-744-29**	95.30
75 HD	20.00µm	805cm²	5 to 25L	3/8" hose barb	3/8" hose barb	6703-7521	**09-744-30**	95.30
Whatman Polycap Disposable Capsules, 36 SPF and 75 SPF								
36 SPF	1.0µm	260cm²	1 to 10L	1/4-3/8" hose barb†	1/4-3/8" hose barb†	6705-3600	**09-744-45**	84.90
75 SPF	1.0µm	535cm²	5 to 25L	1/4-3/8" hose barb†	1/4-3/8" hose barb†	6705-7500	**09-744-53**	110.90
Whatman Polycap Disposable Capsules, 36 TC, 75 TC and 150 TC								
36 TC	1.0/1.0µm	440cm²	----	1/4-3/8" with SB inlet barb†	1/4-3/8" SB outlet plus filling bell barb	6715-3601	**09-747-8**	103.10
36 TC	0.2/0.2µm	440cm²	----	1/4-3/8" SB inlet and outlet barb†	1/4-3/8" SB inlet and outlet barb	6714-3602	**09-747-2**	97.40
36 TC	0.2/0.2µm	440cm²	----	1/4-3/8" SB inlet and outlet barb†	1/4-3/8" SB inlet and outlet barb	6715-3602	**09-747-9**	102.70
36 TC	0.6/0.45µm	440cm²	----	1/4-3/8" SB inlet barb†	1/4-3/8" SB outlet barb	6714-3604	**09-747-3**	97.40
36 TC	0.6/0.45µm	440cm²	----	1/4-3/8" SB inlet barb†	1/4-3/8" SB outlet plus filling bell barb	6715-3604	**09-747-10**	101.70
75 TC	0.2/0.1µm	930cm²	----	1/4-3/8" SB inlet barb†	1/4-3/8" SB outlet barb	6714-7501	**09-747-5**	149.41
75 TC	0.2/0.2µm	930cm²	----	1/4-3/8" SB inlet barb†	1/4-3/8" outlet plus filling bell barb	6715-7502	**09-747-12**	155.40
75 TC	0.6/0.45µm	930cm²	----	3/8-1/2" with 1/2 SB inlet barb	3/8-1/2" with 1/2 SB inlet and outlet barb	6717-7504	**09-747-15**	154.50
75 TC	0.2/0.1µm	930cm²	----	3/8-1/2" 1/2 SB inlet and outlet barb	3/8-1/2" 1/2 SB inlet and outlet barb	6717-7510	**09-747-16**	153.90
150 TC	0.2/0.2µm	1900cm²	----	3/8-1/2" 1/2 SB inlet and outlet barb	3/8-1/2" 1/2 SB inlet and outlet barb	6717-9502	**09-747-18**	321.00
150 TC	0.2/0.2µm	1900cm²	----	3/8-1/2" 1/2 SB inlet and outlet barb	1/4-3/8" 1/2 SB inlet and outlet barb	6718-9502	**09-747-22**	199.20
150 TC	0.6/0.45µm	1900cm²	----	3/8-1/2" 1/2 SB inlet and outlet barb	3/8-1/2" 1/2 SB inlet and outlet barb	6717-9504	**09-747-19**	192.80

†Inner taper accepts male Luer'

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Whatman™ Polycap™ Disposable Capsules, 36 AS, 75 AS and 150 AS

Capsule No.	Pore Size	Filtration Area	Capacity Range	Inlet Connection	Outlet Connection	Mfr. No.	Cat. No.	Each
36 AS	0.2µm	400cm²	1 to 10L	With SB inlet	With SB outlet	6705-3602	**09-744-47**	69.00
36 AS	0.2µm	400cm²	1 to 10L	With SB inlet	With SB outlet plus filling bell	6706-3602	**09-744-61**	75.60
36 AS	0.2µm	400cm²	1 to 10L	With 1/2 SB inlet	With 1/2 SB outlet	6708-3602	**09-743-90**	69.60
36 AS	0.2µm	400cm²	1 to 10L	With MNPT inlet	SB outlet	6709-3602	**09-743-94**	69.40
36 AS	0.45µm	400cm²	1 to 10L	With SB inlet	With SB outlet	6705-3604	**09-744-48**	69.00
75 AS	0.2µm	820cm²	5 to 25L	With SB inlet	With SB outlet	6705-7502	**09-744-55**	97.40
75 AS	0.2µm	820cm²	5 to 25L	With SB inlet	With SB outlet plus filling bell	6706-7502	**09-744-62**	105.90
75 AS	0.2µm	820cm²	5 to 25L	With 1/2 SB inlet	With 1/2 SB outlet	6708-7502	**09-743-92**	97.40
75 AS	0.2µm	820cm²	5 to 25L	With MNPT inlet	1/2" SB outlet	6709-7502	**09-743-96**	97.40
75 AS	0.45µm	820cm²	5 to 25L	With SB inlet	With SB outlet	6705-7504	**09-744-57**	96.90
75 AS	0.45µm	820cm²	5 to 25L	With 1/2 SB inlet	With 1/2 SB outlet	6708-7504	**09-744-100**	97.40
75 AS	1.0µm	820cm²	5 to 25L	With 1/2 SB inlet	With 1/2 SB outlet	6705-7510	**09-744-60**	96.60

Whatman™ PolyVent™ Vessel Venting Filters

Inline filters designed specifically for venting of vessels

Single standardized set of materials — polypropylene and PTFE — simplifies the task of approving materials for housing and membrane.

- Hydrophobic, 0.2µm PTFE membrane
- PolyVent 4 is for smaller bottles and jars with capacity of less than 1L
- PolyVent 16 accommodates vessels up to 19L
- PolyVent 500 works with bulk tanks
- PolyVent 1000 is used for larger process tanks

Specifications

- Maximum pressure: 2 bar (29psi)
- Supplied sterilization; autoclavable at 121°C for 20 minutes (maximum 132°C) and 250°F for 20 minutes

APPLICATIONS:

- Sterile venting of filling, mixing, holding, autoclave, fermentation, shipping and dispensing vessels
- For isolation† of incubators, autoclaves, lyophilizers, EtO sterilizers and fermenters
- For biotech, pharmaceutical and diagnostics and food and beverage applications

09-745-1 Series

COMPLIANCE:

- Biosafe — all materials meet USP Class VI requirements
- Manufactured in GMP-controlled cleanroom facilities

Capsule No.	Type	Filter Area	Housing Dimensions	Inlet/Outlet Connections	Airflow Rate‡	Mfr. No.	Cat. No.	Pack of
4	Disc	25mm disc: 4cm²	28 dia. × 23mm L ($1^1/_8 \times {}^7/_8$")	inlet female luer lock, inlet male luer	10 SLPM	6713-0425	**09-745-1A**	50/216.00
16	Disc	50mm disc: 16cm²	53 dia. × 46mm L ($2^1/_8 \times 1^7/_8$")	Inlet 1/4-3/8" SB, outlet 1/4-3/8" SB	50 SLPM	6713-1650	**09-745-1B**	10/197.70
500	Capsule (vented)	36mm capsule: 500cm²	66 dia. × 48mm L ($2^5/_8 \times 1^7/_8$")	1/4-3/8" SB, outlet 1/4-3/8" SB	163 SLPM	6713-5036	**09-745-1D**	1/108.30
1000	Capsule (vented)	75mm capsule: 1000cm²	66 dia. × 96mm L ($2^5/_8 \times 3^7/_8$")	1/2" SB, outlet 3/8 - 1/2" SB	540 SLPM	6713-1075	**09-745-1E**	1/142.50

† Gases pass; liquids and aerosols are stopped
‡ Typical values at 1 bar (14 PSI)

Whatman™ Carbon-Cap Disposable Activated Carbon Capsules

Carbon Cap is capsule filter that is filled with high-purity, high-efficiency, acid-washed, granular-activated carbon

- Remove organic odors, color and colloids from water and air
- Activated carbon plus a pleated HEPA filter media retains 99.97% of all particles 0.3µm
- Maximum housing pressure: 4.1 bar (60psi)

Carbon-Cap 75

- Offers 26,000m² activated carbon surface area

Carbon-Cap 150

- Offers 82,000m² filter area equivalent

APPLICATIONS:

For vacuum pump outlet removal of smoke and oil.

Capsule No.	Filtration Area Equivalent	Inlet/Outlet Connections	Mfr. No.	Cat. No.	Each
75	26,000m²	$^3/_8$-$^1/_2$" hose barb	6704-7500	**09-744-40**	190.80
150	82,000m²	$^3/_8$-$^1/_2$" stepped hose barb	6704-1500	**09-744-37**	191.00

09-744-40

Whatman™ HEPA-Cap Disposable Air Filtration Capsules

For filtration of air and gas

Polyester-laminated glass microfiber filter retains 99.97% of 0.3µm particles from air and gas stream.

- Filter instrument air and maintain particle-free air to environmental chambers
- Bidirectional flow
- Durable polypropylene housing
- Autoclavable
- Maximum housing pressure: 4.1 bar (60psi)

09-744-12

Capsule No.	Filtration Area	Inlet/Outlet Connections	Mfr. No.	Cat. No.	Each
36	625cm²	1/4-3/8" stepped hose barb	6702-3600	**09-744-12**	76.00
75	1300cm²	3/8-1/2" stepped hose barb	6702-7500	**09-744-15**	99.70

Whatman™ HEPA-Vent Filter

For filtration of air and gas

- Laminated, hydrophobically treated glass microfiber
- Prevents bacterial, algal or fungal contamination in fermentors or incubators
- Retains 99.97% of all particles ≥0.3µm in air
- Autoclavable
- Bidirectional flow
- Filter area: 16cm²

09-744-79

Inlet/Outlet	Mfr. No.	Cat. No.	Pack of 10
1/4 to 3/8" stepped barb	6723-5000	**09-744-79**	109.40

Whatman™ Vacu-Guard™ Filter

PTFE membrane retains 99.9% of airborn particles ≥0.1µm

- Installed inline
- Prevent fluid and aerosol contamination of vacuum pumps or aspiration suction systems
- Eliminate hazardous exhaust
- Disposable
- Filter area: for 50mm diameter

09-744-75

Inlet/Outlet	Mfr. No.	Cat. No.	Pack of 10
1/4-3/8" stepped hose barb	6722-5000	**09-744-75**	205.00
3/8-1/2" stepped hose barb	6722-5001	**09-744-76**	195.30

Whatman™ Vacu-Guard™ 150 Vacuum Protection Filter

Hydrophobic PTFE membrane in a pleated cartridge with choice of three chemical traps

Especially protective for vacuum pumps and exhaust air.

- Permanently fuse bonded inside base of capsule
- Stops 99.99% of particulates ≥0.1µm in air/gas
- Can be used to remove aqueous and solvent vapour from air and exhaust
- Housing: polypropylene
- Inlet: 1/2" hose barb
- Outlet: 3/8-1/2" stepped hose barb
- Filter dia. × L: 66 × 236mm (2.62 × 9.31")

09-746A

Activated carbon

- Produced from lignite and acid-washed after steam activation
- For protection from organic vapors
- Surface area: 82,000m²
- Flowrates at 0.1 bar (1.45psi) and 0.5 bar (7.25psi): 210 and 450L/min.

Desiccant

- Anhydrous calcium sulfate
- For protection from high velocity aerosols
- High drying capacity
- Flowrates at 0.1 bar (1.45psi) and 0.5 bar (7.25psi): 280 and 600L/min.

Molecular Sieve

- Silica Aluminate Zeolite
- For cleaning of alkaline and organic airstreams
- Absorbs molecules less than 4Å; excludes larger
- Flowrates at 0.1 bar (1.45psi) and 0.5 bar (7.25psi): 250 and 570L/min.

ALERTS: Care should be taken to determine safety and usefulness of products prior to routine use. For example, molecular sieve rapidly heats up when exposed to water.

Vacu-Guard 150 with Trap	Mesh Size	Mfr. No.	Cat. No.	Each
Activated Carbon	12 × 20	6722-1001	**09-746A**	246.50
Desiccant	8	6722-1002	**09-746B**	157.10
Molecular Sieve	8 × 12	6722-1003	**09-746C**	144.89

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Centrifugal Devices

EMD Millipore™ Amicon™ Ultra-0.5 Centrifugal Filter Units

Reverse spin capability provides consistent recoveries

- Concentrates 500µL down to 15µL
- Concentration factor 25x to 30x
- Fixed angle rotor: 14,000 × g for concentration spin; 1000 × g for reverse spin
- High sample recovery (greater than 90% of dilute starting solution)
- Fast processing time — 10 to 30 minutes
- Reverse spin capability provides consistent recoveries

NOTE:
Additional savings with larger pack sizes available. Also available in 2mL size. See www.fishersci.com for more details.

Specifications	
Maximum initial sample volume	0.5mL
Final Concentrate Volume	20µL
Active Membrane Surface Area	1cm²
Max. Centrifugal Force	14,000 × g for concentration spin; 1000 × g for reverse spin
Material	Regenerated cellulose
Length	0.196" (4.99cm)

APPLICATIONS:

- Concentration of biological samples containing antigens, antibodies, enzymes, nucleic acids or microorganisms
- Purification of macromolecular components found in tissue culture extracts or cell lysates, removal of primer, linkers, or macromolecular labels from a reaction mix, and protein removal prior to HPLC
- Desalting and buffer exchange

UFC801008

INCLUDES: Two microcentrifuge tubes

NMWL	Cat. No.	Each
Amicon Ultra-0.5		
3000	**UFC500308**	44.35
10,000	**UFC501008**	44.35
30,000	**UFC503008**	42.75
50,000	**UFC505008**	42.75
100,000	**UFC510008**	42.75

EMD Millipore™ Amicon™ Ultra-4 and Amicon Ultra-15 Centrifugal Filter Units

Provide both high sample recovery and fast sample processing

- High-recovery Ultracel™-PL regenerated cellulose membrane
- Vertical membrane reduces polarization for ultrafast spin times (as little as 10 to 15 min.)
- Heat-sealed membrane
- Housing is constructed of copolymer styrene/butadiene
- Centrifuge tube is polypropylene; tube cap and liner are polyethylene
- Universal rotor compatibility
- High retentate recovery of >90%
- High concentration factors of 80- to 100-fold
- Easy sample monitoring
- Direct pipetter sample access eliminates processing step to recover concentrate

APPLICATIONS: For concentration of biological samples containing antigens, antibodies, enzymes, nucleic acids or microorganisms; purification of macromolecular components found in tissue culture extracts or cell lysates; concentration of dilute or prepurified proteins from column eluents; desalting and buffer exchange

Specifications		
Type	Ultra-4	Ultra-15
Max. Volume Capacity	Swinging bucket: 4mL	Swinging bucket: 15mL
	Fixed angle: 3.5mL (23°), 4mL (35 and 45°)	Fixed angle: 12mL (35°)
Typical Final Concentrate Volume	50µL	200µL
Max. Centrifugal Force	Swinging bucket: 4000xG	Swinging bucket: 4000xG
	Fixed angle: 7500xG	Fixed angle: 5000xG
Active Membrane Surface Area	3cm²	7.6cm²
Dia. × Length	22.7 x 124mm	35 x 121mm
Rotor	Fixed angle or swinging bucket	Fixed angle or swinging bucket

UFC8-050 Series

INCLUDES:
Assembled with centrifuge tubes and caps

NOTE:
Additional pack sizes available.
See www.fishersci.com for more details.

NMWL	Mfr. No.	Cat. No.	Pack of
Amicon Ultra-4			
3000	UFC8 003 08	**UFC8-003-08**	8/50.70
3000	UFC8 003 24	**UFC8-003-24**	24/137.00
3000	UFC8 003 96	**UFC8-003-96**	96/474.50
10,000	UFC8 010 08	**UFC8-010-08**	8/52.60
10,000	UFC8 010 24	**UFC8-010-24**	24/137.40
30,000	UFC8 030 08	**UFC8-030-08**	8/52.40
50,000	UFC8 050 08	**UFC8-050-08**	8/52.50
100,000	UFC8 100 08	**UFC8-100-08**	8/52.60
Amicon Ultra-15			
3000	UFC9 003 08	**UFC9-003-08**	8/100.90
3000	UFC9 003 24	**UFC9-003-24**	24/271.00
10,000	UFC9 010 08	**UFC9-010-08**	8/100.90
10,000	UFC9 010 24	**UFC9-010-24**	24/258.58
30,000	UFC9 030 08	**UFC9-030-08**	8/100.90
30,000	UFC9 030 24	**UFC9-030-24**	24/258.58
30,000	UFC9 030 96	**UFC9-030-96**	96/996.00
50,000	UFC9 050 08	**UFC9-050-08**	8/100.90
50,000	UFC9 050 24	**UFC9-050-24**	24/271.00
50,000	UFC9 050 96	**UFC9-050-96**	96/1001.00
100,000	UFC9 100 08	**UFC9-100-08**	8/100.90
100,000	UFC9 100 24	**UFC9-100-24**	24/271.50
100,000	UFC9 100 96	**UFC9-100-96**	96/1002.00

EMD Millipore™ Centricon™ Plus-70 Centrifugal Filter Units

Compatible with swinging-bucket rotor (250mL) with maximum rotation of 3500xG

UFC7 series

Device consists of a polypropylene filtrate collection cup, sample filter cup, concentrate/retentate cup and cap.

- Low hold-up volume
- >90% typical recovery 50X to 200X concentration
- Polypropylene housing minimizes binding
- Deadstop prevents spinning to dryness
- Ready to use; nothing to assemble

APPLICATIONS:

- Concentrating and desalting chromatography column eluates
- Concentrating monoclonal antibodies
- Concentrating proteins or viruses from culture supernatants
- Clarifying tissue homogenates and cell lysates
- Buffer exchange or diafiltration

Description	Pore Size	Cat. No.	Pack of 8
Ultracel™	10,000	**UFC7 010 08**	235.50
Ultracel	30,000	**UFC7 030 08**	235.50
Ultracel	100,000	**UFC7 100 08**	235.50

EMD Millipore™ Ultrafree™-MC and Ultrafree-CL Centrifugal Filter Devices with Durapore™ Membrane

Fast, convenient sample preparation; very low hold-up volumes (10µL)

Ideal for particle removal and purification. Achieve maximum recovery with a high degree of purity for volumes up to 0.5mL with Ultrafree-MC devices. Ultrafree-CL processes up to 2mL.

- Minimize sample handling to avoid significant losses of valuable material
- Low hold-up volume of sample allows highest recoveries
- Color coded to indicate membrane type and pore size
- Polypropylene components
- Silicone O-rings
- No adhesives used in assembly
- Low protein binding
- Filter insert fits standard 0.5mL microcentrifuge tubes

Specifications		
Centrifugal Device	Ultrafree-MC	Ultrafree-CL
Maximum Volume Capacity	500µL†	2.0mL
Maximum Centrifugal Force	12,000×G	5000×G
Active Membrane Surface Area	0.2cm²	0.8cm²
Diameter × Length	7/16 × 1 3/4" (10.6 × 45mm)	5/8 × 3 1/32" (16.3 × 77mm)
Rotor	Fixed Angle	Fixed Angle

†400µL with ultrafiltration membrane.

NOTE:
Also available in pack size of 25. Additional pack sizes and sterile options available.
See www.fishersci.com for more details.

Pore Size	Color	Sterile	Cat. No.	Pack of
Ultrafree-MC (0.5mL max. volume capacity)				
0.1µm	Orange	No	**UFC3 0VV 00**	Pk.100/293.00
0.22µm	Yellow	No	**UFC3 0GV 00**	Pk.100/293.00
0.45µm	Red	No	**UFC3 0HV 00**	Pk.100/293.00
0.65µm	Purple	No	**UFC3 0DV 00**	Pk.100/293.00
5.0µm	Dark Green	No	**UFC3 0SV 00**	Pk.100/293.00
Ultrafree-CL (2mL max. volume capacity)				
0.22µm	Yellow	No	**UFC4 0GV 00**	Pk.100/391.50
0.45µm	Red	No	**UFC4 0HV 00**	Pk.100/436.50
0.65µm	Purple	No	**UFC4 0DV 25**	Pk.25/130.60
5.0µm	Dark Green	No	**UFC4 0SV 25**	Pk.25/128.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sartorius™ Vivacell™ PES Centrifugal Concentrators

Ultrafiltration units for sample concentrations with highest process flexibility

Disposable ultrafiltration units for the concentration of samples. Combine the ease of use of centrifugal devices with the flexibility and control provided by pressurized ultrafiltration cells.

- Easy to handle
- High flux PES membrane
- Vertical membrane design for ultra fast concentration
- High retentate recovery >90%
- Universal rotor compatibility
- Reusable — only membrane insert needs to be replaced

INCLUDES:
Complete Assembly Set (14-558-300) includes pressure head, pressure indicator/over-pressure release valve, quick release connection to APC, two sample reservoirs, filtrate container and insert tool

14-558-526

14-558-278

14-558-282

14-558-300

Description	MWCO	Mfr. No.	Cat. No.	Price
Sartorius Vivacell 70	5,000 Dalton	VS6011	**14-558-522**	2 Pk./ 56.18
Sartorius Vivacell 70	10,000 Dalton	VS6001	**14-558-520**	2 Pk./56.18
Sartorius Vivacell 70	30,000 Dalton	VS6021	**14-558-524**	2 Pk./56.18
Sartorius Vivacell 70	50,000 Dalton	VS6031	**14-558-526**	2 Pk./56.18
Sartorius Vivacell 70	100,000 Dalton	VS6041	**14-582-58**	2 Pk./56.18
Sartorius Vivacell 100	1,000,000 Dalton	VC1062	**14-558-278**	2 Pk./338.50
Sartorius Vivacell 100	Pore Size: 0.2µm	VC1071	**14-558-279**	2 Pk./72.08
Sartorius Vivacell 100	5,000 Dalton	VC1011	**14-558-267**	2 Pk./72.08
Sartorius Vivacell 100	300,000 Dalton	VC1052	**14-558-276**	2 Pk./338.50
Sartorius Vivacell 100	100,000 Dalton	VC1041	**14-558-273**	2 Pk./72.08
Sartorius Vivacell 100	50,000 Dalton	VC1032	**14-558-272**	2 Pk./338.50
Sartorius Vivacell 100	30,000 Dalton	VC1022	**14-558-270**	2 Pk./338.50
Sartorius Vivacell 100	10,000 Dalton	VC1002	**14-558-266**	2 Pk./338.50
Sartorius Vivacell 250	5,000 Dalton	VC2511	**14-558-282**	Ea./142.50
Sartorius Vivacell 250	30,000 Dalton	VC2521	**14-558-283**	Ea./142.50
Sartorius Vivacell 250	10,000 Dalton	VC2501	**14-558-281**	Ea./142.50
Sartorius Vivacell 250 Starter Kit	5KD, 10KD, 30KD, 50KD, 100KD	VC25S1	**14-558-287**	Ea./142.50
Sartorius Vivacell 250	Pore size: 2µm	VC2571	**14-558-286**	Ea./138.86
Vivacell 250 complete set	----	VCA250	**14-558-300**	Ea./544.00

Sartorius Complete Assembly for Vivacell 250 Specifications

Specifications	
Concentrator capacity	250mL
Operating pressure max.	4 bar
Width	116mm
Height	235mm
Active membrane area	40cm^2
Hold-up volume membrane and support	< 200µL
Screw closure	Acetal
Pressure head/pressure-fuge head	Acetal
Quick release connector	Acetal
Concentrator body/sleeve	Polycarbonate (PC)
Filtrate container	Polycarbonate (PC)
Membrane	Polyethersulfone (PES)
Dead stop volume	600µL

sartorius

Before You Buy Centrifugal and CrossFlow Concentrators

Vivaflow 50 & 200 systems feature ready-to-use ultrafiltration modules for cross-flow filtration of samples 100mL to 5L.

This system offers a standard of ease of use, performance, flexibility and economic which is an unrivalled innovative design.

Unique performance

- 20X Concentration in less than 30 min.
- High flow rate and recovery

Unique features

- Thin channel "flip-flow" recirculation path provides high cross flow velocities with minimum pump requirements.
- Crystal clear for simple control of remaining hold up and membrane status.
- Unique interlocking modules with series connectors for easy scalability.

Vivaflow 200

Fastest Performance with Highest Recoveries

- Concentrators offer the optimal solution to any concentration or buffer exchange application with a broad range of volume capacities and MWCOs.
- Highest flow rates and recoveries are achieved with our vertical membrane and "flip-flow "design.
- Incomparably safe sample handling and convenience is assured by the patented dead-stop technology.

Vivaspin applications

- Concentration of biological samples including protein, antibodies, peptides and virus
- Concentration of diluted protein samples from chromatography eluates
- Desalting, diafiltration, buffer exchange
- Sample concentration for crystallization for NMR, HPLC, MS
- Removal of very small or large contaminants

Vivaspin Centrifugal Concentrators

Features

- Fast, minimal membrane blocking
- Vertical, large membrane design
- Integrated Dead-Stop-Volume
- Low-binding materials
- No re-spinning necessary
- Broad volume range from 0.5 – 100mL
- Wide MWCO range from 2 kDa – 0.2 µm
- Membrane selection
- Highest recovery with extremely low-binding in Hydrosart membrane in Vivaspin 2 and 15R
- Materials of PES filter & Housing PS and PP for Sterilization and depyrogenation

Benefits

- No risk (to concentrate to dryness)
- High recovery
- Fast and easy handling
- High volume flexibility
- High MWCO flexibility
- High Chemical Compatibility Vivaspin Turbo 15

Vivaspin™ Centrifugal Concentrators

Flexible and efficient protein concentration

Vivaspin products offer a comprehensive range of fast protein concentration devices from 0.5 ml to 20 ml volume capacity. The large range of different molecular weight cut offs, from 2 kDa to 1000 kDa and 0.2µm offer a solution to every concentration need. Unique Vivaspin 20 can be pressurized and centrifuged simultaneously for processing difficult samples.

Features & Benefits

Dead stop pocket
Guaranteed sample recovery – no risk of concentrating to dryness

Unique housing design feature
Collection tube fit under concentrator body for increased sample volume acceptance in Vivaspin 6 and Vivaspin 20

Vertical membrane configuration
Fast sample concentration

Flexibility
Easy to find the perfect ultrafiltration for your application due to large selection. Widest volume capacity range and membrane cut off

Applications

- Protein concentration
- Virus concentration
- Nanoparticle concentration
- Sample desalting / diafiltration

Vivaspin 2

Vivaspin 500

Vivaspin 6

Vivaspin 15R

Vivaspin 20

Model	Cat. No.	Molecular Weight Cut-Off (MWCO) in daltons	Qty./Pk.	Each
Vivaspin 500 - Polyethersulfone				
VS0191	**14-558-412**	3,000	25	99.00
VS0111	**14-558-398**	5,000	25	99.00
VS0101	**14-558-396**	10,000	25	99.00
VS0121	**14-558-400**	30,000	25	99.00
VS0131	**14-558-402**	50,000	25	33.00
VS0141	**14-558-404**	100,000	25	99.00
VS0151	**14-558-406**	300,000	25	99.00
VS0161	**14-558-408**	1,000,000	25	99.00
VS01S1	**14-558-416**	5 each of 5,000/10,000/30,000/ 50,000/100,000	25	97.00
Vivaspin 2 - Polyethersulfone				
VS0291	**14-558-433**	3,000	25	113.00
VS0211	**14-558-419**	5,000	25	113.00
VS0201	**14-558-417**	10,000	25	113.00
VS0221	**14-558-421**	30,000	25	113.00
VS0241	**14-558-425**	100,000	25	113.00
VS0251	**14-558-427**	300,000	25	113.00
VS0261	**14-558-429**	1,000,000	25	113.00
VS02S1	**14-558-443**	5 each of 5,000/10,000/30,000/ 50,000/100,000	25	113.00
Vivaspin 2 - Cellulose Triacetate				
VS02U1	**14-558-444**	5,000	25	113.00
VS02V1	**14-558-446**	10,000	25	113.00
VS02X1	**14-558-448**	20,000	25	113.00
Vivaspin 2 - Hydrosart				
VS02H91	**14-558-441**	2,000	25	120.00
VS02H11	**14-558-437**	5,000	25	120.00
VS02H01	**14-558-435**	10,000	25	120.00
VS02H21	**14-558-439**	30,000	25	120.00

Model	Cat. No.	Molecular Weight Cut-Off (MWCO) in daltons	Qty./Pk.	Each
Vivaspin 6 - Polyethersulfone				
VS0691	**14-558-479**	3,000	25	127.00
VS0611	**14-558-465**	5,000	25	127.00
VS0601	**14-558-463**	10,000	25	127.00
VS0621	**14-558-467**	30,000	25	127.00
VS0631	**14-558-469**	50,000	25	127.00
VS0641	**14-558-471**	100,000	25	127.00
VS0651	**14-558-473**	300,000	25	127.00
VS0661	**14-558-475**	1,000,000	25	127.00
VS06S1	**14-558-481**	5 each of 5,000/10,000/30,000/ 50,000/100,000	25	127.00
Vivaspin 15R - Polyethersulfone				
VS15RH91	**14-558-498**	2,000	12	111.00
VS15RH11	**14-558-494**	5,000	12	111.00
VS15RH01	**14-558-492**	10,000	12	111.00
VS15RH21	**14-558-496**	30,000	12	111.00
Vivaspin 20 - Polyethersulfone				
VS2091	**14-558-517**	3,000	12	127.00
VS2011	**14-558-503**	5,000	12	127.00
VS2001	**14-558-501**	10,000	12	127.00
VS2021	**14-558-505**	30,000	12	127.00
VS2031	**14-558-507**	50,000	12	127.00
VS2041	**14-558-509**	100,000	12	127.00
VS2051	**14-558-511**	300,000	12	127.00
VS2061	**14-558-513**	1,000,000	12	127.00
VS20S1	**14-558-519**	2 each of 5,000/10,000/30,000/ 50,000/ 100,000	12	127.00

Vivaspin™ Turbo Centrifugal Concentrators

High speed and recovery protein concentration

Sartorius Vivaspin Turbo 15 is the fastest ultrafiltration device in the market for sample concentration. Twin vertical membranes with a new innovative design offers fastest concentration with low binding and pH resistant housing material. A patent pending angular dead stop pocket not only prevents centrifuging to dryness but also supports highest recoveries due to easy concentrate recovery by a pipet.

Vivaspin Turbo 15 Centrifugal Concentrator

Features & Benefits

Twin vertical membranes assembled in an optimized design
Fastest ultrafiltration device on the market for high speed protein concentration — saves time and retains protein activity.

Unique angular dead stop pocket
Patent pending angular design guarantees complete sample recovery with a pipette, while eliminating the risk of concentrating to dryness.

Low binding and pH resistant polystyrene housing material
Neglectable unspecific binding, leading to high recoveries, combined with highest chemical compatibility.

Applications

- Protein concentration
- Virus concentration
- Nanoparticle concentration
- Sample desalting / diafiltration

Model	Cat. No	Molecular Weight Cut-Off (MWCO) in daltons	Qty./Pk.	Each
Vivaspin Turbo 15 - Polyethersulfone				
VS15T91	**14-558-658**	3,000	12	135.00
VS15T11	**14-558-652**	5,000	12	135.00
VS15T01	**14-558-651**	10,000	12	135.00
VS15T21	**14-558-653**	30,000	12	135.00
VS15T31	**14-558-654**	50,000	12	135.00
VS15T41	**14-558-655**	100,000	12	135.00

Clinical

Fisherbrand® Disposable Filter Columns

Disposable polypropylene columns effectively filter out interfering materials from blood, serum or urine

- Save time and money
- Help eliminate inaccurate readings
- To use, just hold screening column over sample cup
- Decant directly through the column into sample cups — no pipetting
- Filters 200 to 300µm
- When filtration is complete, discard column
- Sample is ready for analysis
- Columns are graduated in 0.5mL divisions
- Serum filter column for final filtration directly into sample cups for Technicon™ 6/60™, 12/60™, and SMAC analyzers
- Large flow channel and less capillarity let all the sample through
- Filters particles as small as 40 to 50µm
- Helps reduce line clogging

11-387-50

Description	Cat. No.	Case of 1000
Disposable Filter Columns	**11-387-50**	255.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Filter Paper - Qualitative

Fisherbrand® Qualitative Grade Circles and Sheets

Ideal for clarifying and removing particles of 1µm and larger, and in applications that do not require a low-ash or ashless paper

- Cellulose fiber papers
- Good wet strength
- Suitable for gravity and low-suction filtration and for use in vacuum filtration systems
- Available as circular, rectangular and square sheets

NOTES:
Not suitable for nitrogen analysis.

09-802-1B

09-795B

Fisherbrand Grade	P8	P5	P4	P2
Particle Retention	20–25µm	5–10µm	4–8µm	1–5µm
Porosity	Coarse	Medium	Medium-Fine	Fine
Filtration Speed[1]	Herzberg, 55 seconds	Herzberg, 230 seconds	Herzberg, 730 seconds	Herzberg, 1400 seconds
Flowrate[2]	Fast—160mL/min.	Slow—60mL/min.	Slow—25mL/min.	Slow—5mL/min.
Surface	Smooth, open texture	Smooth	Smooth	Smooth, dense texture
Applications	Suitable for coarse and gelatinous precipitates. Retains $Fe(OH)_3$, $Al(OH)_3$, metallic sulfides, iron ores. For clarifying solutions, oils. For zinc analysis (Fe ppt removal). Size 19cm (09-804) widely used for sugar analysis.	General lab uses: clinical and spot testing, clarifying pharmaceuticals.	General purpose: slightly slower, more retentive than P5. Retains $MgNH_4PO_4$, silver sulfide, cadmium sulfide. In air monitors, collects particulates and chromic acid mist.	Excellent retention. Suitable for finest particles or precipitates. Used for boiler water testing, pigment studies, analysis of zinc and titanium.

	Grade P8		Grade P5		Grade P4		Grade P2	
Dia. (circles) or L x W (sheets)	Cat. No.	Pack of	Cat. No.	Pack of	Cat. No.	Pack of	Cat. No.	Pack of
2.5cm dia.	**09-795AA**	100/10.59	**09-801AA**	100/13.12	----	----	----	----
3.5cm dia.	**09-795BB**	100/9.14	**09-801BB**	100/12.42	----	----	----	----
4.25cm dia.	----	----	**09-801J**	100/6.25	**09-803-6A**	100/10.31	----	----
5.5cm dia.	**09-795A**	100/9.83	**09-801K**	100/1.11	**09-803-6B**	100/14.21	**09-803-5A**	100/7.06
7cm dia.	**09-795B**	100/11.61	**09-801A**	100/12.07	**09-803-6C**	100/19.27	**09-803-5B**	100/11.85
9cm dia.	**09-795C**	100/9.59	**09-801B**	100/10.17	**09-803-6D**	100/17.51	**09-803-5C**	100/32.25
11cm dia.	**09-795D**	100/11.36	**09-801C**	100/10.55	**09-803-6E**	100/27.45	**09-803-5D**	100/19.83
12.5cm dia.	**09-795E**	100/11.93	**09-801D**	100/16.90	**09-803-6F**	100/29.10	**09-803-5E**	100/20.36
15cm dia.	**09-795F**	100/15.53	**09-801E**	100/28.62	**09-803-6G**	100/39.12	**09-803-5F**	100/84.11
18.5cm dia.	**09-795G**	100/21.66	----	----	**09-803-6H**	100/264.83	**09-803-5G**	100/34.37
19cm dia.	**09-804**	100/63.50	**09-801F**	100/38.85	----	----	----	----
20.5cm dia.	**09-795H**	100/34.04	----	----	**09-803-6J**	100/122.42	----	----
24cm dia.	**09-795J**	100/34.52	**09-801G**	100/49.78	**09-803-6K**	100/79.74	**09-803-5J**	100/59.25
46 × 57cm	**09-802-1B**	100/172.67	**09-802-1A**	100/246.53	----	----	----	----
50 × 50cm	**09-800**	500/423.50	**09-802**	500/556.50	----	----	----	----

[1] Time for 100mL to pass through 10cm² filter paper with 10cm constant head pressure of water
[2] Rate of flow for distilled water through a 5cm diameter filter with constant 5cm head of water

Fisherbrand® Fluted Qualitative Circles

Cellulose fiber papers

- For use with conical funnels
- High wet strength†

09-790-14G

Fisherbrand Grade	P8—Fluted
Particle Retention	25µm
Porosity	Coarse
Flowrate	Fast
Surface	Smooth
Applications	Fluting provides more filter area, faster flowrate in conical funnel; reduces likelihood of tearing. Suitable for coarse, gelatinous precipitates.

Diameter	Cat. No.	Pack of 100
12.5cm	**09-790-14D**	70.96
15cm	**09-790-14E**	80.50
18.5cm	**09-790-14F**	83.96
24cm	**09-790-14G**	92.65

†Wet-strengthened papers should not be used for Kjeldahl analyses

Fisherbrand® Wet-Strengthened Qualitative Circles

Coarse cellulose fiber papers remove particles >25µm

- Creped surface
- Fast flowrate
- Suitable for vacuum filtration

NOTES:
Not for nitrogen analysis.

09-790-12C

Fisherbrand Grade	**P8**
Particle Retention	>25µm
Porosity	Coarse
Flowrate	Fast
Surface	Creped
Applications	Suitable for coarse, gelatinous precipitates. Wet strengthened.[†]

Diameter	Cat. No.	Pack of 100
9cm	**09-790-12C**	10.20
11cm	**09-790-12D**	14.07
12.5cm	**09-790-12E**	21.34
15cm	**09-790-12F**	22.11
18.5cm	**09-790-12G**	30.86

[†] *Wet-strengthened papers should not be used for Kjeldahl analyses.*

Whatman™ Qualitative Grade Circles and Sheets

Grades 1, 2 and 3

Maximum ash, 0.06%

Whatman Grade	**Whatman 1**	**Whatman 2**	**Whatman 3**
Particle Retention	>11µm	>8µm	>6µm
Porosity	Medium	Medium Fine	Medium Fine
Filtration Speed[†]	ASTM™, 40 seconds; Herzberg, 150 seconds	ASTM, 55 seconds; Herzberg, 240 seconds	ASTM, 90 seconds; Herzberg, 325 seconds
Surface	Smooth	Smooth	Smooth, grained
Applications	For general-purpose use, air pollution monitoring and soil chemical analysis.	Slightly thicker and more retentive and absorbent than Whatman Grade 1.	Doubles the thickness of Whatman Grade 1 (0.4mm) for high precipitate capacity and increased wet strength. Suitable for suction filtration. Slightly grained surface. Highly absorbent.

	Grade 1			Grade 2			Grade 3		
Diameter (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of	Mfr. No.	Cat. No.	Pack of	Mfr. No.	Cat. No.	Pack of
1.0cm	1001 6508	**09-805-1A**	500/43.40	----	----	----	----	----	----
1.5cm	1001-0155	**09-805-1B**	500/43.40	----	----	----	----	----	----
2.3cm	----	----	----	----	----	----	1003-323	**09-820AA**	100/14.07
2.5cm	1001-325	**09-805-1G**	100/9.87	----	----	----	----	----	----
3.0cm	1001-329	**09-805P**	100/9.69	----	----	----	----	----	----
3.2cm	1001-032	**09-805**	100/10.02	----	----	----	----	----	----
4.25cm	1001-042	**09-805A**	100/9.87	1002-042	**09-810A**	100/12.51	----	----	----
5.5cm	1001-055	**09-805B**	100/11.25	1002-055	**09-810B**	100/13.92	1003-055	**09-820H**	100/15.53
7.0cm	1001-070	**09-805C**	100/11.25	1002-070	**09-810C**	100/15.55	1003-070	**09-820J**	100/18.26
9.0cm	1001-090	**09-805D**	100/14.13	1002-090	**09-810D**	100/18.11	1003-090	**09-820A**	100/23.85
11.0cm	1001-110	**09-805E**	100/16.84	1002-110	**09-810E**	100/18.30	1003-110	**09-820B**	100/28.05
12.5cm	1001-125	**09-805F**	100/16.79	1002-125	**09-810F**	100/22.55	1003-125	**09-820C**	100/35.05
15.0cm	1001-150	**09-805G**	100/25.20	1002-150	**09-810G**	100/31.60	1003-150	**09-820D**	100/50.50
18.5cm	1001-185	**09-805H**	100/35.10	1002-185	**09-810H**	100/42.85	1003-185	**09-820E**	100/65.80
24.0cm	1001-240	**09-805J**	100/56.10	1002-240	**09-810J**	100/69.80	1003-240	**09-820F**	100/112.90
27.0cm	1001-270	**09-805K**	100/68.70	1002-270	**09-810K**	100/92.30	----	----	----
32.0cm	1001-320	**09-805L**	100/94.90	1002-320	**09-810L**	100/142.70	----	----	----
38.5cm	1001-385	**09-805-1C**	100/156.40	1002-385	**09-810M**	100/188.70	----	----	----
40.0cm	1001-400	**09-805-1D**	100/156.40	----	----	----	----	----	----
50.0cm	1001-500	**09-805-1E**	100/227.50	1002-500	**09-810P**	100/351.00	----	----	----
46 × 57cm	1001-917	**09-806A**	100/213.50	1002-917	**09-810Q**	100/375.00	1003-917	**09-820P**	100/515.00
46 × 57cm	1001-918	**09-805-1F**	500/949.00	----	----	----	---	---	---
58 × 68cm	----	----	----	1002-931	**09-815A**	100/400.00	---	---	---

[1] ***Filtration speed conditions.*** *ASTM, time for 100mL of prefiltered water to pass through 15cm quadrant-folded paper; Herzberg, time for 100mL to pass through 10cm² filter paper with 10cm constant head of water.*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Whatman™ Qualitative Grade Circles and Sheets, Contd.

Grades 4, 5 and 6

Whatman Grade	Whatman 4	Whatman 5	Whatman 6
Particle Retention	>20-25µm	> 2.5µm	>3µm
Porosity	Coarse	Fine	Fine
Filtration Speed†	ASTM™, 12 sec.; Herzberg, 37 sec.	ASTM, 250 sec.; Herzberg, 1420 sec.	ASTM, 175 sec.; Herzberg, 715 sec.
Surface	Smooth	Smooth, dense	Smooth
Applications	Used in air-pollution monitoring and routine cleanup of biological fluids. Retains coarse particles, gelatinous precipitates.	Most retentive grade of the series. Useful for clarifying cloudy suspensions, water analysis, Büchner funnel filtrations.	Twice as fast as Whatman Grade 5. Often specified for boiler water analyses.

	Grade 4			Grade 5			Grade 6		
Diameter (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
42.5mm	1004-042	**09-825J**	10.02	1005-042	**09-830G**	11.45	1006-042	**09-831A**	11.26
55mm	1004-055	**09-825K**	12.89	1005-055	**09-830H**	12.89	----	**----**	----
70mm	1004-070	**09-825A**	12.89	1005-070	**09-830K**	15.78	----	**----**	----
90mm	1004-090	**09-825B**	15.76	1005-090	**09-830A**	19.98	1006-090	**09-831D**	18.58
110mm	1004-110	**09-825C**	21.05	1005-110	**09-830B**	25.60	1006-110	**09-831E**	24.65
125mm	1004-125	**09-825D**	25.65	1005-125	**09-830C**	32.75	1006-125	**09-831F**	29.90
150mm	1004-150	**09-825E**	32.75	1005-150	**09-830D**	47.10	1006-150	**09-831G**	45.55
185mm	1004-185	**09-825F**	48.50	1005-185	**09-830E**	69.80	----	**----**	----
240mm	1004-240	**09-825G**	83.10	1005-240	**09-830F**	114.90	1006-240	**09-831J**	112.30
270mm	1004-270	**09-825L**	107.90	----	**----**	----	----	**----**	----
320mm	1004-320	**09-825H**	154.90	1005-320	**09-830M**	199.10	----	**----**	----
400mm	1004-400	**09-825M**	230.00	----	**----**	----	----	**----**	----
460 × 570mm (L × W)	1004-917	**09-825P**	297.50	----	**----**	----	----	**----**	----

† ***Filtration speed conditions.*** *ASTM, time for 100mL of prefiltered water to pass through 15cm quadrant-folded paper; Herzberg, time for 100mL to pass through 10cm² filter paper with 10cm constant head of water.*

Whatman™ Wet-Strengthened Qualitative Circles

Coarse porosity paper with creped or smooth surface

- Have high wet strength due to the addition of a small quantity of chemically stable resin

09-833F

Whatman Grade	Whatman 113	Whatman 114
Particle Retention	>30µm	>25µm
Porosity	Coarse	Coarse
Filtration Speed[1]	ASTM™, 8 seconds; Herzberg, 28 seconds	ASTM, 12 seconds; Herzberg, 38 seconds
Surface	Creped	Smooth
Applications[2]	Ideal for coarse particles and gelatinous precipitates. Thickest Whatman filter paper (0.42mm). Very high loading; high wet strength.	Half as thick as Grade 113. Use for coarse particles and gelatinous precipitates. Smooth surface makes precipitate recovery easy. Normal loading: high wet strength.

Diameter	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
	Whatman 113			***Whatman 114***		
9cm	1113-090	**09-853A**	22.70	1114-090	**09-833D**	16.52
11cm	1113-110	**09-853B**	26.45	1114-110	**09-833E**	----
12.5cm	1113-125	**09-853C**	32.50	1114-125	**09-833F**	29.00
15cm	1113-150	**09-853D**	45.20	1114-150	**09-833G**	36.30
18.5cm	1113-185	**09-853E**	68.20	1114-185	**09-833H**	53.60
24cm	1113-240	**09-853F**	107.10	1114-240	**09-833J**	86.60
32cm	1113-320	**09-853H**	192.20	----	**----**	----
40cm	----	**----**	----	1114-400	**09-833M**	260.00
50cm	1113-500	**09-853K**	451.00	----	**----**	----

[1] ***Filtration speed conditions:*** *ASTM, time for 100mL of prefiltered water to pass through 15cm quadrant-folded paper; Herzberg, time for 100mL to pass through 10cm² filter paper with 10cm constant head pressure of water.*

[2] *Wet-strengthened papers should not be used for Kjeldahl analyses.*

Whatman™ Prepleated Qualitative Circles

Save time required to fit circles into conical funnels

- Prefolded
- Postpone normal slowdown of filtration speed due to particulate loading
- Increase total loading capacity

Whatman Grade	Whatman 2V	Whatman 113V	Whatman 114V
Particle Retention	>8µm	>30µm	>25µm
Porosity	Medium-Fine	Coarse	Coarse
Filtration Speed[1]	ASTM™, 55 seconds; Herzberg, 240 seconds	ASTM, 8 seconds; Herzberg, 28 seconds	ASTM, 12 seconds; Herzberg, 38 seconds
Surface	Smooth	Creped	Smooth
Applications	Certified for cereal analysis methods. Normal loading capacity; limited wet strength.[2]	Ideal for coarse particles and gelatinous precipitates. Fastest flowrate of any qualitative grade. Very high loading capacity. High wet strength.[3]	Ideal for coarse particles and gelatinous precipitates. Fast flowrate. Normal loading; high wet strength.[3]

	Whatman 2V Grade			Whatman 113V Grade			Whatman 114V Grade		
Diameter	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
12.5cm	1202-125	**09-832A**	68.34	1213-125	**09-832K**	114.30	1214-125	**09-834A**	80.70
15cm	1202-150	**09-832B**	78.90	1213-150	**09-832L**	97.50	1214-150	**09-834B**	89.00
18.5cm	1202-185	**09-832C**	87.40	----	----	----	1214-185	**09-834C**	105.90
24cm	1202-240	**09-832D**	120.10	----	----	----	1214-240	**09-834D**	146.50
27cm	----	----	----	1213-270	**09-832P**	223.50	----	----	----
32cm	1202-320	**09-832E**	188.90	----	----	----	1214-320	**09-834F**	223.50
38.5cm	1202-385	**09-832F**	283.50	----	----	----	----	----	----
40cm	1202-400	**09-832H**	322.00	----	----	----	----	----	----
50cm	1202-500	**09-832G**	375.00	----	----	----	----	----	----

[1]***Filtration speed conditions.*** *ASTM, time for 100mL of prefiltered water to pass through 15cm quadrant-folded paper; Herzberg, time for 100mL to pass through 10cm² filter paper with 10cm constant head of water.*
[2]*Suitable for gravity or low-suction filtration; should be used with care to avoid rupturing.*
[3]*Wet-strengthened papers should not be used for Kjeldahl analyses.*

Whatman™ Qualitative Grade Paper for IS Measurement

Specifically developed for measuring the Ignition Strength (IS) of cigarettes

- Each lot is guaranteed to meet the ASTM™ E2187-04 specifications
- Simplifies testing process by eliminating lot suitability testing
- Just condition and use

09-940-100

COMPLIANCE:

- Tested according to the procedure detailed in ASTM E2187-04 Sections 9.3.1 and 9.3.2
- Meets both the conditioned (26.1 ±0.5g, SD ≤0.3g) and dried (24.7 ±0.5g, SD ≤0.3g) weight requirements
- Lot-specific certificate can be downloaded from Whatman website

CERTIFICATIONS:
Certified Grade 2 (for IS testing)

Diameter	Mfr. No.	Cat. No.	Pack of 100
15cm	1002-147	**09-940-100**	34.36

Whatman™ Shark Skin Filter Paper

High wet strength allows use under pressure

- General use filter paper is white with crepe surface
- Unique paper is almost as strong wet as it is dry
- Used for qualitative work — exceptional filtering properties
- Speed of filtering is comparable to common qualitative papers
- Acid and alkali resistance allows for wide range of process operations
- Particle retention: 8-12µm

Whatman Shark Skin Filter Paper

APPLICATIONS:
Great for industrial work because its high wet strength allows use under pressure or suction.

Diameter	Mfr. No.	Cat. No.	Pack of 100
12.5cm	10347511	**09-924-390**	56.80
15cm	10347513	**09-924-392**	45.85

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Filter Paper - Quantitative

Fisherbrand® Quantitative Grade Circles

Manufactured to reduce silicon dioxide, calcium oxide and ferric oxide levels

- Made from high-quality alpha cotton cellulose, washed in hydrochloric acid and neutralized in an ultrapure water rinse
- Leave no more than 0.01% ash when burned
- Limited wet strength, suitable for gravity or low-suction filtration; should be used with care to avoid rupturing

09-790G

ORDERING INFORMATION:
Packed 100 circles to a box and shrink-wrapped for purity and cleanliness.

COMPLIANCE:
All papers listed in chart meet ASTM™ requirements for "ash content per circle."

Fisherbrand Grade	Q8	Q5	Q2
Particle Retention	20–25µm	5–10µm	1–5µm
Porosity	Coarse	Medium	Fine
Filtration Speed	Fast	Medium	Slow
Surface	Smooth, open texture	Smooth	Smooth, dense texture
Applications†	Suitable for coarse and gelatinous precipitates requiring thorough washing on paper. Used in metallurgical labs for filtering iron and aluminum hydroxides, metallic aerosols and for determining silica in steel. Also used in environmental monitoring. Limited wet strength.	Widely used for general gravimetric analysis. Retains medium-sized particles such as lead sulfate, calcium oxalate and magnesium ammonium sulfate. Limited wet strength.	Excellent retention. Suitable for finest precipitates such as metastannic acid, barium sulfate, mercuric chromate, strontium sulfate. Used primarily for gravimetric and inorganic analyses, collecting precipitates that tend toward colloidal dispersions. Limited wet strength.

	Q8		Q5		Q2	
Diameter	Cat. No.	Pack of 100	Cat. No.	Pack of 100	Cat. No.	Pack of 100
5.5cm	**09-790A**	15.27	**09-790-2A**	26.49	----	----
7cm	**09-790B**	20.95	**09-790-2B**	20.83	----	----
9cm	**09-790C**	29.06	**09-790-2C**	33.79	**09-790-4C**	29.90
11cm	**09-790D**	37.04	**09-790-2D**	37.10	**09-790-4D**	37.46
12.5cm	**09-790E**	48.11	**09-790-2E**	44.03	**09-790-4E**	42.13
15cm	**09-790F**	55.73	**09-790-2F**	55.27	**09-790-4F**	56.40
18.5cm	**09-790G**	87.71	**09-790-2G**	82.09	----	----

†Suitable for gravity or low suction filtration; should be used with care to avoid rupturing

Whatman™ Quantitative-Grade Papers

Hardened Low Ash Circles and Sheets

Maximum ash of 0.015%

- High wet strength, high chemical resistance, hard smooth surface
- Ideal for Büchner funnel filtration

Whatman Grade	Whatman 50	Whatman 52	Whatman 54
Particle Retention	>2.7µm	>7µm	>20–25µm
Porosity	Fine	Medium	Coarse
Filtration Speed[1]	ASTM™, 250 seconds; Herzberg, 2685 seconds	ASTM, 55 seconds; Herzberg, 235 seconds	ASTM, 10 seconds; Herzberg, 39 seconds
Surface	Smooth, hard	Smooth, hard	Smooth, hard
Applications	Highly glazed surface, free of loose fibers. Retains fine crystalline precipitates. Normal loading; high wet strength.	General-purpose filtration. Normal loading characteristics; high wet strength.[2]	For gelatinous precipitates and coarse particles. Normal loading characteristics; high wet strength.

	Whatman Grade 50			Whatman Grade 52			Whatman Grade 54		
Diameter (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
4.25cm	1450-042	**09-865J**	24.15	----	----	----	----	----	----
5.5cm	1450-055	**09-865A**	28.45	----	----	----	1454-055	**09-868F**	28.45
7cm	1450-070	**09-865B**	32.50	----	----	----	1454-070	**09-868G**	32.65
9cm	1450-090	**09-865C**	42.65	1452-090	**09-866D**	45.20	1454-090	**09-868A**	45.40
11cm	1450-110	**09-865D**	55.20	1452-110	**09-866E**	55.50	1454-110	**09-868B**	55.50
12.5cm	1450-125	**09-865E**	63.50	1452-125	**09-866F**	64.00	1454-125	**09-868C**	64.00
15cm	1450-150	**09-865F**	75.30	1452-150	**09-866G**	75.30	1454-150	**09-868D**	75.30
18.5cm	1450-185	**09-865G**	93.10	----	----	----	1454-185	**09-868H**	93.50
24cm	1450-240	**09-865H**	165.70	1452-240	**09-866J**	168.30	1454-240	**09-868J**	165.70
32cm	1450-320	**09-865L**	303.50	----	----	----	1454-320	**09-868L**	300.00
50cm	----	----	----	----	----	----	1454-500	**09-868N**	634.00
46 × 57cm (L × W)	----	----	----	----	----	----	1454-917	**09-868P**	792.00

Hardened Ashless Circles

Maximum ash of 0.006%

- Acid hardened, which reduces ash to an extremely low level
- Tough, hard surface; suitable for critical analytical filtrations

Whatman Grade	Whatman 540	Whatman 541	Whatman 542
Particle Retention	>8µm	>20–25µm	>2.7µm
Porosity	Medium	Coarse	Fine
Filtration Speed[1]	ASTM™, 55 seconds; Herzberg, 200 seconds	ASTM, 12 seconds; Herzberg, 34 seconds	ASTM, 250 seconds; Herzberg, 2510 seconds
Surface	Smooth, hard	Smooth, hard	Smooth, hard
Applications[2]	Gravimetric analysis of metals in acid/alkali solutions. Collecting hydroxides after precipitation by strong alkalis. Normal loading; high wet strength.	Tough, smooth surface. Coarse gelatinous precipitates. Useful for intermediate stages of gravimetric analysis	Gravimetric metal determinations. Retains fine particles under demanding conditions. Normal loading; high wet strength.

	Whatman Grade 540			Whatman Grade 541			Whatman Grade 542		
Diameter (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
2.1cm	1540-321	**09-869B**	24.95	----	----	----	----	----	----
2.4cm	1540-324	**09-869C**	24.95	----	----	----	----	----	----
4.25cm	1540-042	**09-869A**	25.35	1541-042	**09-851G**	24.95	----	----	----
4.7cm	----	----	----	1541-047	**09-851H**	27.00	----	----	----
5.5cm	1540-055	**09-869D**	28.55	1541-055	**09-851J**	29.30	1542-055	**09-852D**	29.05
7cm	1540-070	**09-869E**	30.26	1541-070	**09-851A**	34.70	1542-070	**09-852E**	34.70
9cm	1540-090	**09-869F**	45.80	1541-090	**09-851B**	45.80	1542-090	**09-852F**	45.80
11cm	1540-110	**09-869G**	55.40	1541-110	**09-851C**	52.60	1542-110	**09-852G**	55.40
12.5cm	1540-125	**09-869H**	63.70	1541-125	**09-851D**	62.40	1542-125	**09-852H**	63.70
15cm	1540-150	**09-869J**	89.90	1541-150	**09-851E**	89.90	1542-150	**09-852J**	89.90
18.5cm	----	----	----	1541-185	**09-851K**	132.70	1542-185	**09-852K**	132.70
24cm	1540-240	**09-869L**	209.00	1541-240	**09-851L**	209.50	----	----	----
32cm	----	----	----	1541-320	**09-851N**	431.00	----	----	----
40cm	----	----	----	1541-400	**09-851P**	558.87	----	----	----

[1]Filtration Speed conditions: ASTM, time for 100mL of prefiltered water to pass through 15cm quadrant-folded paper; Herzberg, time for 100mL to pass through 10cm² filter paper with 10cm constant head pressure of water. [2]Wet strengthened papers should not be used for Kjeldahl analyses.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Whatman™ Quantitative Grade Papers

Ashless Circles and Sheets

Suitable for gravity or low-suction filtration

- Designed for gravimetric analysis and the preparation of samples for instrumental analysis
- Acid washed: ash content not exceeding 0.007%
- Acid hardened to give high wet strength and chemical resistance with extremely low ash content
- Surface makes these filters suitable for a wide range of critical filtration procedures
- Manufactured with demineralized water for high purity
- Limited wet strength, use care to avoid rupturing

Whatman Grade	Whatman 40	Whatman 41
Particle Retention	>8µm	>20–25µm
Porosity	Medium	Coarse
Filtration Speed[1]	ASTM™, 75 seconds; Herzberg, 340 seconds	ASTM, 12 seconds; Herzberg, 54 seconds
Surface	Smooth	Smooth, open texture
Applications[2]	Widely used, general-purpose gravimetric grade. Medium crystalline precipitates: calcium oxalate, well-digested barium. Normal loading; limited wet strength.	Gelatinous precipitates and coarse particles. Metallurgy: iron and aluminum hydroxides. Air pollution monitoring. Normal loading; limited wet strength.

	Whatman Grade 40			Whatman Grade 41		
Diameter	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
3cm	1440-329	**09-845J**	21.77	----	**----**	----
4.25cm	1440-042	**09-845H**	28.05	1441-042	**09-850G**	22.50
4.7cm	----	**----**	----	1441-047	**09-850H**	25.20
5.5cm	1440-055	**09-845A**	30.90	1441-055	**09-850J**	22.88
7cm	1440-070	**09-845B**	32.25	1441-070	**09-850A**	32.25
9cm	1440-090	**09-845C**	44.80	1441-090	**09-850B**	42.15
11cm	1440-110	**09-845D**	53.30	1441-110	**09-850C**	50.60
12.5cm	1440-125	**09-845E**	60.30	1441-125	**09-850D**	59.00
15cm	1440-150	**09-845F**	79.90	1441-150	**09-850E**	80.60
18.5cm	1440-185	**09-845G**	117.50	1441-185	**09-850L**	117.50
24cm	1440-240	**09-845K**	186.20	1441-240	**09-850M**	186.20
32cm	1440-320	**09-845M**	376.50	1441-320	**09-850P**	372.50
8 × 10"	----	**----**	----	1441-866	**09-850Q**	225.50

Whatman Grade	Whatman 42	Whatman 43	Whatman 44
Particle Retention	>2.5µm	>16µm	>3µm
Porosity	Medium	Medium	Fine
Filtration Speed[1]	ASTM, 240 seconds; Herzberg, 1870 seconds	ASTM, 40 seconds; Herzberg, 155 seconds	ASTM, 175 seconds; Herzberg, 995 seconds
Surface	Smooth, dense texture	Smooth	Smooth, dense texture
Applications[2]	Highly retentive, for very fine precipitates. Normal loading; limited wet strength. Laboratory standard for critical gravimetric analysis.	Foodstuff and soil analyses, particle collection in air pollution monitoring for XRF analysis. Normal loading; limited wet strength.	Retains fine particles, but somewhat thinner and faster than Grade 42. Normal loading; limited wet strength.

	Whatman 42			Whatman 43			Whatman 44		
Diameter	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100	Mfr. No.	Cat. No.	Pack of 100
4.25cm	1442-042	**09-856A**	24.15	----	**----**	----	----	**----**	----
5.5cm	1442-055	**09-855AA**	28.40	----	**----**	----	----	**----**	----
7cm	1442-070	**09-855A**	34.00	----	**----**	----	1444-070	**09-860A**	32.65
9cm	1442-090	**09-855B**	45.35	1443-090	**09-856J**	45.35	1444-090	**09-860B**	45.35
11cm	1442-110	**09-855C**	55.40	1443-110	**09-856K**	55.40	1444-110	**09-860C**	55.40
12.5cm	1442-125	**09-855D**	63.90	1443-125	**09-856L**	63.90	1444-125	**09-860D**	63.90
15cm	1442-150	**09-855E**	81.00	1443-150	**09-856M**	81.00	1444-150	**09-860E**	81.00
18.5cm	1442-185	**09-855F**	119.00	1443-185	**09-856N**	119.00	1444 185	**09-860G**	120.10
24cm	1442-240	**09-856B**	192.10	----	**----**	----	1444-240	**09-860H**	190.70
32cm	1442-320	**09-856D**	389.00	----	**----**	----	----	**----**	----

[1] Filtration Speed conditions: ASTM, time for 100mL of prefiltered water to pass through 15cm quadrant-folded paper; Herzberg, time for 100mL to pass through 10cm² filter paper with 10cm constant head pressure of water.

[2] Suitable for gravity or low-suction filtration; should be used with care to avoid rupturing. Meet ASTM "ash content per circle" requirements.

Glass Fiber Filters and Prefilters

Fisherbrand® Glass Fiber Circles

Faster flow, higher retention than cellulose filters

Ideal as prefilters and for gravimetric analyses. Suitable for many corrosive applications.

- Low hygroscopicity
- Chemically and biologically inert, with no organic binders
- Offer higher retention efficiency of fine particles (<3µm in size)
- Resist clogging for greater loading capacity than cellulose paper filters
- Autoclavable and usable to 500°C (932°F)
- Filters should be used flat: folding will break the glass fibers

09-804-90A

Fisherbrand Grade	G8	G6	G4	G2
Particle Retention	2.5µm	1.6µm	1.2µm	1.0µm
Flowrate	Fast	Fast	Fast	Fast
Thickness	0.69mm	0.32mm	0.28mm	0.66mm
Weight	121g/m²	57g/m²	51g/m²	140g/m²
Applications	General purpose. Clinical specimen filtration. Recommended prefilter for 0.45µm pore size or smaller membrane filters.	General purpose. Air pollution monitoring. Biochemical biological filtration cells, precipitated proteins. Scintillation counting. Radioimmunoassays.	Water/wastewater analysis of suspended solids. Biochemical filtration. Microorganism retention. Harvesting lymphocytes, other cells. Scintillation counting.	Biological fluids, serum, blood fractions. Biochemical polymers, precipitated proteins. Industrial waste analysis. Prefilter for membranes.

	G8		G6		G4		G2	
Diameter	Cat. No.	Pack of 100	Cat. No.	Pack of 100	Cat. No.	Pack of 100	Cat. No.	Pack of 100
21mm	**09-804-21D**	67.64	**09-804-21A**	48.86	**09-804-21C**	124.93	**09-804-21B**	50.69
24mm	----	----	**09-804-24A**	29.13	**09-804-24C**	57.16	----	----
25mm	**09-804-25D**	36.43	----	----	----	----	----	----
42.5mm	**09-804-42D**	41.95	**09-804-42A**	33.23	**09-804-42C**	84.31	**09-804-42B**	59.47
55mm	**09-804-55D**	57.57	**09-804-55A**	38.00	**09-804-55C**	83.23	**09-804-55B**	88.45
70mm	**09-804-70D**	73.90	**09-804-70A**	44.23	**09-804-70C**	110.60	----	----
90mm	----	----	**09-804-90A**	70.72	**09-804-90C**	149.00	----	----
110mm	----	----	**09-804-110A**	110.80	----	----	----	----
125mm	----	----	**09-804-125A**	121.72	----	----	----	----
150mm	----	----	**09-804-150A**	126.70	----	----	----	----

Fisherbrand® Filters for TCLP

Binder-free, borosilicate glass fiber filters have 0.7 micron pore size

- 47mm size recommended for use with 09-753-1A Filter Holder in filtering highly granular samples or those with <10% solids
- 90mm size recommended for use with 09-753-2 Filter Holder with highly granular samples
- 142mm size provides four times the filtration area of 47mm filters (ideal for samples with >10% solids); recommended for use with 09-753-25J Filter Holder with reservoir

09-804-142H

COMPLIANCE:
Meet U.S. EPA requirements for Toxicity Characteristic Leaching Procedure (TCLP).

Diameter	Recommended Filter Holder	Cat. No.	Pack of 100
47mm	09-753-1A	**09-804-142H**	35.85
142mm	09-753-25J	**09-804-142G**	140.80

Fisherbrand® Filter Forceps

Easy, effortless handling of membranes and glass fiber filters

09-753-50

- Made of Type 304 stainless steel
- Broad unserrated tips to prevent damage to filters
- Serrated grip area on blades lets you hold forceps securely and correctly, without slippage
- Sterilize by autoclave or by dipping tips in alcohol and "flaming"
- Does not corrode in acids or acidic atmospheres

ORDERING INFORMATION:
Length: 4.50" (11.4cm).

Description	Length	Cat. No.	Each
Membrane Forceps	4.12"	**09-753-50**	25.06

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Glass Fiber Filters

For prefiltration and contamination analysis

Disc diameters to fit either O-ring I.D. or filter O.D. Available in three grades.

- AP15, 20 and 25 Series filters are made of borosilicate microfiber glass with acrylic binder resin
- Filters retain structural integrity without weight loss when ignited to 550°C (1022°F) after sample filtration
- Autoclavable

AP15 025 00

	Glass Fiber Filters			Glass Fiber Filters Without Binders
Series	**AP15**	**AP20**	**AP25**	**AP40**
Thickness	0.790mm	0.38mm	1.2mm	0.475mm
Flowrate	3–3.5 sec./100mL	1–2 sec./100mL	1–2 sec./100mL	274–456 sec./100mL
Max. Temp.	----	----	----	550°C
Weight	50g/m²	59g/m²	140g/m²	72g/m²
Applications	Prefiltration for 0.2–0.6µm filters.	Prefiltration for 0.8–8.0µm filters. Upstream protection of AP15 filters.	Prefiltration for 0.8–8.0µm filters. Suited for proteinaceous and heavily contaminated liquids. For upstream protection of AP15 filters.	Determination of volatile suspended matter in wastewater and industrial effluents. Also for use in aerosol monitoring, and TCLP analysis.

Series	AP15		AP20		AP25		AP40	
Diameter	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**
10mm	----	----	----	----	**AP25 010 00**	100/43.30	**AP40 010 00**	100/43.30
13mm	----	----	**AP20 013 00**	100/43.30	**AP25 013 00**	100/43.30	----	----
22mm	----	----	----	----	**AP25 022 00**	100/43.30	----	----
24mm	----	----	----	----	----	----	**AP40 024 05**	500/160.40
25mm	**AP15 025 00**	100/44.25	**AP20 025 00**	100/43.30	**AP25 025 00**	100/43.05	----	----
37mm	----	----	----	----	----	----	**AP40 037 05**	500/197.20
42mm	**AP15 042 00**	100/63.90	**AP20 042 00**	100/63.90	**AP25 042 00**	100/64.60	----	----
47mm	**AP15 047 00**	100/67.50	**AP20 047 00**	100/67.50	**AP25 047 00**	100/67.50	**AP40 047 00**	100/52.10
75mm	**AP15 075 00**	100/93.80	**AP20 075 00**	100/94.30	**AP25 075 00**	100/83.20	----	----
90mm	**AP15 090 00**	100/110.90	**AP20 090 00**	100/110.90	**AP25 090 00**	100/110.90	**AP40 090 00**	100/105.00
124mm	**AP15 124 50**	50/140.90	**AP20 124 50**	50/140.90	**AP25 124 50**	50/140.90	----	----
142mm	**AP15 142 50**	50/169.00	**AP20 142 50**	50/169.00	**AP25 142 50**	50/169.00	**AP40 142 50**	50/132.80

EMD Millipore™ Quartz Fiber Filters

Perfect for measuring heavy metal concentrations and small amounts of particles

- Suitable for use in U.S. EPA PM10 ambient air monitoring method
- Pure quartz composition prevents the filters from reacting with acidic gases
- Exhibit good weight and form stability
- Can be sterilized by EtO, gamma or autoclave (121°C at 1 bar)

AQFA 037 00

Typical Characteristics	
Thickness	500µm
Flowrate	1.6mL/min./cm²
Max. Filtration Temp.	550°C (1022°F)
Weight	75g/m²
Sterilization	Autoclavable

Diameter	Cat. No.	Pack of
37mm	**AQFA 037 00**	100/123.20
47mm	**AQFA 047 00**	100/144.20
90mm	**AQFA 090 50**	50/150.70
110mm	**AQFA 110 50**	50/178.80

EMD Millipore™ Silver Membrane Filters

Excellent chemical and temperature resistance

Strong, homogenous structure allows resterilization multiple times without changing characteristics or loss of performance.

- Pure metallic silver
- Constructed of 99.97% pure metallic silver
- Designed to withstand extreme chemical and thermal stress
- Referenced by NIOSH for collecting airborne contaminants[†]
- Filter surface: plain

APPLICATIONS:

- For air monitoring of carbon black, coal tar products, coke oven emissions and silica
- For crystalline silica analysis by X-ray diffraction techniques
- For collecting airborne contaminants
- For applications involving aggressive fluids and/or high temperatures

AG4502550

Typical Characteristics	
Millipore Series	AG45
Particle Retention	0.45µm
Thickness	55µm
Flowrate	25mL/min./cm^2
Max. Filtration Temp.	550°C
Sterilization	Autoclavable

Series	Diameter	Cat. No.	Pack of 50
AG45	25mm	**AG4502550**	593.50

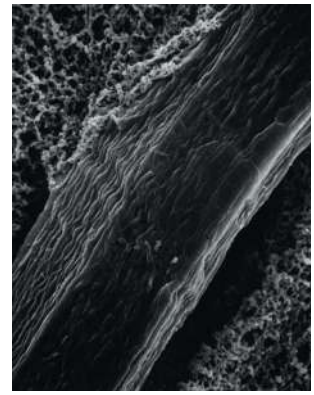
[†]*U.S. National Institute of Safety and Health, Manual of Analytical Methods, April 1977 and August 1978*

EMD Millipore™ Reinforced Membrane Filters

Contain no asbestos or fiberglass

Made of homogenous microporous polymers of cellulose esters formed around a polyester web. Available in three grades.

- RW03 filters offer the highest retention efficiency in submicron clarification; can also serve as prefilters for 0.2 to 0.45µm filters
- RW06 and RW19 filters provide lower retention efficiencies than the RW03 Series in submicron clarification
- RW06 filters can also serve as prefilters for 0.45 to 0.8µm filters
- RW19 filters are suitable as prefilters for 0.8 to 1.2µm filters



RW03 047 00

Typical Characteristics			
Millipore Series	RW03	RW06	RW19
Particle Retention	0.45µm	0.8µm	1.2µm
Thickness	0.15–0.27mm	0.15–0.27mm	0.15–0.27mm
Flowrate	45–85 sec./ 500mL	16–28 sec./ 500mL	8–15 sec./ 500mL
Max. Filtration Temperature	75°C (167°F)	75°C (167°F)	75°C (167°F)
Sterilization	Autoclavable	Autoclavable	Autoclavable
Applications	Submicron clarification. Prefiltration for 0.2–0.45µm filters.	Prefiltration for 0.45–0.8µm filters.	Prefiltration for 0.8–1.2µm filters.

Diameter	Cat. No.	Pack of
RW03 Series		
47mm	**RW03 047 00**	100/66.40
90mm	**RW03 090 00**	100/122.10
RW06 Series		
47mm	**RW06 047 00**	100/66.20
90mm	**RW06 090 00**	100/121.50
142mm	**RW06 142 50**	50/140.90
RW19 Series		
47mm	**RW19 047 00**	100/66.20
142mm	**RW19 142 50**	50/137.38

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Whatman™ Acid-Treated Low-Metal TCLP Filters

Binder-free filters

The Whatman TCLP Filter is manufactured using a binder-free borosilicate glass microfiber with a particle retention rating of 0.6µm to 0.8µm.

- Resistant to acids and bases
- Available in six diameters, including sizes to fit Büchner funnels and zero-headspace extraction units
- Pretreatment with acid eliminates need to acid-wash filters in your lab for reduced analysis time and reagent costs

COMPLIANCE:
Conform to requirements of U.S. EPA Method 1311 Toxicity Characteristic Leaching Procedure (TCLP), including 0.6 to 0.8µm particle retention requirement.

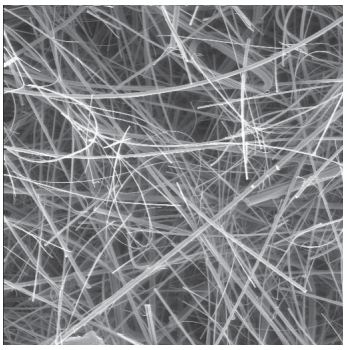
Diameter	Mfr. No.	Cat. No.	Pack of
47mm	1810-047	**09-921-7**	100/150.30
90mm	1810-090	**09-921-8**	50/119.80
110mm	1810-110	**09-921-9**	50/173.90
125mm	1810-125	**09-922-0**	50/257.00
142mm	1810-142	**09-922-1**	50/313.50
150mm	1810-150	**09-922-2**	50/340.50

09-921-8

EMD Millipore™ Glass Fiber Filters Without Binders

Six grades of filters made of borosilicate microfiber glass without binders

- For environmental, gravimetric and biochemical applications
- AP40 Series is used for contamination analysis only
- Can be rendered transparent by immersing in benzene, ethyl alcohol or other solvents with Refractive Index of 1.5097
- Autoclavable



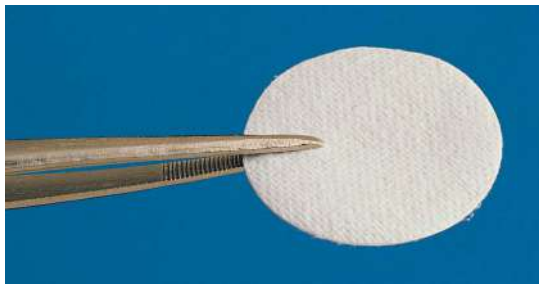
APFA 025 00

	Glass Fiber Filters Without Binders				
Series	APFA	APFB	APFC	APFD	APFF
Particle Retention	1.6µm	1.0µm	1.2µm	2.7µm	0.7µm
Thickness	0.5–0.63mm	0.87–0.94mm	0.32–0.36mm	0.98–1.04mm	0.59–0.63mm
Flowrate	30–64 sec./100mL	102–140 sec./100mL	70–100 sec./100mL	12–28 sec./100mL	274–456 sec./100mL
Max. Temp.	500°C	500°C	500°C	500°C	500°C
Weight	53g/m^2	143g/m^2	53g/m^2	120g/m^2	75g/m^2
Applications	Wastewater monitoring. Collection of suspended particles in grease. Cell collection. Filtration of protein and nucleic acid precipitates.	Liquid clarification. Quantification of solids in suspensions of fine particles. Scintillation counting.	Determination of total suspended solids in drinking water. Filtration of proteins of nucleic acid TCA precipitates. Collection of cells and microorganisms.	Clarification of suspensions with particles >1µm. Collection of cells and microorganisms.	Filtration of extremely fine precipitates such as proteins, nucleic acids and serum precipitates.

Series	**APFA**		**APFB**		**APFC**		**APFD**		**APFF**	
Diameter	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**	**Cat. No.**	**Pack of**
25mm	----	----	**APFB 025 00**	100/55.00	**APFC 025 00**	100/54.10	**APFD 025 00**	100/30.30	**APFF 025 00**	100/85.70
47mm	**APFA 047 00**	100/43.05	**APFB 047 00**	100/67.50	**APFC 047 00**	100/67.50	**APFD 047 00**	100/43.05	**APFF 047 00**	100/103.90
90mm	----	----	----	----	**APFC 090 50**	50/73.60	**APFD 090 50**	50/53.80	**APFF 090 50**	50/120.50

Whatman™ Binder-Free Glass Microfiber Filters Type GF/A

Offers fine particle retention



09-874-16

- High flowrate
- Good loading capacity

APPLICATIONS:

- Water pollution effluent monitoring
- Filtering water, algae, bacterial cultures
- Foodstuff analyses
- Protein filtration
- Radioimmunoassay of weak ß-emitters
- Gravimetric determination of airborne particulates, stack sampling and absorption methods of air pollution monitoring

Specifications	
Whatman Grade	GF/A
Particle Retention[1]	1.6µm
Air Flow Rate[2]	13.0 sec./100mL
Thickness	0.26mm
Weight	53g/m²
Max. Temp.	500°C (932°F)

Outside Dia. of circles or L × W of sheets	Mfr. No.	Cat. No.	Pack of
Circles			
2.1cm dia.	1820-021	**09-874-10**	100/37.75
2.4cm dia.	1820-024	**09-874-12**	100/37.25
2.5cm dia.	1820-025	**09-874-12A**	100/37.30
3.7cm dia.	1820-037	**09-874-12B**	100/42.95
4.25cm dia.	1820-042	**09-874-14**	100/45.85
4.7cm dia.	1820-047	**09-874-14A**	100/50.50
5.5cm dia.	1820-055	**09-874-16**	100/53.00
7.0cm dia.	1820-070	**09-874-16A**	100/64.60
9.0cm dia.	1820-090	**09-874-16B**	100/104.60
11.0cm dia.	1820-110	**09-874-16C**	100/151.00
12.5cm dia.	1820-125	**09-874-16D**	100/189.60
15.0cm dia.	1820-150	**09-874-16E**	100/329.00
3.0cm	1820-030	**09-915**	100/44.37
Sheets			
46 × 57cm	1820-915	**09-874-16G**	100/737.00

[1] 2% initial penetration values using solid particulates dispersed in water
[2] Vacuum filtration of prefiltered water through 5.5cm flat filter at 1.9psi

Whatman™ Binder-Free Glass Microfiber Filters Type GF/B

Extra thick for increased loading capacity

09-874-24

- Higher wet strength
- High-loading capacity
- **APPLICATIONS:**
  Particularly useful when liquid clarification or solids quantification is required for heavily loaded fine particulate suspensions
- Used in LSC techniques where high loading capacity is required
- Can be used as a finely retentive membrane filter

Specifications	
Whatman Grade	GF/B
Particle Retention[1]	1.0µm
Air Flow Rate[2]	5.5 sec./100mL
Thickness	0.68mm
Weight	143g/m²
Max. Temp	500°C (932°F)

Dia. (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of
Circles			
2.1cm dia.	1821-021	**09-874-20**	100/68.30
2.4cm dia.	1821-024	**09-874-22**	100/70.20
2.5cm dia.	1821-025	**09-874-22A**	100/72.70
3.7cm dia.	1821-037	**09-874-22B**	100/90.20
4.25cm dia.	1821-042	**09-874-24**	100/99.20
4.7cm dia.	1821-047	**09-874-24A**	100/115.50
5.5cm dia.	1821-055	**09-874-26**	100/126.20
7.0cm dia.	1821-070	**09-874-26A**	100/167.40
9.0cm dia.	1821-090	**09-874-26B**	25/59.00
11.0cm dia.	1821-110	**09-874-26C**	25/83.80
12.5cm dia.	1821-125	**09-874-26D**	25/106.60
15.0cm dia.	1821-150	**09-874-26E**	25/160.00
18.5cm dia.	1821-185	**09-927-765**	128.80
Sheets			
46 × 57cm (L × W)	1821-914	**09-874-28**	5/399.18
46 × 57cm (L × W)	1821-915	**09-874-28A**	25/1534.00
5.7 × 31cm (L × W)	1821-271	**09-927-766**	413.50

[1] 2% initial penetration values using solid particulates dispersed in water
[2] Vacuum filtration of prefiltered water through 5.5cm flat filter at 1.9psi

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Whatman™ Binder-Free Glass Microfiber Filters Type GF/C

Combines fine particle retention with good flow rate

09-874-34

- Medium to fast, high loading
- Airflow: 6.7s/100mL/"^{2}

APPLICATIONS:

- Air monitoring
- Collection of suspended solids in potable water, natural and industrial wastes
- Clarification of aqueous liquids containing low to medium levels of fine particulates
- Cell harvesting
- Liquid scintillation counting
- Marine chemistry and biochemistry
- Radioimmunoassay procedures

Specifications	
Whatman Grade	GF/C
Particle Retention[1]	1.2µm
Air Flow Rate[2]	10.5 sec./100mL
Thickness	0.26mm
Weight	53g/m^2
Max. Temp.	500°C (932°F)

Dia. (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of
Circles			
2.1cm dia.	1822-021	**09-874-30**	100/73.90
2.4cm dia.	1822-024	**09-874-32**	100/77.70
2.5cm dia.	1822-025	**09-874-32A**	100/77.70
3.7cm dia.	1822-037	**09-874-32B**	100/90.00
4.25cm dia.	1822-042	**09-874-34**	100/88.60
4.7cm dia.	1822-047	**09-874-35**	100/115.10
5.5cm dia.	1822-055	**09-874-36**	100/136.30
7.0cm dia.	1822-070	**09-874-38**	100/153.40
9.0cm dia.	1822-090	**09-874-39**	100/212.00
11.0cm dia.	1822-110	**09-874-36A**	100/327.00
12.5cm dia.	1822-125	**09-874-37**	100/368.00
15.0cm dia.	1822-150	**09-874-37A**	100/680.50
18.5cm dia.	1822-185	**09-927-361**	100/883.40
10cm dia.	1822-9916	**09-927-362**	100/346.73
5cm dia.	1822-050	**09-927-423**	100/106.52
Sheets			
46 × 57cm (L × W)	1822-915	**09-874-40A**	25/1155.00
20 × 25.4cm (L × W)	1822-866	**09-927-421**	100/375.87

[1] 2% initial penetration values using solid particulates dispersed in water
[2] Vacuum filtration of prefiltered water through 5.5cm flat filter at 1.9psi

Whatman™ Binder-Free Glass Microfiber Filters Type GF/D

For general purpose, routine filtration

09-874-44

- Extra thick; very high speed
- Very high loading capacity, high wet strength

APPLICATIONS:

- Effective prefilter for membranes
- Extend life of membrane filters
- Can be used with GF/B filters to provide efficient graded prefilter protection for membranes

Specifications	
Whatman Grade	GF/D
Particle Retention[1]	2.7µm
Air Flow Rate[2]	16.5 sec./100mL
Thickness	0.68mm
Weight	120g/m^2
Max. Temp.	500°C (932°F)
Sterilization	Autoclavable

Dia. (circles)	Mfr. No.	Cat. No.	Pack of
1.0cm dia.	1823-010	**09-874-40B**	100/43.25
2.1cm dia.	1823-021	**09-874-41**	100/43.25
2.4cm dia.	1823-024	**09-874-42A**	100/42.60
2.5cm dia.	1823-025	**09-874-44**	100/43.25
4.25cm dia.	1823-042	**09-874-46B**	100/55.70
4.7cm dia.	1823-047	**09-874-48**	100/64.30
5.5cm dia.	1823-055	**09-874-46C**	100/75.30
7.0cm dia.	1823-070	**09-874-47**	100/104.00
9.0cm dia.	1823-090	**09-874-47A**	25/43.90
11.0cm dia.	1823-110	**09-874-47B**	25/58.10
12.5cm dia.	1823-125	**09-874-47C**	25/77.50
14.2cm dia.	1823-142	**09-874-47H**	25/121.30
15.0cm dia.	1823-150	**09-874-47D**	25/129.10
25.7cm dia.	1823-257	**09-874-47E**	25/170.80

[1] 2% initial penetration values using solid particulates dispersed in water
[2] Vacuum filtration of prefiltered water through 5.5cm flat filter at 1.9psi

Whatman™ Binder-Free Glass Microfiber Filters Type 934-AH

Used for determining total suspended solids in water

- Excellent fine-particle retention: allows for high particle retention efficiency when filtering large volumes
- Binder-free, high-retention borosilicate glass microfiber filter which withstands temperatures over 500°C
- Available in wide range of sizes: in circle and sheet formats
- High loading capacity: capable of processing very turbid streams

09-873DD

APPLICATIONS:

- Water pollution monitoring of suspended solids
- Cell harvesting
- Liquid scintillation counting
- Air pollution monitoring

Specifications	
Whatman Grade	934/AH
Particle Retention	1.5µm
Filtration Speed (Herzberg)	47 sec./100mL
Thickness	435µm
Weight	64g/m²
Max. Temp.	500°C (932°F)

Dia. (circles) or L × W (sheets)	Mfr. No.	Cat. No.	Pack of 100
Circles			
2.1cm dia.	1827-021	**09-873A**	28.70
2.4cm dia.	1827-024	**09-873B**	30.05
2.5cm dia.	1827-025	**09-870A**	32.25
3.0cm dia.	1827-030	**09-870C**	35.90
3.2cm dia.	1827-032	**09-873BB**	37.10
3.5cm dia.	1827-035	**09-870D**	41.85
3.7cm dia.	1827-037	**09-873C**	41.85
4.25cm dia.	1827-042	**09-873D**	51.30
4.7cm dia.	1827-047	**09-873DD**	52.60
5.5cm dia.	1827-055	**09-873E**	56.30
7.0cm dia.	1827-070	**09-873F**	75.20
8.26cm dia.	1827-082	**09-874**	111.40
9.0cm dia.	1827-090	**09-873G**	114.00
10.5cm dia.	1827-105	**09-870F**	143.30
11.0cm dia.	1827-110	**09-873H**	151.90
12.5cm dia.	1827-125	**09-873J**	180.80
15.0cm dia.	1827-150	**09-873K**	224.00
18.5cm dia.	1827-185	**09-870H**	339.50
24.0cm dia.	1827-240	**09-870J**	568.50
32.0cm dia.	1827-320	**09-870K**	953.50
Sheets			
5 × 31cm (L × W)	1827-808	**09-874-65**	137.30
20 × 25cm (L × W)	1827-866	**09-870Q**	433.50
30 × 38cm (L × W)	1827-889	**09-870S**	864.50

Whatman™ Binder-Free Glass Microfiber Filters Type GF/F

Binder-free borosilicate glass

09-874-66

- Retain fine particles down to 0.7µm
- Very rapid flowrate, extremely high loading capacity
- Autoclavable, usable to 500°C

APPLICATIONS:

- Effective in filtering finely precipitated proteins
- Can be used with type GF/D as a prefilter for clarification of extremely difficult biochemical solutions and nucleic acids

Specifications			
Whatman Grade	GF/F	GMF 150 Multigrade	
Particle Retention†	0.7µm	1.2µm	2.0µm
Air Flow Rate‡	19 sec./100mL/"	3.1 sec./100mL/"	1.5 sec./100mL/"
Thickness	420µm	730µm	750µm
Weight	75g/m²	139g/m²	149g/m²
Max. Temperature	500°C (932°F)	----	----

Diameter	Mfr. No.	Cat. No.	Pack of
2.1cm	1825-021	**09-874-60**	100/113.80
2.4cm	1825-024	**09-874-62**	100/119.90
2.5cm	1825-025	**09-874-64**	100/113.90
3.7cm	1825-037	**09-874-70**	100/146.80
4.25cm	1825-042	**09-874-66**	100/159.10
4.7cm	1825-047	**09-874-71**	100/156.80
5.5cm	1825-055	**09-874-68**	100/201.50
7.0cm	1825-070	**09-874-72**	100/234.50
9.0cm	1825-090	**09-874-73**	25/83.30
11.0cm	1825-110	**09-874-74**	25/122.30
12.5cm	1825-125	**09-874-75**	25/145.60
14.2cm	1825-142	**09-874-80**	25/191.70
15.0cm	1825-150	**09-874-76**	76/222.50
29.3cm	1825-293	**09-874-78**	25/856.50

† 2% initial penetration values using solid particulates dispersed in water.
‡ Vacuum filtration of prefiltered water through 5.5cm flat filter at 1.9psi

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Hardware

Fisherbrand® Glass Microanalysis Vacuum Filter Holders

Filter Type	Glass Microanalysis, 13mm		Glass Microanalysis, 25mm		Glass Microanalysis, 47mm				Glass Microanalysis, 90mm
Applications	Filtering small liquid volumes in RNA/DNA hybridizations, collecting biological cells and other materials, preparing small volumes of sterile filtrate.		Filtering small volumes of fluids in biological or particulate contamination studies, gravimetric analyses, radiochemical determinations, biological tests.		Analyzing liquids for particulate or biological contamination; water/wastewater analysis, pharmaceutical QC, yeast and mold detection, preparing ultraclean or sterile filtrates and organic solvent purification.				Filtering bioburden/heavy particle load samples; ultracleaning or filtering photoresists, viscous fluids when high flowrate is required; colony hybridization studies.
Filter Size	25mm		25mm		47mm				90mm (82mm, microbiology)
Prefilter Size	N/A		16mm		35mm				70mm
Filtration Area	1.1cm²		2.1cm²		9.6cm²				38.5cm²
Max. Capacity	100mL		25mL		1000mL	300mL	300mL	300mL	1000mL
Grad. Volume	----		15mL		----	250mL	250mL	250mL	----
Connection	No. 5 silicone stopper for 125mL flasks.†		No. 5 silicone stopper for 125mL flasks.†		$ 40/35 for 1L flask or manifold	No. 8 silicone stopper for 1L flask or manifold	No. 8 silicone stopper for 1L flask or manifold	No. 8 silicone stopper for 1L flask or manifold	No. 8 silicone stopper for 1L flask or manifold
Sterilization‡	Autoclavable		Autoclavable		Autoclavable				Autoclavable
Features	Use 25mm membranes, concentrate sample into 1.1cm² area (13mm diameter). Two models: 1) with 100mL borosilicate funnel; 2) with 13mL microfunnel for small volumes, 100mL funnel with tapered ground glass connector that fits inside microfunnel, increases capacity.		Use 25mm membranes, concentrate sample into 2.1cm² area. Available with integral fritted glass support to retain sample, or removable stainless-steel mesh support screen and PTFE gasket for ultraclean filtrate, proteinaceous solutions, optimizing flow.		Use 47mm membranes. Available with integral glass support for organic (fritted only), biological, or general applications; with stainless-steel support for ultraclean filtrate or proteinaceous solutions; or with stainless-steel support plus PTFE gasket, PTFE-coated sealing flange, to prevent membrane from sticking to the base after autoclaving.				Integral fritted glass support assures that filter sits flat on support base for uniform distribution of sample. Filtration area is four times larger than on 47mm holders. (After filtration, 90mm membrane will fit into 150mm dish; 82mm will fit 100mm Petri dish.)
Components	Ungraduated borosilicate glass funnel(s), base, fritted glass support; anodized aluminum spring clamp; No. 5 stopper.		Flare-top 15mL borosilicate glass funnel (graduated 5 to 15mL in 1mL increments) and base; anodized aluminum spring clamp; No. 5 stopper.		Borosilicate glass funnel (graduated 100 to 300 in 25mL increments) and base; anodized aluminum clamp; No. 8 stopper. 09-753-102 comes with borosilicate glass funnel (graduated 300 to 1000mL in 50mL increments), base, fritted glass support; anodized aluminum clamp; $ 40/35 connection.				Borosilicate glass funnel (graduated 100 to 300mL in 50mL increments), base, fritted glass support; anodized aluminum clamp; No. 8 stopper.
Holder With	100mL Funnel	13mL/100mL Funnels	Fritted Glass Support	Stainless-Steel Support	Fritted Glass Support	Fritted Glass Support	Steel Support (100 mesh)	PTFE Gasket and Flange	Fritted Glass Support
Cat. No.	**09-753A**	**09-753C**	**09-753E**	**09-753G**	**09-753-102**	**09-753-1A**	**09-753-1C**	**09-753-1E**	**09-753-2**
Each	286.50	317.00	260.50	298.95	440.00	285.00	307.37	461.50	777.50

† A No. 8B stopper (09-753-9) is required to adapt holders to manifold systems.
‡ With or without membrane, at 121°C (250°F) for 20 minutes.

EMD Millipore™ Stainless-Steel 13 and 25mm Filter Holders

Ultraclean or sterilize small volumes dispensed by syringe

- Stainless-steel housing
- PTFE gaskets (13, 25mm) and O-ring (13mm)
- Autoclavable with filter in place
- Filtration area: 13mm Swinnex™ style, 0.8cm2; 25mm Microsyringe style, 3.9cm2

XX30 025 00

Description	Cat. No.	Each
13mm Swinnex	**XX30 012 00**	100.60
25mm Microsyringe	**XX30 025 00**	213.00

EMD Millipore™ 25mm Stainless-Steel Filter Holders and Accessories

For filtration of gases or liquids at inlet pressures of 20 to 700 bar

- Differential pressure depends on filter type used
- All filter holders may be autoclaved
- Holders can be autoclaved with filter in-place when PTFE-coated support screens are used
- Gaskets: Buna-N
- Filtration area: 2.2cm^2
- Prefilter diameter: 10mm
- Maximum inlet pressure: 345 bar
- Inlet/Outlet: 1/8" NPTF
- Dia. × H: 5.1 × 3.2cm

XX45 025 00

Description	Cat. No.	Each
Filter Holder		
25mm, High pressure	**XX45 025 00**	448.50
Accessory		
Replacement Parts Kit	**XX45 025 RK**	324.50

EMD Millipore™ 47mm Glass Vacuum Filter Holders

For vacuum only

- Sanitize with sulfuric acid or hydrochloric acid
- Sterilize with UV sterilizer (2 to 3 min.) or autoclave (20 min. at 121°C)
- Capacity: 300mL

XX10 047 00

Glass Filter Holder

- For bacteriological analysis of water (with Millipore membrane filters HAWG 047 S1) and for analysis of suspended solids in water (using Millipore depth filters AP40 047 05 or AP20 047 00)
- Includes borosilicate glass funnel and base, coarse-frit glass filter support, anodized aluminum spring clamp, and neoprene stopper

Glass Filter Holder with PTFE-Coated Sealing Surfaces

- Useful for bacteriological analysis applications where filter holder must be autoclaved with membrane in place
- Coated sealing surfaces prevent membrane adhesion and filter damage during autoclaving
- Includes borosilicate glass, PTFE-faced funnel and base, anodized aluminum spring clamp and neoprene stopper

Glass Filter Holder with Stainless-Steel Support

- For use in particulate contamination analysis of oils and hydraulic fluids by gravimetric or particulate counting methods
- Also suitable for use in exfoliative cytology applications
- Includes borosilicate glass funnel and base with stainless-steel screen filter support, anodized aluminum spring clamp and neoprene stopper

NOTES:
Glass (Cat. No. XX10 047 00) and stainless-steel screen (Cat. No. XX10 047 30) holders not recommended for use with flammable liquids.

Description	Cat. No.	Each
Glass Filter Holder	**XX10 047 00**	216.00
PTFE-faced Glass Filter Holder	**XX10 047 20**	310.50
Stainless-steel Screen Glass Filter Holder: includes funnel, base, stopper, clamp	**XX10 047 30**	310.50

EMD Millipore™ 25mm Glass Microanalysis Vacuum Filter Holder and Support

Vacuum filter small volumes for particulate or biological contamination analysis

- Funnel capacity: 15mL
- Filtration area: 2.5cm^2
- Not autoclavable with filter in place

INCLUDES: Borosilicate glass funnel and base; fritted glass or removable stainless-steel filter support; anodized aluminum spring clamp; No. 5 stopper

Description	Cat. No.	Each
With Fritted Glass Support	**XX10 025 00**	267.50
With Stainless-steel Support	**XX10 025 30**	296.50

XX10 025 00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

EMD Millipore™ 47mm All-Glass Vacuum Filter Holder

Vacuum filter aqueous, organic or corrosive liquids for particulate contamination analysis

- Borosilicate glass parts with ground glass sealing surfaces
- Vacuum connection to integral base and flask cap is above filtrate exit level
- Avoids drawing filtrate droplets into vacuum tubing
- Funnel capacity: 300mL
- Flask capacity: 1L

XX15 047 00

APPLICATIONS: Recommended for HPLC solvent filtration

NOTES: Not recommended for use with flammable liquids.

Description	Cat. No.	Each
With Fritted Glass Support	XX15 047 00	523.00

EMD Millipore™ 90mm Glass Vacuum Filter Holder

Vacuum filter aqueous, organic or corrosive liquids for particulate contamination analysis

- Ground glass sealing surfaces
- Vacuum connection to integral base and flask cap is above filtrate exit level
- Prevents the drawing of filtrate into vacuum tubing
- Fittings: 0.25" (6mm) O.D. tubulated-cap sidearm to vacuum
- Filter dia.: 90mm
- Funnel capacity: 32 oz. (1L)

XX10 090 20

APPLICATIONS: Recommended for HPLC solvent fltration

INCLUDES: Borosilicate glass funnel, base and tubulated cap; PTFE-coated, stainless-steel support screen; anodized aluminum spring clamp.

NOTES: Do not use with flammable liquids

Description	Cat. No.	Each
90mm Glass Filter Holder	XX10 090 20	906.50

EMD Millipore™ 47mm Hydrosol™ Stainless-Steel Vacuum Filter Holder

For particulate or biological contamination analysis via vacuum filtration

- For prefilter, use Millipore 35mm Type AP depth prefilter or 47mm Type AW prefilter
- Stopper fits standard 1L flask or filter manifold
- Not autoclavable with filter in place
- Funnel capacity: 21.9 oz. (650mL)

XX20 047 20

INCLUDES:
Grounding set for use with flammable liquids; stainless-steel funnel, base, and filter support screen; anodized aluminum locking ring; nylon lockwheels; PTFE resin gaskets; silicone stopper.

Description	Cat. No.	Each
47mm Hydrosol Stainless-Steel Vacuum Filter Holder	XX20 047 20	996.00

EMD Millipore™ Swinnex™ Filter Holders

Ultraclean or sterilize small volumes of liquids dispensed by syringe

- 13, 25 and 47mm holders
- Connect Swinnex 47 with tubing to pressurized reservoir or automatic filling machine for filtering larger volumes
- 13 and 25mm: polypropylene with silicone gasket
- 47mm: polypropylene with silicone O-rings
- Sterilize with a filter in place

Left to right: SX00 047 00, SX00 025 00, SX00 013 00

Description	Cat. No.	Pack of
13mm dia.	SX00 013 00	10/84.60
25mm dia.	SX00 025 00	12/170.30
47mm dia.	SX00 047 00	8/432.00

Sartorius™ In-Line Filter Holders

Available in choice of polycarbonate and stainless-steel

- Autoclavable

Stainless-Steel Holder for In-Line Filter

- Dia.: 25mm
- Connectors: hose nipples DN10
- Filtration area: 3cm^2
- Weight: 170g
- Materials: stainless-steel, silicone O-ring (21 + 2mm) and aluminium closing ring
- Maximum operating pressure: 500kPa (72.5psi)

Transparent Polycarbonate Holder In-Line Filter

- Dia.: 50mm
- Threads for Connectors: M 12 + 1 female thread
- Filtration area: 12.5cm^2
- Weight: 83g
- Materials: Polycarbonate top part, base part and hose nipple, polypropylene filter support, silicone O-ring (40 + 5mm)
- Maximum operating pressure: 700kPa (101.5psi)

14-555-542

Material	Diameter	Mfr. No.	Cat. No.	Each
Stainless-steel	25mm	16251	14-555-542	309.86
Transparent polycarbonate	50mm	16508----------B	14-555-555	276.00

Sartorius™ Syringe Filter Holders

Silicone gasket enables a leak-free filtration

- Polycarbonate make
- Autoclavable
- Connectors include female Luer Lock inlet, luer slip outlet
- Maximum operating pressure is 700kPa (101.5psi)
- Dead volume of <0.3mL
- Clear

14-555-556

Diameter	Mfr. No.	Cat. No.	Each
13mm	16514----------E	**14-555-556**	92.30
25mm	16517----------E	**14-555-557**	100.70

Kimble-Chase Kontes™ Ultra-Ware™ 25, 47 and 90mm Microfiltration Assemblies

Vacuum filtration assemblies

- 25, 47 and 90mm Filter Holders
- Use with either flasks or manifolds
- Include silicone stoppers (No. 5 for 25mm models, No. 8 for 47 and 90mm models)

Models with Flasks

- Integral No. 2 vacuum connection in filter support base
- Designed to prevent contamination of vacuum line by filtrate droplets
- ₮ 40/35 joint connection to flasks
- Glass models eliminate phthalate contamination from silicone and neoprene stoppers, as well as metal contaminate extraction by acid-preserved samples; ideal for use with Empore™ extraction discs

Models with Bottles

- Borosilicate glass adapter designed to fit media bottles directly
- Fritted glass support base connects directly to funnel assembly and to the bottle with special PBT caps and PTFE-faced silicone sealing rings
- Model K953800-5347 adds a removable Type 316 stainless-steel support screen for viscous or proteinaceous solutions
- Adapter has: GL-45 thread to 1L vacuum- and pressure-rated media-style bottle; polypropylene tubing adapter with size 108 Viton™ O-ring

Filter Holders (Support Bases)

- Glass: Coarse fritted glass support; for analysis of particulate or microbiological contamination
- Replaceable Glass: Exchangeable if clogged or if sample-to-sample cross-contamination is a concern
- Type 316 Stainless-Steel: Metal support screen with glass support base; for viscous or proteinaceous solutions or to produce ultraclean filtrate
- PTFE: PTFE coating on fritted glass support and on funnel prevent membrane from adhering to ground glass surface; only these models permit autoclaving with membrane in place

INCLUDES: Graduated glass funnel, anodized aluminum clamp, filter support base, silicone stopper.

REQUIRES: 25, 47 and 90mm filter holders with silicone stoppers require flask or manifold with vacuum connection.

Support Material	Approximate H × W	Funnel Capacity	Flask Capacity	Mfr. No.	Cat. No.	Each
25mm Filter Holders for Flasks or Manifolds						
Glass	6 × 1" (15.2 × 2.5cm)	15mL	----	953705-0000	**K953705-0000**	186.90
47mm Filter Holders for Flasks or Manifolds						
Glass	9 × 3" (22.9 × 7.6cm)	300mL	----	953755-0000	**K953755-0000**	190.70
PTFE	9 × 3" (22.9 × 7.6cm)	300mL	----	953780-0000	**K953780-0000**	286.50
316 SS	9 × 3" (22.9 × 7.6cm)	300mL	----	953805-0000	**K953805-0000**	235.00
90mm Filter Holders for Flasks or Manifolds						
Glass	6.31 × 13.75" (16.0 × 35.0cm)	1000mL	----	953755-0090	**K953755-0090**	658.00
316 SS	6.31 × 13.75" (16.0 × 35.0cm)	1000mL	----	953805-0090	**K953805-0090**	740.00
47mm Filter Holders with Flasks						
Glass	17 × 5.37" (43.0 × 11.7cm)	300mL	1000mL	953825-0000	**K953825-0000**	458.00
Glass	20.25 × 6.5" (51.5 × 16.5cm)	500mL	2000mL	953835-0000	**K953835-0000**	588.50
Glass	23.66 × 8 .06" (60.0 × 20.5cm)	1000mL	4000mL	953845-0000	**K953845-0000**	634.50
316 SS	17 × 5.37" (43.0 × 11.7cm)	300mL	1000mL	953855-1047	**K953855-1047**	404.00
90mm Filter Holders with Flasks						
Glass	20.25 × 6.5" (51.5 × 16.5cm)	1000mL	1000mL	953825-0090	**K953825-0090**	1034.00
Glass	23.66 × 8.06" (60.0 × 20.5cm)	1000mL	2000mL	953835-0090	**K953835-0090**	1098.00
Rep. Glass	23.66 × 8.06" (60.0 × 20.5cm)	1000mL	2000mL	953840-2090	**K953840-2090**	1235.00
Rep. Glass	27 × 8.06" (68.5 × 20.5cm)	1000mL	4000mL	953840-4090	**K953840-4090**	1261.00
316 SS	20.25 × 6.25" (51.5 × 16.5cm)	1000mL	1000mL	953855-1090	**K953855-1090**	1265.13
47mm Holders with Bottles						
Glass	14.5 × 4" (36.8 × 10.2cm)	300mL	1000mL	953750-5347	**K953750-5347**	416.00
316 SS	14.5 × 4" (36.8 × 10.2cm)	300mL	1000mL	953800-5347	**K953800-5347**	444.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® PVC Vacuum Manifolds

For testing multiple samples by vacuum filtration

- Accommodate vacuum filter holders and funnels using a No. 8 stopper
- Lightweight design efficiently uses lab space
- Each holder has two-way valve made of Type 316 stainless-steel with Viton™ seals
- Manifold body and funnel holders are made of polyvinylchloride
- 1/4 NPTM connections to vacuum
- Not autoclavable; sanitize using ethanol or formaldehyde
- Maximum operating temperature: 55°C (130°F)

Type	Overall L × W × H	Cat. No.	Each
3 Place	17.75 × 4.50 × 4.50"(45.1 × 11.4 × 11.4cm)	**09-753-39A**	1127.00

Fisherbrand® Stainless-Steel Hydrolab Manifolds

For routine microbiological filtrations

09-753-36A

- Support microanalysis funnels when multiple samples are run from one vacuum line
- Made from polished Type 304 stainless steel
- Anodized aluminum handles on both ends for positioning on benchtop
- Sturdy units have low center of gravity to avoid tipping
- Each branch is operated by three-way valve to permit attachment of vent filter
- Accept vacuum funnel using a No. 8 stopper
- Autoclavable
- Serrated vacuum hose connection accepts 0.37" (9.5mm) tubing from an appropriate vacuum source

INCLUDES:
Manifold with hose connector and pipe plug; manifold handles; three-way valve assemblies with Type 316 stainless-steel bodies, Viton™ rubber O-rings and funnel holders.

Type	Overall L × W × H	Cat. No.	Each
3 Place	17.75 × 6 × 6" (45.1 × 15.2 × 15.2cm)	**09-753-36A**	2650.00

EMD Millipore™ Filter Holder Vacuum Manifolds

Provide vacuum support for simultaneous filtration of either three or six test samples

XX25 047 Series

- Use Millipore glass, plastic or stainless-steel filter holders fitted with standard No. 8 perforated stoppers over the holder outlets
- Manifolds connect to single vacuum source and use separate control valves at each station for independent operation
- Use vent ports on each stainless-steel manifold station to attach Swinnex™ filter holders or Millex™ filter units to maintain sterility on the test filter's downstream side

Stainless-steel Manifolds

- Stainless-steel body, three-way valves, filter holder supports; anodized aluminum handles; stainless-steel hose connector; pipe plug
- Units are autoclavable at 121°C (250°F)

PVC Manifold

- Polyvinylchloride body; stainless-steel two-way valve; polypropylene hose adapters and handles
- Not autoclavable

Description	Cat. No.	Each
Stainless-steel Manifold, six-place	**XX25 047 00**	2516.28
Stainless-steel Manifold, three-place	**XX25 047 35**	1858.24
PVC Manifold, three-place	**XX26 047 35**	909.36

EMD Millipore™ 1225 Sampling Vacuum Manifold

Compact cell harvester for individual sample collection in 15mL tubes

- Filter up to 12 samples, using 25mm discs in numbered filter plate
- Acid and base resistant, including TCA
- Solvent resistant below 80°C (176°F)
- Not recommended for use with strong oxidizing acids
- Major components can be autoclaved at least 20 times; screens and O-rings not autoclavable

XX27 025 50

ORDERING INFORMATION:
Extension barrels are available to handle 50mL sample volumes (see XX27 025 55, sold separately).

INCLUDES:
Sealing stoppers for analyzing fewer than 12 samples

Description	Cat. No.	Each
1225 Sampling Vacuum Manifold	**XX27 025 50**	1245.00

EMD Millipore™ Chemical Duty Vacuum Pressure Pump

With a chemically resistant head and diaphragm for use with corrosive chemicals and solvents

- Cast-aluminum pumphead, housing and regulator
- 813mbar (24"Hg) maximum vacuum
- 2.45 bar (35psig) maximum pressure
- 37L/min. (1.3cfm) maximum flowrate
- Weight: 4.1kg (9.0 lb.) Dimensions: 8L × 7W × 7"H (20.3 × 17.8 × 17.8cm)
- 0.25" stepped hose barb connections

WP6111560

INCLUDES:
70cm of .25" dia. tubing; Millex™ FA_{50} filter for in-line moisture protection

CERTIFICATIONS:
UL listed and CE marked.

Electrical Reqts.	Cat. No.	Each
115V 60Hz	**WP6111560**	885.00
220V 50Hz	**WP6122050**	868.85

EMD Millipore™ Ultraviolet Sterilizer

Rapidly decontaminates 47mm Millipore filter holders between successive sample filtrations

- Prevents organism carryover on funnels
- Economical autoclaving alternative
- Holds up to three 47mm funnels and bases
- Sterilizes by exposing organisms to four germicidal UV lamps
- L × W × H: 13.25 × 17 × 9.5" (337 × 432 × 241mm)
- Shipping weight: 21.6 lb. (9.8kg) 115V 60Hz

XX6370000

INCLUDES:
Sylvania™ No. G8T5, 2537Å germicidal lamps; anodized aluminum reflectors, holder panel; fiberglass case; rubber feet

Description	Mfr. No.	Cat. No.	Each
Ultraviolet Sterilizer	XX6370000	**XX6370000**	2540.00

Thermo Scientific™ Nalgene™ Reusable Filter Funnel with Clamp

For use in microbial and particulate analysis

- Tight fit prevents bypass even after autoclaving
- Reservoir graduated from 100 to 250mL in 25mL increments
- Aluminum clamp allows one-handed operation and easy membrane replacement
- Autoclavable

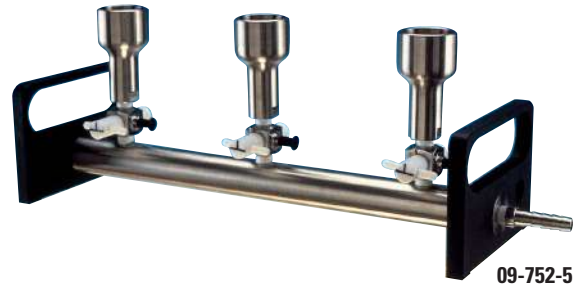
09-747

INCLUDES:
Rugged polysulfone funnel; polypropylene copolymer cover with three ports; three friction-fit TPE caps; support plate for 47mm membrane; silicone gasket; No. 8 stopper (0.5625" hole); aluminum clamp

Description	Mfr. No.	Cat. No.	Each
Vacuum Filter Holder	DS0315-0047	**09-747**	222.50

Thermo Scientific™ Nalgene™ Vacuum Manifold

Widely spaced outlets permit easy funnel manipulation



09-752-5

- Outlets are spaced for easy manipulation of individual filter funnels
- Teflon™ stopcock on each valve shuts off flow when fewer than three outlets are used
- Ideal for use with Nalgene reusable filter funnel with clamp
- Use with Nalgene analytical filter funnels or Nagene test filter funnels

INCLUDES:
Three vacuum outlets, each with two-way valve and vent port; hose barb vacuum connector for 0.38" (9.5mm) I.D. tubing

Description	Mfr. No.	Cat. No.	Each
Vacuum Filter Funnel Manifold	DS0345-0001	**09-752-5**	1557.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Airejector™ Aspirator Pump

Tapered serrated hose connection on side arm and water outlet

- Typical free air capacity of 0.05 cu. ft./min. (1.4L/min.) with water at gauge pressure of 40psig (276kPa)
- Accommodates 1/4 to 5/16" (6.4 to 7.9mm) rubber tubing
- 3/8" NPT connecting thread at top
- Diameter of serrated tips, 0.37" (9.5mm)

Model 11-474-208

- Overall length, 2.875"

Model 11-474-213

- Comes with 0.25" NPT nipple; Length: 1.145"
- Overall length with nipple, 3.75"

APPLICATIONS:

- Urea nitrogen test by aerator method
- Cleaning pipets and sedimentation tubes
- Drawing up spilled liquids

WARRANTY: 12 months

Connections	Cat. No.	Each
3/8 NPT male thread	**11-474-208**	105.60
1/4 NPT male thread	**11-474-213**	102.20

Thermo Scientific™ Nalgene™ Vacuum Pump Aspirator; PP, PET Tubing

Attaches directly to sink faucets for vacuum draw

- Attaches to a standard faucet with 3/8" NPT connecting thread for easy installation
- Maximum free air pumping capacity of 11.5L per minute with a water flow rate of 6.5L per minute.
- Operates efficiently with water pressure as low as 7.5 psig (0.517 bar) for minimum water consumption
- Ultimate achievable vacuum of 28.5" (724mm) Hg
- Discharge end equipped with 4.75" (12cm) length of tubing to direct discharge water toward the drain or to allow attachment to additional discharge tubing
- Integral check valave prevents loss of vacuum when water source is disrupted and prevents backflow

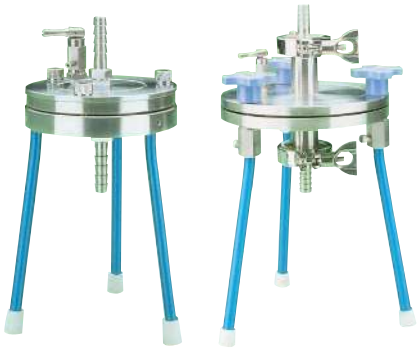
INCLUDES: Integral check valve; 3/8 NPT connecting thread; 4-3/4" (12cm) of tubing

09-960-2

Description	Mfr. No.	Cat. No.	Each	Case of 24
Vacuum Pump	6140-0010	**09-960-2**	24.25	397.00

EMD Millipore™ Stainless-Steel Pressure Filter Holders

Ultraclean or sterilize liquids or gases by pressure filtration



YY30 090 00

- Autoclavable with MF (mixed cellulose esters) filter in place
- Type 316 stainless steel
- Anodized aluminum legs
- PTFE O-rings

90mm Filter

- 1/4 NPTF inlet
- Outlet with connections supplied for 0.87" I.D. (9.5mm) hose
- 1/8 NPTF upstream port for vent/relief valve

142mm Filter

- 11/8 NPTF TC flange with clamps and adapters supplied for 0.56" I.D. (14mm) hose
- 1/8 NPTF upstream port for vent/relief

NOTES:
Other O-ring materials are available, as well as accessory cylinders to convert holders into pressure cells without separate reservoirs. Call your Fisher Scientific™ Customer Service Representative for details.

For Filter Size	Dia. × Height†	Cat. No.	Each
90mm diameter	4.75 × 6.75"† (121 × 171mm)	**YY30 090 00**	1114.00
142mm diameter	7.25 × 10.62"† (184 × 270mm)	**YY30 142 36**	2320.00

† Not including inlet connector

EMD Millipore™ Pressure Filter Holder

Made of stainless-steel

Use to ultraclean or sterilize small volumes via gas pressure filtration through suitable membrane supported on holder base.

- Filter Dia.: 47mm
- Filtration Area: 11.3cm²
- Prefilter Diameter: 42mm (thick depth prefilter) or 47mm (membrane prefilter)
- Maximum Inlet Pressure: 6.9 bar (100psi)
- Inlet Fittings: 3/8" (9.5mm) hose connector
- Outlet Fittings: No. 8 perforated silicone stopper mounts in standard 1L filtering flask

XX4004700

Capacity	Height	Cat. No.	Each
100mL	29.2cm	**XX4004700**	1309.00
340mL	53.3cm	**XX4004740**	1619.00

EMD Millipore™ Zero-Headspace Extractor Hazardous Waste Pressure Filter System

Cannot pressurize unless completely assembled, assuring safe operation

- ZHE system has movable piston to prevent loss of volatiles
- Manual or automatic venting modes
- Type 316 stainless-steel body
- Molded polypropylene handwheels
- Viton™-A O-rings
- Max. pressure: 3.5 bar (50psi)
- Filter size: 90m

YT30 090 HW

Connections

- Top plate — 1/8 NPTF upstream port for 2-way SST valve with 1/8 NPTF for Luer fitting
- Bottom plate — 1/4 NPTF port for 0.25" (6.4mm) elbow or 1/4 × 1/8 NPT T-fitting, 1/4 NPTF port for pressure-relief valve

COMPLIANCE:
Designated by the U.S. EPA as a suitable apparatus for TCLP.

NOTES:
Cannot pressurize unless completely assembled, assuring safe operation.

Description	Mfr. No.	Cat. No.	Each
ZHE Hazardous Waste System, 90mm	YT30090HW	**YT30 090 HW**	2140.00

EMD Millipore™ 142mm Hazardous Waste Pressure Filter System

Separates solid and liquid phases of waste samples

Use for U.S. EPA Toxicity Test and Toxicity Characteristic Leaching Procedure (TCLP).

- Interior coating of PTFE resin prevents heavy metal contamination
- Wide entry port and removable top plate make introducing bulky samples easy
- Disassembles for easy cleaning
- Type 316 stainless steel; aluminum legs; molded polypropylene handwheels; seal of PTFE resin
- Dimensions: 7.25 dia. × 16.62"H (184 × 422mm), plus inlet connector

YT30 142 HW

Connections

- 11/8 NPTF TC flange with clamps and adapters supplied for 0.56" I.D. (14mm) hose
- 1/8 NPTF upstream port for vent relief

Description	Cat. No.	Each
Hazardous Waste System, 142mm	**YT30 142 HW**	2610.00

Membranes

Fisherbrand® General Filtration Membrane Filters

Useful for most filter applications

- Plain, white membrane filters
- Pure, biologically inert mixture of cellulose acetate and cellulose nitrate (MCE)
- Compatible with dilute acids and bases, aliphatic and aromatic hydrocarbons, and nonpolar liquids
- Filters wet readily with water and other fluids
- Contain no fibers or particles to contaminate filtrate
- Autoclavable

Left to Right:
09-719-2F, -2B (top), -2G

APPLICATIONS:
For all analytical, ultracleaning, and sterilizing applications at temperatures below 75°C (167°F) — except those involving esters, ether-alcohols, ketones, nitroparaffins or strong acids and bases.

Pore Size	Diameter	Cat. No.	Pack of
0.2µm	25mm	**09-719-2A**	100/85.10
0.2µm	47mm	**09-719-2B**	100/129.80
0.45µm	25mm	**09-719-2D**	100/70.00
0.45µm	47mm	**09-719-2E**	100/126.10
0.45µm	142mm	**09-719-2F**	50/299.00
0.8µm	25mm	**09-719-2G**	100/80.64
0.8µm	47mm	**09-719-2H**	100/149.30

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Durapore™ PVDF Membrane Filters: Hydrophilic

Recommended when maximum recovery is important

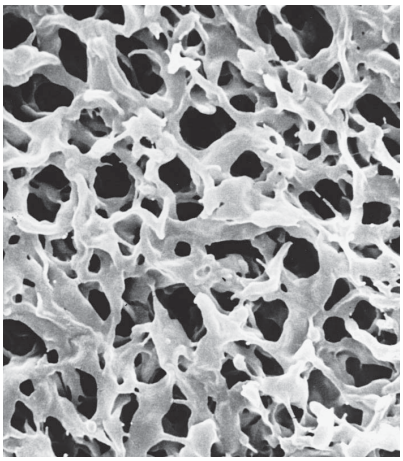
- Mean thickness: 125µm
- Typical refractive index: 1.42
- Autoclavable
- Hydrophilic form is made from modified polyvinylidene fluoride (PVDF); lower protein binding than nitrocellulose, nylon or PTFE

Hydrophobic:

- Clarification of air/gases; sterilizing filtration of gases

Hydrophilic:

- Clarification of air and other gases
- Sterilizing filtration of protein solutions, tissue culture media, additives, antibiotics and alcohols
- Particulate removal; biological assays (receptor binding studies, TCA precipitates)



VVLP 013 00

Typical Characteristics

		Typical Flowrates		
Filter	Mean Pore Size	Liquid[1]	Air[2]	Min. Bubble Point[3]
VVLP	0.10µm	2.5	----	70psi
GVWP	0.22µm	6.9	----	50psi
GVHP	0.22µm	15	3	17psi
HVLP	0.45µm	29	----	22psi
HVHP	0.45µm	35	6	8psi
DVPP	0.65µm	69	----	14psi
SVLP	5.0µm	288	----	3psi

[1]mL/min./cm² of filtration area at 20°C with differential pressure of 10psi (Flowrates for hydrophilic types are based on water flow; for hydrophobic types, on methanol)
[2]L/min./cm² of filtration area at 20°C with differential pressure of 10psi and exit pressure of 14.7psi
[3]Differential pressure required to force air through the pores of a water-wet filter (methanol-wet for hydrophobic Durapore filters)

Diameter	Type	Cat. No.	Pack of
0.10µm Pore Size, White			
13mm	Plain	**VVLP 013 00**	100/94.90
25mm	Plain	**VVLP 025 00**	100/114.50
47mm	Plain	**VVLP 047 00**	100/150.90
90mm	Plain	**VVLP 090 50**	50/207.00
142mm	Plain	**VVLP 142 50**	50/371.00
0.22µm Pore Size, White			
13mm	Plain	**GVWP 013 00**	100/94.90
25mm	Plain	**GVWP 025 00**	100/114.50
47mm	Plain	**GVWP 047 00**	100/150.90
90mm	Plain	**GVWP 090 50**	50/212.00
142mm	Plain	**GVWP 142 50**	50/378.50
0.45µm Pore Size, White			
13mm	Plain	**HVLP 013 00**	100/96.80
25mm	Plain	**HVLP 025 00**	100/116.80
47mm	Plain	**HVLP 047 00**	100/154.00
90mm	Plain	**HVLP 090 50**	50/212.00
142mm	Plain	**HVLP 142 50**	50/378.50
0.65µm Pore Size, White			
13mm	Plain	**DVPP 013 00**	100/96.80
25mm	Plain	**DVPP 025 00**	100/116.30
47mm	Plain	**DVPP 047 00**	100/153.90
90mm	Plain	**DVPP 090 50**	50/211.00
142mm	Plain	**DVPP 142 50**	50/378.50
5.0µm Pore Size, White			
13mm	Plain	**SVLP 013 00**	100/94.90
25mm	Plain	**SVLP 025 00**	100/114.50
47mm	Plain	**SVLP 047 00**	100/164.80
47mm	Grid	**SVWG 047 00**	100/198.00

EMD Millipore™ MF-Millipore™ Mixed Cellulose Ester Membrane Filters

- Composed of mixed cellulose esters (nitrate and acetate)
- Mean thickness varies from 105 to 180µm
- Typical refractive index varies from 1.495 to 1.512, depending on filter type
- Autoclavable at 121°C, except AA black and HA black series
- Biologically inert

Applications

- Clarification of fluids
- Sterilizing filtration of tissue culture media, additives, antibiotics
- Air monitoring
- Particulate analysis
- Particulate removal
- Biological assays (receptor binding studies, TCA precipitates, etc.)

Typical Flowrates

Filter	Mean Pore Size	Water[1]	Air[2]	Minimum Bubble Point[3]
VS	0.025µ	0.15	0.15	300psi
VM	0.05µ	0.74	0.2	250psi
VC	0.10µ	1.5	0.4	200psi
GS	0.22µ	18	2	50psi
PH	0.30µ	32	3	35psi
HA (Black)	0.45µ	60	4	33psi
HA	0.45µ	60	4	30psi
DA	0.65µ	140	9	17psi
AA (Black)	0.80µ	190	16	16psi
AA	0.80µ	190	16	14psi
RA	1.2µ	270	30	11psi
SS	3.0µ	320	30	10psi
SM	5.0µ	580	32	6psi
SC	8.0µ	620	65	6psi

[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi
[2]L/min./cm² of filtration area at 20°C with a differential pressure of 10psi and exit pressure of 14.7psi
[3]Differential pressure required to force air through the pores of a water-wet filter

Diameter	Type	Cat. No.	Pack of
0.025µm Pore Size, White			
13mm	Plain	**VSWP 013 00**	100/198.00
25mm	Plain	**VSWP 025 00**	100/241.00
47mm	Plain	**VSWP 047 00**	100/334.50
90mm	Plain	**VSWP 090 25**	25/216.50
142mm	Plain	**VSWP 142 50**	50/515.83
0.05µm Pore Size, White			
13mm	Plain	**VMWP 013 00**	100/201.50
25mm	Plain	**VMWP 025 00**	100/246.00
47mm	Plain	**VMWP 047 00**	100/333.00
90mm	Plain	**VMWP 090 25**	25/211.24
0.10µm Pore Size, White			
13mm	Plain	**VCWP 013 00**	100/201.50
25mm	Plain	**VCWP 025 00**	100/246.00
47mm	Plain	**VCWP 047 00**	100/333.00
90mm	Plain	**VCWP 090 25**	25/207.10
0.22µm Pore Size, White			
13mm	Plain	**GSWP 013 00**	100/85.20
25mm	Plain	**GSWP 025 00**	100/93.20
37mm	Plain	**GSWP 037 00**	100/158.90
47mm	Plain	**GSWP 047 00**	100/135.50
90mm	Plain	**GSWP 090 00**	100/336.00
142mm	Plain	**GSWP 142 50**	50/322.00

Diameter	Type	Cat. No.	Pack of
0.30µm Pore Size, White			
25mm	Plain	**PHWP 025 00**	100/107.60
47mm	Plain	**PHWP 047 00**	100/175.70
0.45µm Pore Size, White			
13mm	Plain	**HAWP 013 00**	100/83.50
13mm	Grid	**HAWG 013 00**	100/103.80
24mm	Plain	**HAWP 024 00**	100/93.90
25mm	Plain	**HAWP 025 00**	100/95.50
25mm	Grid	**HAWG 025 00**	100/116.90
47mm	Plain	**HAWP 047 00**	100/135.60
47mm	Grid	**HAWG 047 00**	100/165.90
90mm	Plain	**HAWP 090 00**	100/337.50
142mm	Plain	**HAWP 142 50**	50/322.50
0.45µm Pore Size, Black			
13mm	Grid	**HABG 013 00**	100/137.20
25mm	Plain	**HABP 025 00**	100/150.30
25mm	Grid	**HABG 025 00**	100/153.70
47mm	Plain	**HABP 047 00**	100/214.50
47mm	Grid	**HABG 047 00**	100/221.00
47mm	Grid	**HABG 047 CS**[†]	100/79.50
0.65µm Pore Size, White			
13mm	Plain	**DAWP 013 00**	100/93.50
25mm	Plain	**DAWP 025 00**	100/110.90
47mm	Plain	**DAWP 047 00**	100/152.90
90mm	Plain	**DAWP 090 25**	25/93.50
142mm	Plain	**DAWP 142 50**	50/348.00

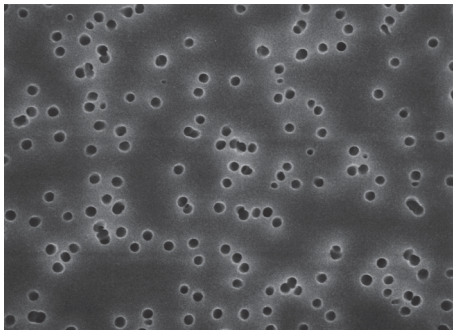
Diameter	Type	Cat. No.	Pack of
0.80µm Pore Size, White			
13mm	Plain	**AAWP 013 00**	100/84.80
13mm	Grid	**AAWG 013 00**	100/103.30
25mm	Plain	**AAWP 025 00**	100/95.00
25mm	Grid	**AAWG 025 00**	100/116.40
37mm	Plain	**AAWP 037 00**	100/133.30
37mm	Grid	**AAWG 037 00**	100/169.10
47mm	Plain	**AAWP 047 00**	100/135.60
47mm	Plain	**AAWP0470M**	50/582.00
47mm	Grid	**AAWG 047 00**	100/169.20
90mm	Plain	**AAWP 090 00**	100/336.00
142mm	Plain	**AAWP 142 50**	50/322.00
0.80µm Pore Size, Black			
13mm	Grid	**AABG 013 00**	100/137.20
25mm	Plain	**AABP 025 00**	100/150.30
25mm	Grid	**AABG 025 00**	100/153.70
47mm	Plain	**AABP 047 00**	100/214.50
47mm	Grid	**AABG 047 00**	100/222.00
1.2µm Pore Size, White			
25mm	Grid	**RAWG 025 00**	100/131.70
47mm	Grid	**RAWG 047 00**	100/179.20
13mm	Plain	**RAWP 013 00**	100/93.50
25mm	Plain	**RAWP 025 00**	100/110.90
47mm	Plain	**RAWP 047 00**	100/149.90
90mm	Plain	**RAWP 090 25**	25/121.80
142mm	Plain	**RAWP 142 50**	50/348.00
3.0µm Pore Size, White			
13mm	Plain	**SSWP 013 00**	100/93.50
25mm	Plain	**SSWP 025 00**	100/112.00
47mm	Plain	**SSWP 047 00**	100/152.90
90mm	Plain	**SSWP 090 25**	25/93.50
142mm	Plain	**SSWP 142 50**	50/348.00
5.0µm Pore Size, White			
13mm	Plain	**SMWP 013 00**	100/93.50
25mm	Plain	**SMWP 025 00**	100/112.00
47mm	Plain	**SMWP 047 00**	100/152.90
90mm	Plain	**SMWP 090 25**	25/122.30
142mm	Plain	**SMWP 142 50**	50/348.00
8.0µm Pore Size, White			
13mm	Plain	**SCWP 013 00**	100/92.50
25mm	Plain	**SCWP 025 00**	100/111.40
47mm	Plain	**SCWP 047 00**	100/149.90
90mm	Plain	**SCWP 090 25**	25/93.50
142mm	Plain	**SCWP 142 50**	50/348.00

[†]Qty./pack is 50 pr. (matched-weight pair).

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Isopore™ Polycarbonate Membrane Filters

Smooth glass-like surface — clearer sample observation



GTBP 013 00

- Hydrophilic and nonhygroscopic
- No clearing is needed for most transmitted-light microscopy
- Water vapor equilibration not necessary
- Low, consistent ash and tare weights
- Nonreactive to most stains
- Mean thickness varies from 9 to 11µm
- Typical refractive index is 1.6
- Autoclavable at 121°C (250°F)

APPLICATIONS:
Air analysis, cell biology, cell culture, bioassays, cytology, environmental analysis, epifluorescence

Typical Characteristics

Filter	Mean Pore Size	Typical Flowrates		Minimum Bubble Point[3]
		Water[1]	Air[2]	
VC	0.1µm	0.5	1.5	101psi
GT	0.2µm	6	1	50psi
HT	0.4µm	18	10	29psi
DT	0.6µm	25	10	8.5psi
AT	0.8µm	40	20	8.5psi
RT	1.2µm	110	20	8.5psi
TT	2.0µm	350	22	4.0psi
TS	3.0µm	1500	50	0.7psi
TM	5.0µm	2000	50	N/A
TC	10.0µm	250	69	N/A

[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi
[2]L/min./cm² of filtration area at 20°C with a differential pressure of 10psi and exit pressure of 14.7psi
[3]Differential pressure required to force air through the pores of a water-wet filter

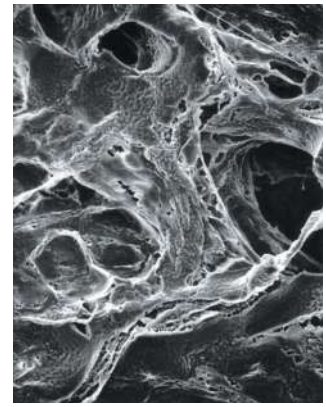
Diameter	Type	Cat. No.	Pack of
0.1µm Pore Size, White			
13mm	Plain	**VCTP 013 00**	100/89.60
25mm	Plain	**VCTP 025 00**	100/97.40
47mm	Plain	**VCTP 047 00**	100/188.40
0.2µm Pore Size, White			
13mm	Plain	**GTTP 013 00**	100/56.30
25mm	Plain	**GTTP 025 00**	100/66.40
37mm	Plain	**GTTP 037 00**	100/88.50
47mm	Plain	**GTTP 047 00**	100/100.60
142mm	Plain	**GTTP 142 50**	50/274.50
0.2µm Pore Size, Black			
13mm	Plain	**GTBP 013 00**	100/78.30
25mm	Plain	**GTBP 025 00**	100/169.10
47mm	Plain	**GTBP 047 00**	100/385.00
0.4µm Pore Size, White			
13mm	Plain	**HTTP 013 00**	100/56.30
25mm	Plain	**HTTP 025 00**	100/66.40
47mm	Plain	**HTTP 047 00**	100/112.40
90mm	Plain	**HTTP 090 30**	30/96.80
142mm	Plain	**HTTP 142 50**	50/274.50
0.4µm Pore Size, Black			
13mm	Plain	**HTBP 013 00**	100/78.30
25mm	Plain	**HTBP 025 00**	100/175.60
47mm	Plain	**HTBP 047 00**	100/419.00
0.6µm Pore Size, White			
13mm	Plain	**DTTP 013 00**	100/64.90
25mm	Plain	**DTTP 025 00**	100/68.30
47mm	Plain	**DTTP 047 00**	100/105.50
0.8µm Pore Size, White			
13mm	Plain	**ATTP 013 00**	100/64.90
25mm	Plain	**ATTP 025 00**	100/68.50
37mm	Plain	**ATTP 037 00**	100/89.60
47mm	Plain	**ATTP 047 00**	100/106.00
142mm	Plain	**ATTP 142 50**	50/291.50
1.2µm Pore Size, White			
13mm	Plain	**RTTP 013 00**	100/64.90
25mm	Plain	**RTTP 025 00**	100/68.50
47mm	Plain	**RTTP 047 00**	100/106.00
142mm	Plain	**RTTP 142 50**	50/291.50
2.0µm Pore Size, White			
25mm	Plain	**TTTP 025 00**	100/68.30
47mm	Plain	**TTTP 047 00**	100/105.50
3.0µm Pore Size, White			
13mm	Plain	**TSTP 013 00**	100/62.47
25mm	Plain	**TSTP 025 00**	100/68.50
47mm	Plain	**TSTP 047 00**	100/106.00
142mm	Plain	**TSTP 142 50**	50/291.50
5.0µm Pore Size, White			
13mm	Plain	**TMTP 013 00**	100/64.90
25mm	Plain	**TMTP 025 00**	100/68.90
47mm	Plain	**TMTP 047 00**	100/106.00
90mm	Plain	**TMTP 090 30**	30/98.50
142mm	Plain	**TMTP 142 50**	50/291.50
10.0µm Pore Size, White			
13mm	Plain	**TCTP 013 00**	100/64.90
25mm	Plain	**TCTP 025 00**	100/68.90
47mm	Plain	**TCTP 047 00**	100/106.00
142mm	Plain	**TCTP 142 50**	50/291.50

EMD Millipore™ Mitex™ PTFE Membrane Filters

Unlaminated for extreme chemical or temperature conditions

- Membranes have no backing
- Mean thickness is 125µm
- Autoclavable at 121°C (250°F)

APPLICATIONS:
Clarification of acids, bases and cryogenic fluids; clarification of propellants; analysis of hydraulic fluids; RNA isolation



LSWP 013 00

Diameter	Type	Cat. No.	Pack of
5.0µm Pore Size, White			
13mm	Plain	**LSWP 013 00**	100/239.00
25mm	Plain	**LSWP 025 00**	100/298.50
25mm	Grid	**LSWG 025 00**	100/346.50
37mm	Plain	**LSWP 037 00**	100/404.50
47mm	Plain	**LSWP 047 00**	100/427.00
47mm	Grid	**LSWG 047 00**	100/479.50
90mm	Plain	**LSWP 090 25**	25/365.50
142mm	Plain	**LSWP 142 50**	50/784.00
10.0µm Pore Size, White			
13mm	Plain	**LCWP 013 00**	100/239.00
25mm	Plain	**LCWP 025 00**	100/298.50
47mm	Plain	**LCWP 047 00**	100/416.50
47mm	Grid	**LCWG 047 00**	100/479.50
90mm	Plain	**LCWP 090 25**	25/365.50
142mm	Plain	**LCWP 142 50**	50/783.50

Typical Characteristics

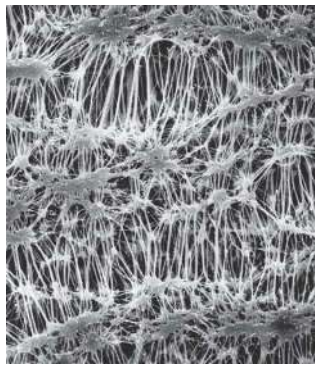
Filter	Mean Pore Size	Typical Flowrates Methanol[1]	Typical Flowrates Air[2]	Minimum Bubble Point[3]
LS	5.0m	51.9	9	0.9psi
LC	10.0m	126	14	0.5psi

[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi
[2]L/min./cm² of filtration area at 20°C with a differential pressure of 10psi and exit pressure of 14.7psi
[3]Differential pressure required to force air through the pores of a water-wet filter

EMD Millipore™ Fluoropore™ PTFE Membrane Filters

Hydrophobic membrane with laminated backing for easier handling

- Made from polytetrafluoroethylene bonded to high-density polyethylene
- Wetting with methanol or another low-surface-tension fluid renders the membrane hydrophilic
- Mean thickness varies from 145 to 200µm, depending upon filter type
- Provides broad chemical compatibility
- Autoclavable at 121°C (250°F)



FGLP 013 00

APPLICATIONS:
Clarification of acids, bases and solvents; clarification of alcohol solutions; UV spectroscopy

Typical Characteristics

Filter	Mean Pore Size	Typical Flowrates Methanol[1]	Typical Flowrates Air[2]	Minimum Bubble Point[3]
FG	0.2µm	15	3	13psi
FH	0.5µm	40	8	7psi
FA	1.0µm	90	16	3psi
FS	3.0µm	286	20	0.7psi
FM	5.0µm	286	20	0.48psi

[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi
[2]L/min./cm² of filtration area at 20°C with a differential pressure of 10psi and exit pressure of 14.7psi
[3]Differential pressure required to force air through the pores of a water-wet filter

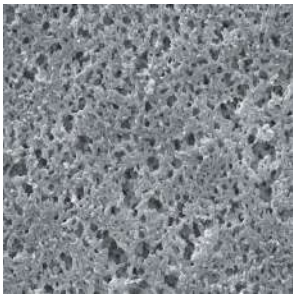
Diameter	Type	Cat. No.	Pack of
0.2µm Pore Size, White			
13mm	Plain	**FGLP 013 00**	100/245.50
25mm	Plain	**FGLP 025 00**	100/309.00
47mm	Plain	**FGLP 047 00**	100/412.00
90mm	Plain	**FGLP 090 50**	50/655.50
142mm	Plain	**FGLP 142 50**	50/808.50
0.5µm Pore Size, White			
13mm	Plain	**FHLP 013 00**	100/270.50
25mm	Plain	**FHLP 025 00**	100/309.00
37mm	Plain	**FHLP 037 00**	100/376.50
47mm	Plain	**FHLP 047 00**	100/411.00
90mm	Plain	**FHLP 090 50**	50/655.50
142mm	Plain	**FHLP 142 50**	50/808.50
0.5µm Pore Size, White, Unlaminated			
47mm	Plain	**FHUP 047 00**	100/571.50
1.0µm Pore Size, White			
13mm	Plain	**FALP 013 00**	100/236.98
25mm	Plain	**FALP 025 00**	100/309.00
47mm	Plain	**FALP 047 00**	100/412.00
142mm	Plain	**FALP 142 50**	50/808.50
3.0µm Pore Size, White			
47mm	Plain	**FSLW 047 00**	100/478.75
90mm	Plain	**FSLW 090 25**	25/347.08
142mm	Plain	**FSLW 142 00**	10/176.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Nylon Hydrophilic Membrane Filters

Filtration of aqueous or organic solutions

- Resist most commonly used HPLC solvents
- Hydrophilic discs made of noncharged, unreinforced Nylon 66 in 0.2 and 0.45µm pore sizes
- Won't contaminate a sample with extractables
- Autoclaved or sterilized by EtO
- Thermal compatibility: ≤135°C (275°F)
- Absorbance: P0.002 absorbance units or 2mV, after 2 minutes of column volume



GNWP 025 00

APPLICATIONS:
Clarifying aqueous or organic solutions prior to HPLC analysis. Can be used with all common HPLC solvents.

Typical Characteristics			
Filter	Mean Pore Size	Typical Flowrate Water[1]	Minimum Bubble Point[2]
GN	0.2µm	200	40psi
HN	0.45µm	250	35.5psi

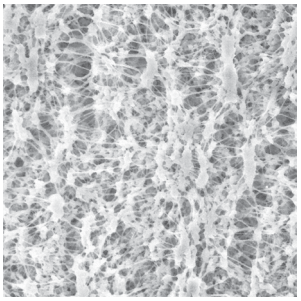
Diameter	Type	Cat. No.	Pack of 100
0.2µm Pore Size			
25mm	Plain	**GNWP 025 00**	99.10
47mm	Plain	**GNWP 047 00**	155.13
0.45µm Pore Size			
25mm	Plain	**HNWP 025 00**	99.60
47mm	Plain	**HNWP 047 00**	147.70

[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi
[2]L/min./cm² of filtration area at 20°C with a differential pressure of 10psi and exit pressure of 14.7psi

EMD Millipore™ LCR Hydrophilized PTFE Membrane Filters

Filtration of aqueous fluids with no wetting

- Made of unlaminated PTFE resin
- White, hydrophilic cut discs for removal of particles larger than 0.5µm
- Used with all common HPLC solvents
- Will not contaminate a sample with extractables
- Wetting time: <5 seconds
- Thickness: 5.5mil (0.14mm) max.



FHLC 013 00

APPLICATIONS:

- Clarification of acids, bases and cryogenic fluids
- Clarification of propellants
- Analysis of hydraulic fluids
- RNA isolation
- Clarification of aqueous or organic solutions prior to chromatographic analysis

Typical Characteristics			
Filter	Mean Pore Size	Initial Flowrate Water[1]	Bubble Point
FHLC	0.5µm	>110 sec./500mL	9–13.2psi

Diameter	Type	Cat. No.	Pack of 100
13mm	Plain	**FHLC 013 00**	250.00
25mm	Plain	**FHLC 025 00**	315.00
47mm	Plain	**FHLC 047 00**	420.50

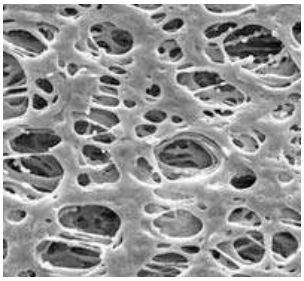
[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi

EMD Millipore Express™ PLUS Membrane Filters

Plain white polyethersulfone membranes provide ultrafast filtration for a variety of applications

- Hydrophilic, high-throughput, low-protein-binding
- Thickness: ≥150µm and ≤200µm
- Sterilization: by autoclave (121°C at 1 bar), EO or gamma
- Bacterial endotoxins: 0.5 EU/mL
- Gravimetric extractables: <1.5%
- Flowrate: 40mL/min. cm2 at 2 bar, 25°C

APPLICATIONS:
Provide ultrafast filtration of tissue culture media, additives, buffers and other aqueous solutions. This membrane is also used in many ready-to-use sterile filtration devices.



Diameter	Type	Cat. No.	Pack of
0.22µm Pore Size			
13mm	Plain	**GPWP 013 00**	100/94.60
25mm	Plain	**GPWP 025 00**	100/98.30
47mm	Plain	**GPWP 047 00**	100/155.00
90mm	Plain	**GPWP 090 50**	50/175.60
142mm	Plain	**GPWP 142 50**	50/399.50
0.45µm Pore Size			
13mm	Plain	**HPWP 013 00**	100/87.40
25mm	Plain	**HPWP 025 00**	100/119.40
47mm	Plain	**HPWP 047 00**	100/154.10
90mm	Plain	**HPWP 090 50**	50/176.50
142mm	Plain	**HPWP 142 50**	50/376.50

EMD Millipore™ Fluids Contamination Analysis Kits Accessory Filters

For Gravimetric measurements

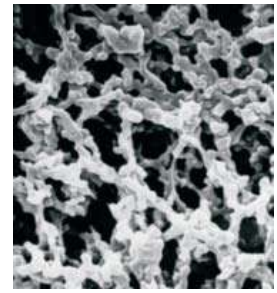
HAWP 047 0M

- Chemistry: mixed cellulose esters
- Wettability: hydrophilic
- Contaminant: trace metals, lead, coal, asbestos, particles, dust
- Non Sterile
- Filter color: white
- Filter surface: plain
- Filter Diameter: 47mm

Pore Size	Mfr. No.	Cat. No.	Price
0.8µm	AAWP0470M	**AAWP 047 0M**	582.00
0.45µm	HAWP 047 0M	**HAWP 047 0M**	591.00

EMD Millipore™ MF-Millipore Mixed Cellulose Ester Membranes: 3.0µm Pore Size

For use in air monitoring, fluid monitoring, particle collection and analysis, and QC of fluid holding tanks



Millipore MF-Millipore Mixed Cellulose Ester Membranes

Diameter	Type	Cat. No.	Pack of
3.0µm Pore Size, White			
13mm	Plain	**SSWP 013 00**	100/93.50
25mm	Plain	**SSWP 025 00**	100/112.00
47mm	Plain	**SSWP 047 00**	100/152.90
90mm	Plain	**SSWP 090 25**	25/93.50
142mm	Plain	**SSWP 142 50**	50/348.00

Whatman™ Anodisc™ Filter Membranes

Compatible with a wide range of solvents and aqueous solutions

- Consist of Anopore™ inorganic membranes, with or without annular polypropylene support ring
- High-purity alumina matrix with a precise nondeformable honeycomb pore structur
- Capillary pore structure, uniform pore size and flat surface capture virtually 100% of particulates larger than rated pore size
- Porosity over 50% by volume and low surface adsorption, resulting in high flowrate
- Contain no monomers, plasticizers, adhesives, surfactants or wetting agents, for minimal sample interference
- Transparent when wet for minimal optical interference

APPLICATIONS:

- In biochemical applications, membranes exhibit extremely low protein binding, immune to UV and gamma radiation, and stable to 400°C (752°F)
- In microscopic analysis, they provide more precise bacterial counts, easier focusing, low background fluorescence
- Suitable for epifluorescent light, electron, direct/incident light, phase contrast and differential interference microscopy

09-926 Series

Diameter	With Annular Ring	Mfr. No.	Cat. No.	Pack of
0.02µm Pore Size				
13mm	No	6809 7003	**09-926-31**	100/560.00
25mm	Yes	6809 6002	**09-926-34**	50/688.00
47mm	Yes	6809 5002	**09-926-37**	50/983.00
0.1µm Pore Size				
13mm	No	6809 7013	**09-926-30**	100/560.50
25mm	Yes	6809 6012	**09-926-33**	50/695.00
47mm	Yes	6809 5012	**09-926-36**	50/1217.00
0.2µm Pore Size				
13mm	No	6809 7023	**09-926-29**	100/560.50
25mm	Yes	6809 6022	**09-926-32**	50/691.50
47mm	Yes	6809 5022	**09-926-35**	50/1113.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Whatman™ Type WTP PTFE Membranes

Chemically stable and inert to handle most aggressive solvents, acids and alkalis

- PTFE stretched film, laminated to a nonwoven polypropylene support web
- Naturally hydrophobic
- 0.5µm size is generally used for sample prefiltering in HPLC analyses for sample filtration where any solid particles can cause permanent damage to column
- 0.2µm size is used in sterile venting of vacuum manifolds and sterile filtrate tanks and containers

09-900 Series

APPLICATIONS:

- Clarification of corrosives, solvents and aggressive fluids
- Collecting moist dusts for subsequent analysis (0.5 and 1.0µm pore sizes)
- Air and gas sterilization (0.2 and 0.5µm pore sizes)

NOTES: Use up to 120°C (248°F); higher temperatures will cause laminate to soften.

Diameter	Mfr. No.	Cat. No.	Pack of 100
0.2µm Pore Size			
25mm	7582-002	**09-900-2**	412.00
47mm	7582-004	**09-900-3**	566.00
0.5µm Pore Size			
47mm	7585-004	**09-900-7**	556.50
1.0µm Pore Size			
47mm	7590-004	**09-900-11**	566.00

Whatman™ Nylon Membranes

Flexible and durable for easier handling

Naturally hydrophilic, eliminating need for wetting agents and prewetting when filtering aqueous solutions.

- Pure nylon membranes
- Tear-resistant
- Filter many organic solvents
- Autoclavable up to 135°C

09-902-3

APPLICATIONS:

- Biotechnology applications include filtration of tissue culture media, microbiological media, buffers and solutions
- Used in chromatography to filter samples, aqueous and organic mobile phases, vacuum degassing

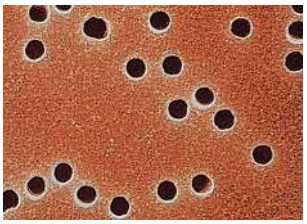
Diameter	Mfr. No.	Cat. No.	Pack of 100
0.2µm Pore Size			
13mm	7402-001	**09-902-3**	104.20
47mm	7402-004	**09-902-5**	164.60
0.45µm Pore Size			
13mm	7404-001	**09-902-8**	104.70
25mm	7404-002	**09-902-9**	119.70
47mm	7404-004	**09-902-10**	186.00
0.8µm Pore Size			
47mm	7408-004	**09-902-13**	182.70

Whatman™ Nuclepore™ Polycarbonate Track-Etched Membranes

Membranes have a smooth flat surface and exhibit very low levels of extractables

Nuclepor track-etched polycarbonate membranes are manufactured from high-quality polycarbonate film.

- Precise pore size for accurate fractionation of particulates
- Smooth flat surface for good visibility of particles
- High particulate visibility
- Low protein binding membranes
- Excellent chemical and thermal resistance
- Low, consistent ash and tare weights
- No shedding of particulates into filtrate; High tensile strength



09-300-58

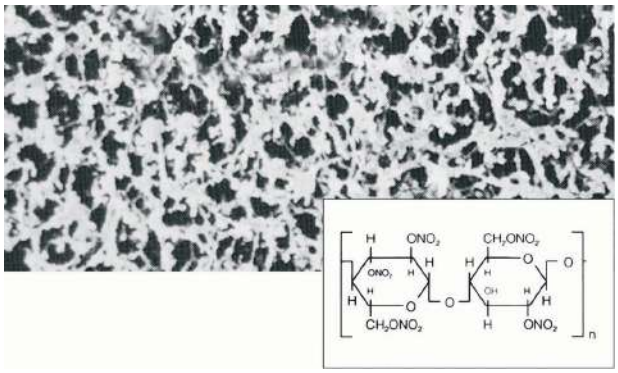
APPLICATIONS:

- General filtration, sample preparation, epifluorescence, clinical and food and beverage testing
- Environmental and air analysis, chemotaxis, cell biology, HPLC, liposome extrusion, environmental and fuel testing, pharmaceuticals, water microbiology, bioassays and parasitology
- Ideal for any study which views the collected sample on the membrane including optical, scanning electron (SEM) and transmission electron (TEM) microscopy, particulate analysis and diagnostic cytology

Diameter	Mfr. No.	Cat. No.	Pack of 100
0.05µm Pore Size			
25mm	110603	**09-300-58**	165.00
47mm	111103	**09-300-67**	288.50
0.1µm Pore Size			
13mm	110405	**09-300-51**	126.90
25mm	110605	**09-300-59**	160.90
47mm	111105	**09-300-68**	281.50
0.2µm Pore Size			
13mm	110406	**09-300-52**	82.10
19mm	800281	**05-71-5115**	98.40
25mm	110606	**09-300-61**	99.30
47mm	111106	**09-300-69**	167.80
0.4µm Pore Size			
13mm	110407	**09-300-53**	82.10
25mm	110607	**09-300-62**	99.30
47mm	111107	**09-300-71**	172.00
0.8µm Pore Size			
13mm	110409	**09-300-54**	86.50
25mm	110609	**09-300-63**	99.30
47mm	111109	**09-300-72**	172.00
1.0µm Pore Size			
13mm	110410	**09-300-55**	83.90
19mm	800319	**05-71-5120**	95.50
25mm	110610	**09-300-64**	99.30
47mm	111110	**09-300-73**	172.00
5.0µm Pore Size			
13mm	110413	**09-300-56**	82.60
25mm	110613	**09-300-65**	99.30
47mm	111113	**09-300-74**	172.00
8.0µm Pore Size			
13mm	110414	**09-300-57**	81.70
25mm	110614	**09-300-66**	99.30
47mm	111114	**09-300-75**	172.00

Sartorius™ CN Membrane Filters

Cellulose nitrate membrane filters have a very uniform pore structure and are available in a wide range of pore size



14-555-372

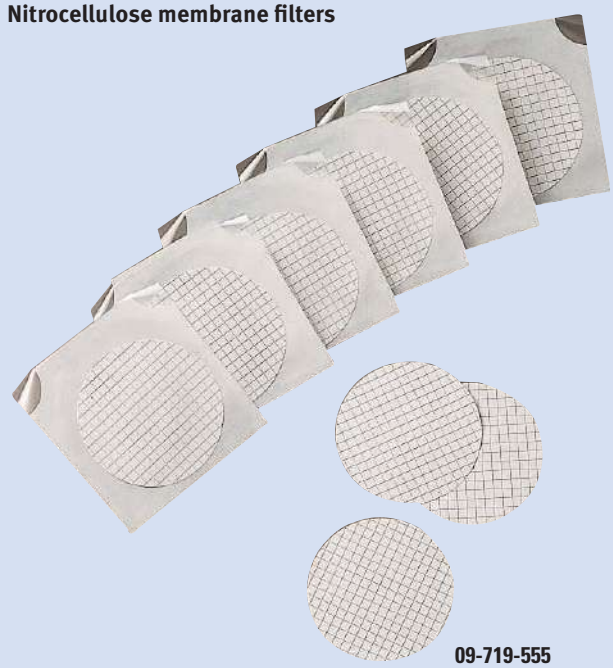
Cellulose nitrate is a standard material for membrane filters and offers a wide range of pore sizes from 8µm to 0.45µm. The larger pore sizes (8µm, 5µm, 3µm) find use for cell retention, the 0.45µm pore size for particle collection. The high non specific adsorption of the cellulose nitrate membrane is very advantageous for diagnostic kits.

Pore Size	Diameter	Quantity	Mfr. No.	Cat. No.	Each
8µm	100mm	25/Pk.	11301-100------G	**14-555-372**	160.65
8µm	100mm	100/Pk.	11301-100------N	**14-555-373**	465.15
8µm	13mm	100/Pk.	11301--13------N	**14-555-374**	78.75
8µm	25mm	100/Pk.	11301--25------N	**14-555-375**	103.95
8µm	37mm	100/Pk.	11301--37------N	**14-555-376**	131.25
8µm	47mm	100/Pk.	11301--47------N	**14-555-377**	170.10
8µm	50mm	100/Pk.	11301--50------N	**14-555-378**	143.85
3µm	100mm	25/Pk.	11302-100------G	**14-555-379**	160.65
3µm	13mm	100/Pk.	11302--13------N	**14-555-380**	78.75
3µm	25mm	100/Pk.	11302--25------N	**14-555-381**	103.95
3µm	47mm	100/Pk.	11302--47------N	**14-555-382**	131.25
3µm	50mm	100/Pk.	11302--50------N	**14-555-383**	143.85
1.2µm	100mm	25/Pk.	11303-100------G	**14-555-384**	143.85
1.2µm	25mm	100/Pk.	11303--25------N	**14-555-385**	92.40
1.2µm	47mm	100/Pk.	11303--47------N	**14-555-386**	165.90
1.2µm	50mm	100/Pk.	11303--50------N	**14-555-387**	143.85
0.8µm	100mm	25/Pk.	11304-100------G	**14-555-388**	145.95
0.8µm	13mm	100/Pk.	11304--13------N	**14-555-389**	78.75
0.8µm	25mm	100/Pk.	11304--25------N	**14-555-390**	103.95
0.8µm	47mm	100/Pk.	11304--47------N	**14-555-392**	145.95
0.8µm	50mm	100/Pk.	11304--50------N	**14-555-393**	145.95
0.65µm	100mm	25/Pk.	11305-100------G	**14-555-394**	172.20
0.65µm	25mm	100/Pk.	11305--25------N	**14-555-395**	103.95
0.65µm	47mm	100/Pk.	11305--47------N	**14-555-396**	145.95
0.65µm	50mm	100/Pk.	11305--50------N	**14-555-397**	119.70
0.45µm	100mm	25/Pk.	11306-100------G	**14-555-398**	172.20
0.45µm	13mm	100/Pk.	11306--13------N	**14-555-399**	92.40
0.45µm	25mm	100/Pk.	11306--25------N	**14-555-400**	103.95
0.45µm	47mm	100/Pk.	11306--47------N	**14-555-401**	119.70
0.45µm	50mm	100/Pk.	11306--50------N	**14-555-402**	119.70
0.45µm	90mm	25/Pk.	11306--90------G	**14-555-403**	119.70
0.45µm	90mm	100/Pk.	11306--90------N	**14-555-404**	465.15
5µm	13mm	100/Pk.	11342--13------N	**14-555-405**	103.95
5µm	25mm	100/Pk.	11342--25------N	**14-555-406**	131.25
5µm	47mm	100/Pk.	11342--47------N	**14-555-407**	172.20
5µm	50mm	100/Pk.	11342--50------N	**14-555-408**	183.75

Microbiological Analysis

Fisherbrand® Water-Testing Membrane Filters

Nitrocellulose membrane filters



09-719-555

- Gridded to aid in counting and colony differentiation
- 0.45µm pore size with 47mm diameter
- Fit standard 2" (5cm) Petri dishes

APPLICATIONS:
Designed for determining bacterial levels, including coliforms, in water, sewage, foods and filterable beverages.

ORDERING INFORMATION:
Individually wrapped packs feature filters individually sealed in peel-back envelopes without absorbent pads. Bulk packages contain 10 sealable envelopes, each containing 10 filters and 10 absorbent pads.

INCLUDES:
Certificate of Analysis supplied with each filter pack.

COMPLIANCE:
Comply with applicable EPA standard methods and ASTM™ specifications for drinking water analysis. Certified to meet stated specifications for physical, chemical, and biological properties including extractables and recovery and retention of indicator organisms.

NOTES:
Autoclave nonsterile packs before opening.

Pore Size	Packaging	Cat. No.	Pack of
0.45µm	Individually Wrapped, Sterile	**09-719-555**	600/307.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

EMD Millipore™ Microbiological Analysis Membrane Filters

Optimized for MF method microbiological analysis of water or other liquids

HAWG 047 A0

- MF-Type (mixed cellulose esters) filter membranes
- 0.45µm (Type HA) designed to give complete retention and maximum recovery of total coliforms and fecal coliform bacteria
- 0.7µm (Type HC) ideal for fecal coliform analyses
- Use 0.22µm membranes where 0.45µm pore size is not sufficient
- For beverage analysis, choose membranes with 0.8µm pore size

COMPLIANCE:
Certified to meet Standard Methods for the Examination of Water and Wastewater requirements.

Packaging Specifications				
Code	**Sterile**	**Absorbent Pad**	**Separator Paper**	**Individually Sealed**
B	No[1]	Yes	No	No[2]
C	Yes	Yes	No	No[2]
I	Yes	No	No	Yes
P	Yes	Yes	No	Yes
S[3]	Yes	No	Yes	Yes

[1]mL/min./cm² of filtration area at 20°C with a differential pressure of 10psi
[2]L/min./cm² of filtration area at 20°C with a differential pressure of 10psi and exit pressure of 14.7psi

Diameter	Color/Surface	Packaging Code	Cat. No.	Pack of
0.22µm pore size				
25mm	White/Plain	I	**GSWP 025 S0**	100/128.81
47mm	White/Plain	C	**GSWP 047 S0**	100/126.70
47mm	White/Gridded	S	**GSWG 047 S6**	600/341.50
0.45µm pore size				
47mm	White/Gridded	S	**HAWG 047 S6**	600/300.50
47mm	Black/Gridded	S	**HABG 047 S6**	600/366.50
47mm	White/Gridded	B	**HAWG 047 A0**	100/102.90
47mm	White/Plain	B	**HAWP 047 A0**	100/121.00
47mm	White/Plain	P	**HAWP 047 S0**	100/127.40
47mm	White/Gridded	C	**HAWG 047 S0**	100/122.80
47mm	Black/Gridded	P	**HABG 047 S0**	100/145.60
0.7µm pore size				
47mm	White/Gridded	S	**HCWG 047 S6**	600/336.50
0.8µm pore size				
47mm	White/Gridded	S	**AAWG 047 S6**	600/359.00

EMD Millipore™ EZ-Pak™ Membranes and Dispenser

Sterile, ready-to-use membranes eliminate contamination risk and save time

Press lever to uncover half of membrane surface for easy retrieval with forceps; other half remains in protective packaging. Unused membranes remain safely packed in pleated band.

09-719-9 Dispenser with EZHAWG474 membranes.

Dispenser

- Stainless-steel casing with epoxy-based paint finish and Ultem™ rollers; cast-aluminum
- Eliminate contamination risk of opening and detaching peel-back envelopes of sterile membranes
- Membranes load easily
- Dispenser dimensions: 9.25L × 6.33W × 9.5"H (23.5 × 16 × 24cm); weight: 5.5 lb. (2.4kg)

EZ-Pak Membranes

- Mixed ester cellulose membranes are 47mm in diameter with 0.45 or 0.8µm pore sizes
- White membranes ideal for particle counting
- Black membranes facilitate colony counting by improving contrast of lactic bacteria colonies in beer and wine analysis and yeast colonies in soft drink testing
- Suitable for testing according to international standards for drinking, bottled and mineral water analysis
- No special precautions needed, even for extended times between uses
- Used packaging film and paper are collected on spool for easy discarding

ORDERING INFORMATION:
Membranes are individually wrapped and come in pleated-band formatted cartridges of 150. Each pack includes four cartridges (600 membranes in all). Membrane catalog number, lot number, sterilization date, pore size and sequential number from 1 to 150 for each membrane cartridge are printed on clear, protective cover.

COMPLIANCE:
Meet guidelines for Standard Methods for the Examination of Water and Wastewater.

Description	Type	Cat. No.	Price
Membrane Dispenser	----	**09-719-9**	1375.21
Membranes, 600/Pk.			
0.45µm	White gridded	**EZHAWG474**	357.00
0.45µm	Black gridded	**MSP000814**	360.50
0.45µm	Green gridded	**EZHAGG474**	417.00
0.22µm	White gridded	**EZGSWG474**	417.00
0.7µm (asymm.)	White gridded	**EZHCWG474**	395.50
0.8µm	White gridded	**EZAAWG474**	411.50

EMD Millipore™ Microfil™ Filtration System

Convenient filtration system uses presterilized funnels and membranes on lever-action filtration support

- Disposable, stackable, recyclable polypropylene 100mL or 250mL funnels
- Eliminates autoclaving and minimizes waste
- Manifold-mounted supports for laboratory use or stand-alone supports for onsite filtration
- "Push-fit" funnels seal tightly to manifold supports without clamps or O-rings

MIAC 01P 01 (left) and MIAC 03P 01

- Leak-free operation and uniform microorganism recoveries
- Faster than all-glass filter apparatus
- Lever breaks vacuum and lifts membrane for removal with forceps

ORDERING INFORMATION:
47mm gridded MCE membrane filters or EZ-Pak™ membrane cartridge

COMPLIANCE: CEN, Standard Methods for the Examination of Water and Wastewater, WHO guidelines

Millipore Microfil Equipment Description	Cat. No.	Each
Vacuum Support (stand-alone for single station)	**MIAC 01P 01**	776.47
Three-Position Vacuum Manifold with Supports	**MIAC 03P 01**	2635.79
Funnel Dispenser for 100mL Funnels	**MIAC FD1 01**	710.50

EMD Millipore™ Microfil™ Funnels

Available in different colors

- 0.22µm pore size for specific test regulations
- 0.45µm for general microbiological analysis
- 0.7µm for chlorinated effluents
- 0.8µm for yeast or molds applications

ORDERING INFORMATION:
47mm gridded MCE membrane filters or EZ-Pak™ membrane cartridge.

Filter Pore Size	Filter Color	Cat. No.	Pack of
100mL funnels with MCE membranes			
0.45µm	White	**MIHAWG100**	150/203.50
100mL funnels with EZ-Pak Membrane Cartridges			
0.45µm	White	**MZHAWG101**	150/261.50
250mL funnels with EZ-Pak membranes			
0.45µm	White	**MZHAWG251**	150/318.00
0.45µm	Black	**MZHABG251**	150/329.00

EMD Millipore™ Microfil™ V Filtration Device

Faster and easier than conventional filter holders used to test drinking water

Uniform microorganism recovery is promoted by unique "push-fit" seal; smooth, hydrophobic funnel surface reduces aqueous sample residues sticking to funnel walls; and support's convex shape eliminates membrane distortion, thus maintaining uniform contact between membrane and medium surface.

MVHA WG1 24

- No need to assemble filter holders, clean funnels or sterilize filter support after each filtration
- Microfil V filtration device snaps off the carrying tray and onto a standard No. 8 stopper or a vacuum syringe with Luer connection
- Funnels attach with "push-fit" seal to prevent sample bypass without clamps or O-rings
- Filter support has a curved edge to easily remove membrane after filtration while vacuum is still applied

ORDERING INFORMATION:
Sold in three trays of eight.

INCLUDES:
Filtration device; 100mL polypropylene funnel; white, gridded sterile 47mm MCE membrane with 0.22 or 0.45µm pore size

COMPLIANCE:
Conforms to international standards for testing drinking water, Standard Methods for the Examination of Water and Wastewater and WHO Guidelines for Drinking Water Quality.

CERTIFICATIONS:
Membrane is certified in accordance with Standard Methods for Coliform Analysis.

Description	Pore Size	Cat. No.	Pack of
MCE, White, Gridded	0.22µm	**MVGS WG1 24**	24/119.90
MCE, White, Gridded	0.45µm	**MVHA WG1 24**	24/111.00
MCE, Black, Gridded	0.45µm	**MVHA BG1 24**	24/119.90

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Microfil™ S Filtration Devices

Fast, dependable alternative to conventional multi-step methods

Devices consist of a funnel, protective lid and filtration support so routine microbiological testing is fast and easy.

MVHA WGS 24

- Ensure consistent recovery of microorganisms
- Smooth, hydrophobic funnel surface repels aqueous sample residues to ensure that microorganisms are collected on the membrane, not on funnel walls
- Convex support shape eliminates pleating and distortion of membrane due to expansion
- Three membrane selections offer versatility for your specific application

Benefits

- Presterilized, individually packaged
- No membrane handling prior to filtering
- No filter holders, funnels and attachments to assemble and sterilize
- No sterilizing the filter support after each filtration
- Protective lid reduces external contamination risk
- Pre-assembled to speed sampling and shorten preparation
- Easy-to-remove funnel and membrane reduce test time

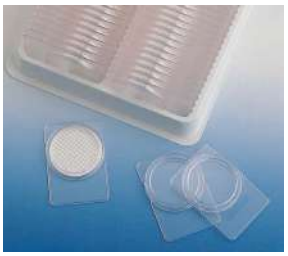
COMPLIANCE:
Comply with USP/EP Guidelines. Certificate of Quality demonstrates that the device has been quality-control tested with Pharmacopoeia organisms and demonstrates acceptable growth.

Filter Material	Pore Size	Cat. No.	Pack of 24
Mixed Cellulose Esters	0.45µm	**MVHA WGS 24**	111.10
Hydrophilic PVDF	0.45µm	**MVHV WPS 24**	168.30
Mixed Cellulose Esters	0.22µm	**MVGS WGS 24**	121.50

EMD Millipore™ PetriSlide™ Containers

Use in place of Petri dishes

Sterilized polystyrene storage and examination containers for culturing microorganisms.



PDMA 047 00

- Hold 47mm filter securely in place
- Transparent cover allows microscopic examination without removal
- Rectangular base has rounded corners for mounting on microscopic stage
- Stored in cartons or standard slide cases
- Use pure cellulose pads for microbiological analysis
- Use without pads for contamination analysis

Description	Cat. No.	Pack of 100
With pads	**PDMA 047 00**	48.85
Without pads	**PD15 047 00**	64.90

Thermo Scientific™ Nalgene™ Analytical Test Filter Funnels

Low-cost, disposable, sterile filter funnels for microbiological analysis testing

High impact polystyrene collars are rugged for reliable performance.

09-740 Series

- Preassembled, sterile, individually bagged to ensure sample integrity
- Adapters accommodate No. 8 stoppers for use with 0.5" hole in vacuum manifolds or filter flasks
- Designed for single use only
- 47mm diameter cellulose nitrate membrane is certified for water quality work
- 250mL sizes are useful when testing beverages that may foam
- Cat. No. 09-740-30D features gray membrane that turns black when wet, making it easier to detect and count growing colonies

APPLICATIONS:
Test water quality, foods, beverages, pharmaceutical quality control and raw material, as well as sterility testing and finished product QC

INCLUDES:
Six funnel adapters with each case

COMPLIANCE:
Meet requirements of APHA Standard Methods and EPA requirements for water quality work.

Pore Size	Membrane Color	Mfr. No.	Cat. No.	Case of 50
100mL Funnel Capacity				
0.2µm	White	145-0020	**09-740-30G**	255.00
0.45µm	White with black grid	145-0045	**09-740-30D**	255.15
0.45µm	Gray with black grid	147-0045	**09-740-29**	273.50
250mL Funnel Capacity				
0.2µm	White	145-2020	**09-740-30J**	281.50
0.45µm	White with black grid	145-2045	**09-740-30K**	281.50
0.45µm	Gray with black grid	147-2045	**12-456-666**	261.59

Thermo Scientific™ Nalgene™ Sterile Analytical Filter Funnel

Safer, easier to use than cumbersome glass and metal funnels

09-740-30B

- Disposable, presterilized funnel
- Removable 47mm diameter membrane for use with filtering flasks and manifolds
- 0.45µm Triton™-free cellulose nitrate membrane with gray grid
- Gamma sterilized, individually sealed in plastic bag

INCLUDES:
Upper chamber with reference mark at 150mL; polystyrene cover; CN membrane; support pad; polystyrene support plate/funnel that fits a stopper or adapter with 9/16" hole; quick-disconnect adapter for 1/4 or 5/16" tubing. Each pack of 12 funnels includes one vacuum gasket that replaces stopper or adapter with 9/16" or larger opening.

COMPLIANCE:
Membrane conforms to APHA Standard Methods, 16th ed., Section 909A, B, C. Meets EPA requirements for water quality work.

Pore Size	Mfr. No.	Cat. No.	Pack of 12	Case of 6 Pk.
0.45µm	140-4045	**09-740-30B**	152.80	621.50

Thermo Scientific™ Nalgene™ Sterile Analytical Filter Units

Disposable, preassembled, presterilized units with removable membranes

- Upper chamber snaps away from receiver for retrieval of membrane with sterile forceps
- Gamma-sterilized, individually wrapped
- Provides excellent recovery and growth of microorganisms
- Receiver is graduated from 20 to 150mL for easy reading of sample volume
- Wide base is stable on the bench
- 0.2µm size is ideal for sterility tests
- 0.45µm size has black grid to facilitate colony counting

09-740 Series

APPLICATIONS:
Culturing; membrane analysis, such as water quality testing; and cold sterilization in field work

INCLUDES:
Polystyrene cover; upper chamber with reference mark at 100mL and receiver; removable, 47mm Triton™-free cellulose nitrate (CN) membranes; cellulosic support pad; cellulosic vent plug side arm; quick-disconnect tubing adapter; and blue support plate

COMPLIANCE:
0.45µm size conforms to Specification 909A, B and C of APHA Standard Methods, 16th ed.; EPA certification sheets included.

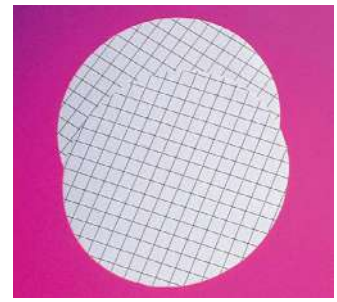
Membrane	Pore Size	Mfr. No.	Cat. No.	Pack of 12	Case of 6 Pk.
CN	0.2µm	130-4020	**09-740-21A**	142.11	565.18
CN	0.45µm	130-4045	**09-740-21B**	142.11	565.18

Whatman™ Mixed Cellulose Ester Membranes

White membranes with black grid, recommended for the majority of routine applications

- Gridded surface (3.1mm intervals) make filters ideal for colony counting after incubation
- Special nontoxic ink used is completely free from bacterial growth inhibitors
- Manufactured under strictly controlled cleanroom conditions
- Pore size: 0.45µm

ORDERING INFORMATION:
Autoclavable pack has 10 envelopes of 10 filters/pads for sterilization in the microbiological laboratory.



09-529-711

Outside Dia.	Pore Size	Description	Mfr. No.	Cat. No.	Each
Sterile					
47mm	0.45µm	Gridded, with absorbent pad	7141-104	**09-529-711**	98.70
47mm	0.45µm	Gridded, without absorbent pad, 100/Pk.	7141-114	**09-529-712**	98.70
47mm	0.45µm	Gridded, without absorbent pad, 200/Pk.	7141-124	**09-529-713**	189.70
47mm	0.45µm	Gridded, without absorbent pad, 1000/Pk	7141-154	**09-300-79**	537.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sartorius™ Biosart™ 100 Monitors

Sterile funnels, ready-to-use

14-555-743

The major area of application for Biosart 100 Monitors is microbiological analysis of relatively large sample volumes that have a low number of microbes, with membrane filtration being an essential step. The three various filter colors — green, white and gray (after wetting black) — allow the best contrast to the colonies. Monitors with regenerate cellulose membrane, are ideal for bioburden-testing in the veterinary sector, where a lot of products are based on solvents.

Pore Size	Color	Membrane Material	Mfr. No.	Cat. No.	Pack of 48
0.45µm	White|Black	Cellulose Nitrate	16401-47-06--ACK	**14-555-743**	236.50
0.45µm	White|Black	Cellulose Nitrate	16401-47-06----K	**14-555-742**	173.10
0.45µm	White|Black	Cellulose Nitrate	16401-47-06-V--K	**14-555-744**	122.20
0.45µm	White|Black	Cellulose Nitrate	16401-47-06-VWMK	**14-555-745**	106.40
0.2µm	White|Black	Cellulose Nitrate	16401-47-07--ACK	**14-555-747**	224.54
0.2µm	White|Black	Cellulose Nitrate	16401-47-07----K	**14-555-746**	194.20
0.45µm	White|Black	Cellulose Nitrate	16401-47-H6----K	**14-555-748**	173.30
0.45µm	White|Black	Cellulose Nitrate	16401-47-H6-V--K	**14-555-749**	116.40
0.45µm	White|Black	Cellulose Nitrate	16401-47-H6-VWMK	**14-555-750**	123.60
0.45µm	Green|Dark Green	Cellulose Nitrate	16402-47-06--ACK	**14-555-752**	224.54
0.45µm	Green|Dark Green	Cellulose Nitrate	16402-47-06----K	**14-555-751**	173.30
0.8µm	White|Black	Cellulose Nitrate	16403-47-04----K	**14-555-753**	173.30
0.8µm	Gray|White	Cellulose Nitrate	16403-47-04-V--K	**14-555-754**	116.40
0.45µm	White|Black	Cellulose Nitrate	16403-47-06--ACK	**14-555-756**	224.54
0.45µm	Gray|White	Cellulose Nitrate	16403-47-06----K	**14-555-755**	173.30
0.45µm	Gray|White	Cellulose Nitrate	16403-47-06-V--K	**14-555-757**	124.00
0.45µm	Gray|White	Cellulose Nitrate	16403-47-H6-VWMK	**14-555-759**	123.60
0.45µm	White	Regenerated Cellulose	16404-47-06----K	**14-555-760**	173.30

Sartorius™ Combisart™ Individual and Multibranch Systems for Colony Counting

Sterile venting of every filter station

14-599-241

The Sartorius Combisart, system enables you to select the optimal hardware and consumables for your needs in microbiological analysis or particle count in quality assurance. Features a modular design and field-proven standard accessories to make your choice easier. At the heart of the system is a stainless steel manifold designed to accommodate all types of filter holders and funnels such as ready-to-use Biosart™ 100 Monitors, 250 Funnels and flammable units such as stainless steel funnels for colony counting.

- Sterile venting of each membrane after filtration
- Sterilization acc. to ISO 8199
- Special polished stainless steel surfaces allow easy cleaning and rinsing
- Filtration of 3 or 6 samples in parallel
- Easy pouring out of non-filterable samples
- Equally easy for right- and left-handed users
- Maximum flexibility due to different set-ups
- Space-saving in the autoclave
- Stainless steel 304 - long lifecycle

Description	Capacity	Mfr. No.	Cat. No.	Each
Combisart 1-branch manifolds, pre-assembled with funnels and lids	500mL	16845-CS	**14-559-241**	1352.39

LabReporter
QUARTERLY MAGAZINE

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Sartorius™ Microsart™ Combi.jet 2-branch Stainless Steel Manifold

For use with Microsart e.jet Transfer Pump

The system is able to create sufficient vacuum for vacuum filtration concomitantly transferring the filtered liquid directly to waste.

- Reduces operating complexity due to its small and compact design
- Simply push-to-connect for assembling and pull-to-disassemble the whole system within seconds
- Stainless steel three-way valves (taps) allow vacuum for each filter holder to be individually controlled and each filter station to be sterilely vented
- Enables you to select the optimal hardware and consumables for your needs in microbiological analysis and quality assurance
- Modular design and field-proven standard accessories make your choice easier

Description	Mfr. No.	Cat. No.	Each
2-Branch	16848-CJ	**14-559-242**	1837.50

14-559-242

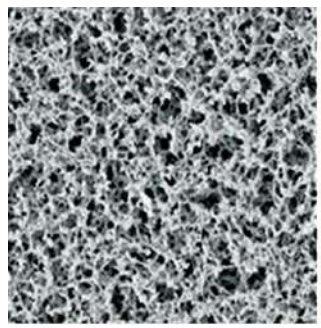
Sartorius™ Gridded Nonsterile Cellulose Nitrate Membrane Filters

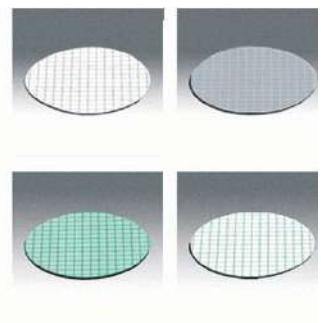
All membranes are made of cellulose nitrate (cellulose ester), a material which assures effective retention with high flow rates and optimum colony growth. The printed grid divides the filtration area into 130 squares, each measuring 3.1 × 3.1mm makes the counting easier, especially for higher bacteria counts and for micro-colonies, but does not influence the growth.

- Outstanding recovery rates for microorganisms
- 0.45µm are acc. to ISO 7704
- Three different colors available

Design

- 25, 47 or 50mm in diameter, white, grey or green and gridded
- Growth Promotion Test acc. to ISO 7704
- No enhancement or inhibition by the grid lines
- No enhancement or inhibition due to chemical extractables





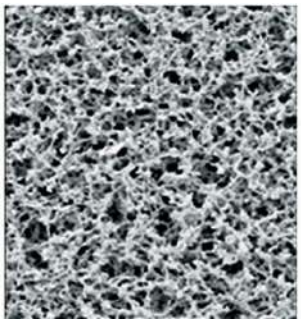
14-555-596

Pore Size	Diameter	Quantity	Color	Mfr. No.	Cat. No.	Price
1.2µm	25mm	100/Pk.	White with black grid	11403--25------N	**14-555-582**	86.20
1.2µm	47mm	100/Pk.	White with black grid	11403--47------N	**14-555-583**	110.60
0.8µm	25mm	100/Pk.	White with black grid	11404--25------N	**14-555-586**	86.10
0.8µm	47mm	100/Pk.	White with black grid	11404--47------N	**14-555-587**	111.30
0.65µm	47mm	100/Pk.	White with black grid	11405--47------N	**14-555-592**	109.08
0.45µm	25mm	100/Pk.	White with black grid	11406--25------N	**14-555-594**	86.10
0.45µm	47mm	100/Pk.	White with black grid	11406--47------N	**14-555-595**	113.00
0.45µm	47mm	1000/Pk.	White with black grid	11406--47------R	**14-555-596**	763.56
0.45µm	50mm	100/Pk.	White with black grid	11406--50------N	**14-555-600**	111.24
0.45µm	50mm	1000/Pk.	White with black grid	11406--50------R	**14-555-602**	767.88
0.2µm	25mm	100/Pk.	White with black grid	11407--25------N	**14-555-606**	86.10
0.2µm	47mm	100/Pk.	White with black grid	11407--47------N	**14-555-607**	112.90
0.8µm	47mm	100/Pk.	Gray with white grid	13004--47------N	**14-555-615**	110.60
0.65µm	47mm	100/Pk.	Gray with white grid	13005--47------N	**14-555-620**	109.08
0.45µm	25mm	100/Pk.	Gray with white grid	13006--25------N	**14-555-622**	88.80
0.45µm	47mm	100/Pk.	Gray with white grid	13006--47------N	**14-555-623**	110.60
0.45µm	47mm	100/Pk.	Green with dark green grid	13806--47------N	**14-555-645**	112.32
0.45µm	47mm	100/Pk.	White with green grid	13906--47------N	**14-555-653**	113.80

Sartorius™ Gridded Sterile Cellulose Nitrate Membrane Filters

Membrane filters for colony counting, particle testing and microscopy

Sterile, individually packaged filters have long become standard for routine microbiological quality control because of the user benefits they offer. They are pre-sterilized and ready-to-use and save preparatory time. As they are individually packaged, they avoid the possibility of contamination of remaining filters in opened packs and conform with GLP, having filter identification and lot number printed on each individual envelope. The increasing demand on these filters required the construction of a new packaging machine with ultra-modern stamping. Each membrane is checked to ensure it is not damaged in any way, is positioned correctly with no slippage under the edge seal, has perfect grid printing and is free of particles. Each envelope is checked for readable lettering. These membrane filters are in accordance with the following norms: ISO 7704, ISO 7899-2, ISO 8199, ISO 9308-1 and EN 12780. In addition to this they have been manufactured for use especially at the same time with Sartorius Nutrient Pad Sets in accordance with many international regulations and recommendations: international pharmacopoeias, DIN and ISO Standards, the American Standards for Water and Foods, mineral water regulations, brewery guidelines, such as MEBAC or EBC, and recommendations of the food industry, such as LMBG, NCA and ICUMSA. All membranes are made of cellulose nitrate (cellulose ester), a material which assures effective retention with high flow rates and optimum colony growth. The printed grid divides the filtration area into 130 squares, each measuring 3.1 × 3.1 mm makes the counting easier, especially for higher bacteria counts and for micro-colonies, but does not influence the growth. The various filter colors allow the best contrast to the colonies or particles.



14-555-584

- Outstanding recovery rates for microorganisms
- 0.45µm are acc. to ISO 7704
- High flow membranes available
- Three different colors available
- Certified quality
- Gamma irradiated, 25k

Pore Size	Diameter	Quantity	Color	Mfr. No.	Cat. No.	Price
1.2µm	47mm	100/Pk.	White with black grid	11403--47----ACN	**14-555-584**	124.50
0.2µm	50mm	100/Pk.	White with black grid	11403--50----ACN	**14-555-585**	126.60
0.8µm	47mm	100/Pk.	White with black grid	11404--47----ACN	**14-555-588**	124.50
0.8µm	47mm	1000/Pk.	White with black grid	11404--47----ACR	**14-555-589**	550.80
0.8µm	50mm	100/Pk.	White with black grid	11404--50----ACN	**14-555-590**	125.28
8µm	80mm	100/Pk.	White with black grid	11404--80----ALN	**14-555-570**	434.50
0.65µm	47mm	100/Pk.	White with black grid	11405--47----ACN	**14-555-593**	124.50
0.45µm	47mm	100/Pk.	White with black grid	11406--47----ACN	**14-555-597**	124.50
0.45µm	47mm	1000/Pk.	White with black grid	11406--47----ACR	**14-555-598**	557.00
0.2µm	47mm	100/Pk.	White with black grid	11407--47----ACN	**14-555-608**	123.12
0.2µm	47mm	1000/Pk.	White with black grid	11407--47----ACR	**14-555-609**	550.80
0.8µm	47mm	100/Pk.	Gray with white grid	13004--47----ACN	**14-555-616**	123.12
0.8µm	80mm	100/Pk.	Gray with white grid	13004--80----ALN	**14-555-617**	125.28
0.65µm	47mm	100/Pk.	Gray with white grid	13005--47----ACN	**14-555-621**	123.12
0.45µm	47mm	100/Pk.	Gray with white grid	13006--47----ACN	**14-555-624**	124.70
0.45µm	47mm	1000/Pk.	Gray with white grid	13006--47----ACR	**14-555-625**	614.50
0.45µm	50mm	100/Pk.	Gray with white grid	13006--50----ACN	**14-555-626**	127.00
0.45µm	47mm	100/Pk.	Green with dark green grid	13806--47----ACN	**14-555-646**	124.80
0.45µm	47mm	1000/Pk.	Green with dark green grid	13806--47----ACR	**14-555-647**	1113.00
0.45µm	50mm	100/Pk.	Green with dark green grid	13806--50----ACN	**14-555-649**	125.28
1.2µm	47mm	100/Pk.	Green with dark green grid	13903--47----ACN	**14-555-651**	123.12
0.65µm	47mm	100/Pk.	Green with dark green grid	13905--47----ACN	**14-555-652**	123.12
0.45µm	47mm	100/Pk.	Green with dark green grid	13906--47----ACN	**14-555-654**	123.12
0.45µm	50mm	100/Pk.	Green with dark green grid	13906--50----ACN	**14-555-655**	125.28
0.45µm	47mm	100/Pk.	White with black grid	139H6--47----ACN	**14-555-657**	130.10
0.45µm	47mm	100/Pk.	White with black grid	114H6--47----ACN	**14-555-611**	119.70
0.45µm	47mm	1000/Pk.	White with black grid	114H6--47----ACR	**14-555-612**	535.50
0.8µm	80mm	100/Pk.	Gray with white grid	13004--80----ALN	**14-555-618**	360.15
0.8µm	80mm	100/Pk.	White with black grid	11404--80----ALN	**14-555-591**	369.60

Sample Prep

EMD Millipore™ Millex Samplicity™ Filtration System Replacement Filters

For use with Samplicity Filtration Systems

- Hydrophilic polytetrafluoroethylene membrane retains more than 95% of particulate impurities
- Compatible with aqueous and organic solvents, minimizes extractables and binding of analytes
- Funnel shape for easy pipette loading
- Outlet tip for smooth transfer to HPLC vials
- For filtering chromatography samples
- Nonsterile

SAMPLG001

Pore Size	Quantity per Pack	Mfr No.	Cat. No.	Each
0.2µm	96	SAMPLG001	**SAMPLG001**	274.00
0.2µm	384	SAMPLG004	**SAMPLG004**	1004.73
0.45µm	96	SAMPLCR01	**SAMPLCR01**	274.00
0.45µm	384	SAMPLCR04	**SAMPLCR04**	1028.00

EMD Millipore™ Samplicity™ Filtration System

With Millex Samplicity membrate filters

Advantages of the Samplicity filtration system include:

- Fast simultaneous vacuum filtration of up to eight samples
- Ergonomic alternative to syringe filters
- Easy sample preparation of even highly viscous or particulate-laden mixtures
- Membrane filters provide long-trusted quality with low extractables and low analyte binding

SAMPLG0BL and SAMPLG0GR

Ideal for:

- Dissolution testing
- High-pressure liquid chromatography (HPLC)
- Ultra-high performance liquid chromatography (UHPLC or UPLC™)
- Liquid chromatography – mass spectrometry (LCMS)

Description	Mfr. No.	Cat. No.	Each
Samplicity System, Green, with 0.2µm Philic PTFE Filters	SAMPLG0GR	**SAMPLG0GR**	901.50
Samplicity System, Green, with 0.45um Philic PTFE Filters	SAMPLCRGR	**SAMPLCRGR**	910.50
Samplicity System, Blue, with 0.2um Philic PTFE Filters	SAMPLG0BL	**SAMPLG0BL**	884.76
Samplicity System, Blue, with 0.45um Philic PTFE Filters	SAMPLCRBL	**SAMPLCRBL**	901.50

Syringe Filters

Fisherbrand® Syringe Filters

Low hold-up volume helps you to recover virtually all of your sample after filtering

Tested for 100% membrane and housing integrity, eliminating concerns about fluid loss.

PVDF Membrane

- Hydrophilic membrane binds far less protein than nitrocellulose, nylon or PTFE
- Ideal for filtration of protein-containing aqueous, mild organic solutions and other pharmaceutical/biological/biotech solutions
- Sterilized by gamma radiation

09-719D

Nylon Membrane

- Excellent chemical resistance and low protein binding
- Ideal for aqueous/biological (filters sterilized by gamma radiation) and aqueous/organic/HPLC (nonsterile filters) applications
- Hydrophilic

PTFE Membrane

- Hydrophobic PTFE membrane has great temperature resistance
- Nonsterile
- Ideal for degassing/clarifying aqueous and solvent samples

Mixed Cellulose Ester (MCE) Membrane

- Hydrophilic membrane has fair chemical and temperature resistance
- EtO sterilized
- Use for clarifying or sterilizing aqueous solutions

ORDERING INFORMATION: Available in 0.22 and 0.45µm pore sizes.

Membrane	Pore Size	Diameter	Cat. No.	Pack of
Sterile				
PVDF	0.22µm	13mm	**09-720-3**	100/335.50
PVDF	0.45µm	13mm	**09-720-4**	100/451.50
Nylon	0.22µm	33mm	**09-719C**	50/262.50
Nylon	0.45µm	33mm	**09-719D**	50/257.50
MCE	0.22µm	33mm	**09-719A**	50/196.50
MCE	0.45µm	33mm	**09-719B**	50/191.80
Nonsterile				
Durapore PVDF	0.22µm	33mm	**09-719-000**	50/170.50
Durapore PVDF	0.22µm	33mm	**09-719-001**	150/419.00
Durapore PVDF	0.45µm	33mm	**09-719-002**	50/177.60
Durapore PVDF	0.45µm	33mm	**09-719-003**	150/400.00
Durapore PVDF	0.45µm	33mm	**09-719-004**	1500/2490.00
Nylon	0.22µm	13mm	**09-720-5**	100/223.50
Nylon	0.22µm	33mm	**09-719-006**	150/416.50
Nylon	0.45µm	13mm	**09-720-6**	100/220.00
Nylon	0.45µm	33mm	**09-719-007**	50/193.00
Nylon	0.45µm	33mm	**09-719-008**	150/416.50
PTFE	0.22µm	13mm	**09-720-7**	100/237.00
PTFE	0.22µm	25mm	**09-719G**	50/239.48
PTFE	0.22µm	25mm	**09-730-19**	150/430.00
PTFE	0.45µm	13mm	**09-720-8**	100/237.00
PTFE	0.45µm	25mm	**09-719H**	50/239.00
PTFE	0.45µm	25mm	**09-730-21**	150/441.00
PTFE	0.45µm	25mm	**09-719-7**	1000/2280.00

EMD Millipore™ Automation Compatible Filters

Trouble-free performance on a variety of automated systems

SLHN DZ5 NZ

Use with Zymark™ BenchMate™, TPW™ II and MultiDose™ workstations, as well as Zymate™ stations that use filtration.

- Pressure-resistant, high-density polyethylene housing prevents instrument stoppage
- Some membranes also include a borosilicate glass fiber prefilter to process solutions containing high particle levels
- Nonsterile
- Hydrophilic Durapore™ PVDF membrane — For lowest protein binding sterilization/clarification of aqueous and mild organic solutions
- Hydrophilic PTFE membrane — Low protein binding, LCR membrane for processing and clarifying aqueous and organic solutions
- Nylon membrane — Broad chemical compatibility for processing and clarifying aqueous and organic solutions
- Glass Fiber B Prefilter: For processing and clarifying aqueous and organic solutions containing high particle levels

ORDERING INFORMATION:
Filter units come in packs of 200 (8 tubes containing 25 filter units that load directly onto the system) or in bulk packs of 1000 (without tubes).

Typical Characteristics	
Diameter	25mm
Volume	P100mL
Effective Filtration Area	3.9cm^2
Filter Hold-up Volume	P100µL (for units with membrane only)
(after Air Purge)	P200µL (for units with membrane and prefilter)
Pressure Limit	100psi
Temperature Limit	45°C (113°F)

Membrane	Pore Size	Cat. No.	Pack of
Hydrophilic PVDF	0.45µm	**SLHV DZ5 NZ**	200/570.50
	0.45µm	**SLHV DZ5 NK**	1000/2100.00
Hydrophilic PVDF with 1.0µm GF B Prefilter	0.45µm	**SLHV BZ5 NZ**	200/637.79
	0.45µm	**SLHV BZ5 NK**	1000/2440.00
Hydrophilic PTFE	0.45µm	**SLCR DZ5 NZ**	200/578.50
	0.45µm	**SLCR DZ5 NK**	1000/2100.00
Hydrophilic PTFE with 1.0µm GF B Prefilter	0.45µm	**SLCR BZ5 NZ**	200/661.00
	0.45µm	**SLCR BZ5 NK**	1000/2490.00
Nylon	0.45µm	**SLHN DZ5 NZ**	200/568.00
	0.45µm	**SLHN DZ5 NK**	1000/2090.00
Nylon with 1.0µm GF B Prefilter	0.45µm	**SLHN BZ5 NZ**	200/661.00
Glass Fiber B Prefilter	1.0µm	**SLPB DZ5 NZ**	200/585.00
	1.0µm	**SLPB DZ5 NK**	1000/2100.00

EMD Millipore™ HPF Millex™ Nonsterile Syringe Filters

Up to 50% greater throughput and easier filtration than traditional syringe filters

- Low-extractable polyethylene housing
- Choice of Nylon and Durapore (PVDF) membranes for optimal filtration
- Includes two different media: a graduated glass fiber prefilter (10.0 to 0.7µm) to remove larger particles and 0.20 or 0.45µm membrane filter for fine filtration
- Female Luer-Lok™ inlet and Male Luer Slip outlet
- Compatible with Zymark™ BenchMate™, Prelude™, MultiDose™ Plus and TPW™II workstations
- Available in boxes for individual sample filtration and tubes for automation compatible packs
- Nonsterile

SLHVM25NS

HPF Millex-HN

- Nylon membrane and graduated prefilter media
- Broad chemical compatibility
- Applications: aqueous or mild organic solutions with high particulate levels
- Initial water flow rate at 30 psi: 140mL/min.

HPF Millex-HV

- Durapore (PVDF) membrane and graduated prefilter
- Lowest protein binding membrane available
- Applications: proteinaceous solutions with high particulate level
- Initial water flow rate at 30 psi: 245mL/min.

NOTES:
Filters SLHVM25NZ and SLHNMZ5NZ are Automation Certified™ by Zymark for use with their workstations.

Specifications	
Filtration Area	3.9cm^2
Process Volume	100mL
Holdup Volume	250µL
Maximum Inlet Pressure	7 bar (100psi)
Maximum Operating Temperature	45°C

Pore Size	Mfr. No.	Cat. No.	Packaging	Price
HPF Millex-HV - Durapore (PVDF)				
0.45µm	SLHVM25NS	**SLHVM25NS**	50/Pk	179.20
0.45µm	SLHVMZ5NZ	**SLHVMZ5NZ**	200 (8 x 25)/Pk	655.00
0.45µm	SLHVM25NK	**SLHVM25NK**	1000/Pk	2090.00
HPF Millex-HN - Nylon				
0.45µm	SLHNM25NS	**SLHNM25NS**	50/Pk	172.30
0.45µm	SLHNM25NK	**SLHNM25NK**	1000/Pk	2080.00

EMD Millipore™ Millex™ Nonsterile Syringe Prefilters

Use to prefilter contaminated solutions

With Type AP 20 glass fiber (2.0µm nominal pore size) in polyvinyl chloride (PVC) or polypropylene (PP) housings.

- SLAP 025 50 has female Luer-Lok™ inlet and male slip Luer outlet SLAP 050 10 has stepped hose barb/female slip Luer interior inlet and outlet

Membrane/Housing	Pore Size	Diameter	Cat. No.	Pack of
AP 20 Glass Fiber/PVC	2.0µm	25mm	**SLAP 025 50**	50/113.60
AP 20 Glass Fiber/PP	2.0µm	50mm	**SLAP 050 10**	10/64.90

SLAP 025 50, -10

EMD Millipore™ Millex™ Sterile Syringe Filters

Ready-to-use syringe-driven units, designed for sterilizing and clarifying sterile solutions

- 100% integrity tested, individually packaged, and sterilized
- Female Luer-Lok™ inlet and male Luer slip outlet
- Manufactured in a controlled environment using an automated process
- Human hands never touch the filter during assembly
- Color-coded band clearly indicates which membrane is inside
- 0.2µm filters are sterilizing grade
- Larger pore sizes are for clarification and prefiltration
- Include a Certificate of Quality

SL Series

Millipore Express™ (PES) membrane

- Provides a unique combination of speed and six times less protein binding than competitive polyethersulfone membranes
- Recommended for sterile filtering protein solutions, tissue culture media and additives
- Gamma irradiation sterilized

MF-Millipore™ (MCE) membrane

- Mixed cellulose ester provides reliable, general purpose filtration
- Use for sterilization/clarification of water, buffers and salt solutions
- EtO sterilized

Durapore™ (PVDF) membrane

- Lowest protein binding sterilization/clarification of biological solutions
- Made of polyvinylidene fluoride
- Gamma irradiation sterilized

COMPLIANCE:
Meet USP Class VI Biological tests for plastics. All 33mm filters are CE-marked and suitable for both medical and laboratory applications outside the U.S.

Housing	Pore Size	Dia.	Cat. No.	Pack of
Millipore Express (PES) Membrane, Green				
Modified Acrylic	0.22µm	33mm	**SLGP033RS**	50/157.00
Modified Acrylic	0.22µm	33mm	**SLGP033RB**	250/663.50
Modified Acrylic	0.22µm†	33mm	**SLGPM33RS**	50/161.80
PES	0.22µm	33mm	**SLGP033RK**	1000/1688.00
MF-Millipore (MCE) Membrane, Blue				
Modified Acrylic	0.22µm	33mm	**SLGS033SS**	50/159.00
Modified Acrylic	0.22µm	33mm	**SLGS033SB**	250/583.50
PVC	0.22µm	25mm	**SLGL0250S‡**	50/183.20
Modified Acrylic	0.22µm†	33mm	**SLGSM33SS**	50/153.70
Modified Acrylic	0.45µm	33mm	**SLHA033SS**	50/160.60
Modified Acrylic	0.45µm	33mm	**SLHA033SB**	250/586.00
Modified Acrylic	0.45µm†	33mm	**SLHAM33SS**	50/153.00
Modified Acrylic	0.8µm	33mm	**SLAA033SS**	50/158.00
Modified Acrylic	0.8µm	33mm	**SLAA033SB**	250/575.50
Modified Acrylic	0.8µm†	33mm	**SLAAM33SS**	50/151.60
Durapore (PVDF) Membrane, Yellow				
PE	0.22µm	4mm	**SLGV004SL**	100/251.50
PE	0.22µm	13mm	**SLGV013SL**	100/284.00
PE	0.45µm	4mm	**SLHV004SL**	100/251.50
PE	0.45µm	13mm	**SLHV013SL**	100/308.50
PVC	5.0µm	25mm	**SLSV025LS**	50/165.30
Modified Acrylic	0.1µm	33mm	**SLVV033RS**	50/161.10
Modified Acrylic	0.1µm†	33mm	**SLVVM33RS**	50/158.50
Modified Acrylic	0.22µm	33mm	**SLGV033RS**	50/161.10
Modified Acrylic	0.22µm	33mm	**SLGV033RB**	250/663.50
Modified Acrylic	0.22µm	33mm	**SLGV033RK**	1000/1688.00
Modified Acrylic	0.22µm†	33mm	**SLGVM33RS**	50/153.90
Modified Acrylic	0.45µm	33mm	**SLHV033RS**	50/161.40
Modified Acrylic	0.45µm	33mm	**SLHV033RB**	250/688.00
Modified Acrylic	0.45µm	33mm	**SLHV033RK**	1000/1680.00
Modified Acrylic	0.45µm†	33mm	**SLHVM33RS**	50/153.90
Millipore (PES) Membrane, Clear				
Eastar™	0.22µm	25mm	**SLMPL25SS**	50/199.40

† Medical filter unit, should only be used in the U.S. for direct patient care and hospital pharmacy applications
‡ With male Luer-Lok outlet

Typical Characteristics				
Diameter	4mm	13mm	33mm	50mm
Process Volume	P1mL	P10mL	P200mL	P4000mL
Filtration Area	0.1cm²	0.65cm²	4.5cm²	19.6cm²
Filter Hold-up Volume (after Air Purge)	P10µL	P25µL	P100µL	P1000µL
Pressure Limit	200psi	100psi	145psi	50psi
Temperature Limit	45°C (113°F)	45°C (113°F)	45°C (113°F)	45°C (113°F)

EMD Millipore™ Millex™ Nonsterile Syringe Filters with PVC Housing

For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines

- With female Luer-Lok™ inlet and male Luer slip outlet
- Available in a variety of membrane types

MCE Membrane

- Mixed cellulose ester membrane for sterilization/ clarification of water, buffers and salt solutions

PVDF Membrane

- Lowest protein binding
- Use for aqueous and mild organic solutions

SLHA 025 NB

Typical Characteristics	
Diameter	25mm
Volume	P100mL
Effective Filtration Area	3.9cm²
Filter Hold-up Volume (after air purge)	P100µL
Pressure Limit	100psi
Temperature Limit	45°C (113°F)

Membrane	Pore Size	Diameter	Cat. No.	Pack of
PVDF	5.0µm	25mm	**SLSV 025 NB**	250/690.50
MCE	0.22µm	25mm	**SLGS 025 NB**	250/644.50
	0.45µm	25mm	**SLHA 025 NB**	250/647.50
	0.45µm	25mm	**SLHA 025 10**	100/2090.00
	0.8µm	25mm	**SLAA 025 NB**	250/637.00
	0.8µm	25mm	**SLAA 025 NK**	1000/1476.00

EMD Millipore™ Millex™ Nonsterile Syringe Filters with PE Housing — PVDF Membrane

For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines

- With female Luer-Lok™ inlet and male Luer slip outlet
- Lowest protein binding
- Use for aqueous and mild organic solutions

Typical Characteristics			
Diameter	4mm	25mm	33mm
Volume	P1mL	P100mL	P100mL
Effective Filtration Area	0.1cm²	3.9cm²	4.5cm²
Filter Hold-up Volume (after air purge)	P10µL	P100µL	P80µL
Pressure Limit	200psi	100psi	125psi
Temperature Limit	45°C (113°F)	45°C (113°F)	45°C (113°F)

Pore Size	Diameter	Cat. No.	Pack of
PVDF Membranes			
0.22µm	4mm	**SLGV R04 NK**	1000/1638.00
0.22µm	4mm	**SLGV R04 NL**	100/177.10
0.22µm	33mm	**SLGV 033 NS**	50/183.50
0.22µm	33mm	**SLGV 033 NB**	250/649.50
0.22µm	33mm	**SLGV 033 NK**	1000/1635.00
0.45µm	4mm	**SLHV R04 NL**	100/177.10
0.45µm	4mm	**SLHV R04 NK**	1000/1638.00
0.45µm	25mm	**SLHV 025 NK**	1000/1509.49
0.45µm	25mm	**SLHV 025 NS**	50/167.50
0.45µm	33mm	**SLHV 033 NS**	50/189.00
0.45µm	33mm	**SLHV 033 NB**	250/669.00
0.45µm	33mm	**SLHV 033 NK**	1000/1683.00

EMD Millipore™ Millex™ Nonsterile Syringe Filters with PE Housing — Hydrophobic PTFE

For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines

- Compatible with more aggressive organic solutions and high temperature conditions

Pore Size	Diameter	Cat. No.	Pack of
Hydrophobic PTFE Membranes			
0.22µm	4mm	**SLFG R04 NL**	100/180.30
0.22µm	25mm	**SLFG 025 NS**	50/222.00
0.22µm	25mm	**SLFG 025 NB**	250/758.50
0.22µm	25mm	**SLFG 025 NK**	1000/1791.00
0.45µm	4mm	**SLFH R04 NL**	100/180.30
0.45µm	25mm	**SLFH 025 NB**	250/758.50
0.45µm	25mm	**SLFH 025 NK**	1000/1811.00
0.45µm	25mm	**SLFH 025 NS**	50/206.00

EMD Millipore™ Millex™ Nonsterile Syringe Filters with PE Housing — Hydrophilic PTFE

For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines

- Broad chemical compatibility
- Choose for filtering aqueous and organic solutions
- Low protein binding

Pore Size	Filter Diameter	Mfr. No.	Cat. No.	Pack of
0.45µm	25mm	SLCR025NB	**SLCR 025 NB**	250/782.00
0.45µm	25mm	SLCR025NK	**SLCR 025 NK**	1000/1886.00
0.45µm	25mm	SLCR025NS	**SLCR 025 NS**	50/226.00
0.20µm	13mm	SLLGH13NK	**SLLG H13 NK**	1000/1095.00
0.22µm	4mm	SLLGR04NL	**SLLG R04 NL**	100/177.10
0.45µm	4mm	SLLHR04NK	**SLLH R04 NK**	1000/1680.00
0.45µm	4mm	SLLHR04NL	**SLLH R04 NL**	100/174.90

EMD Millipore™ Millex™ Nonsterile Syringe Filters with PE Housing — Nylon

For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines

- Broad chemical compatibility
- Choose for filtering aqueous and organic solutions
- With tube outlet, for filtration directly into small receiving vessels

Pore Size	Diameter	Cat. No.	Pack of
Nylon Membranes			
0.22µm	33mm	**SLGN 033 NS**	50/197.80
0.22µm	33mm	**SLGN 033 NB**	250/729.50
0.22µm	33mm	**SLGN 033 NK**	1000/1773.00
0.45µm	33mm	**SLHN 033 NS**	50/197.70
0.45µm	33mm	**SLHN 033 NB**	250/733.00
0.45µm	33mm	**SLHN 033 NK**	1000/1773.00

EMD Millipore™ Millex™ Nonsterile Syringe Filters with PE Housing — PES

Ideal for preparing 10 to 100mL samples prior to chromatography or other instrumental analyses

SLGP 033 NB

Pore Size	Diameter	Quantity	Cat. No.	Pack of
PES Membranes				
0.22µm	33mm	50	**SLGP 033 NS**	50/201.50
0.22µm	33mm	250	**SLGP 033 NB**	250/709.50
0.22µm	33mm	1000	**SLGP 033 NK**	1000/1854.00
0.45µm	33mm	50	**SLHP 033 NS**	50/201.50
0.45µm	33mm	250	**SLHP 033 NB**	250/709.50
0.45µm	33mm	1000	**SLHP 033 NK**	1000/1793.00

EMD Millipore™ 13mm Nonsterile Millex™ Syringe Filters

Variety of membranes and polypropylene housings ensure chemical compatibility with a range of samples and solvents

- Overmolded polypropylene housing design provides a more robust filter, with a maximum housing pressure of 150psig (10 bar) enabling solutions to be filtered faster
- Optimized housing design maintains 50% less hold volume than traditional 13mm filters to ensure maximum sample recovery
- Fully automated manufacturing process minimizes the risk of contamination and meets pharmaceutical standards
- Color-coded band on housing clearly indicates membrane type
- Hydrophobic PTFE membranes — have excellent solvent resistance and are ideal for HPLC sample preparation
- Durapore™ (PVDF) membranes: combine fast flow with low protein binding Nylon membranes provide broad chemical compatibility for use with aqueous and organic solutions Millipore Express™ Plus (PES) membranes offer the fastest flowrates and higher throughput Hydrophilic LCR (PTFE) membranes and are ideal for preparation of aqueous and mild organic solutions

Millex 13mm Syringe Filters

ORDERING INFORMATION:

Inlet/outlet connections: female Luer-Lok™/male Luer slip.

Pore Size	Height	Color Code	Filter Unit	Cat. No.	Pack of
Hydrophobic PTFE Membrane					
0.22µm	21mm	Red	FG	**SLFGX13NL**	100/247.00
0.22µm	21mm	Red	FG	**SLFGX13NK**	1000/1761.00
0.22µm	48mm	Red	FG	**SLFGX13TL**	100/267.00
0.45µm	21mm	Red	FH	**SLFHX13NL**	100/254.50
0.45µm	21mm	Red	FH	**SLFHX13NK**	1000/1683.00
0.45µm	48mm	Red	FH	**SLFHX13TL**	100/267.00
Durapore (PVDF) Membrane					
0.22µm	21mm	Yellow	GV	**SLGVX13NL**	100/259.00
0.22µm	21mm	Yellow	GV	**SLGVX13NK**	1000/1575.00
0.22µm	48mm	Yellow	GV	**SLGVX13TL**	100/265.50
0.45µm	21mm	Yellow	HV	**SLHVX13NL**	100/259.00
0.45µm	21mm	Yellow	HV	**SLHVX13NK**	1000/1635.00
0.45µm	48mm	Yellow	HV	**SLHVX13TL**	100/265.50
Nylon Membrane					
0.22µm	21mm	Purple	GN	**SLGNX13NK**	1000/1658.00
0.22µm	21mm	Purple	GN	**SLGNX13NL**	100/238.50
0.22µm	48mm	Purple	GN	**SLGNX13TL**	100/243.00
0.45µm	21mm	Purple	HN	**SLHNX13NK**	1000/1547.00
0.45µm	21mm	Purple	HN	**SLHNX13NL**	100/244.00
0.45µm	48mm	Purple	HN	**SLHNX13TL**	100/245.50
PES Membrane					
0.22µm	21mm	Green	GP	**SLGPX13NK**	1000/1533.00
0.22µm	21mm	Green	GP	**SLGPX13NL**	100/235.50
0.45µm	21mm	Green	HP	**SLHPX13NK**	1000/1530.00
0.45µm	21mm	Green	HP	**SLHPX13NL**	100/238.50
Hydrophilic LCR (PTFE) Membrane					
0.45µm	21mm	Natural	LCR	**SLCR013NL**	100/270.00
0.45µm	21mm	Natural	LCR	**SLCR013NK**	1000/1770.00
0.45µm	48mm	Natural	LCR	**SLCRT13NL**	100/287.50

EMD Millipore™ IC Millex™ Nonsterile LH Filter Units

Low-extractable filter specifically designed for ion chromatography

SLLGC13NL

Low binding membrane, low IC extractables (chloride and nitrate <0.20µg/mL, sulfate <0.50µg/mL). Clarifies both aqueous and mild organic solutions.

- Remove particulates larger than 0.2µm from aqueous and mild organic solvents for cleaner IC spectra
- High-density polyethylene housing and low binding hydrophilic polytetrafluoroethylene (PTFE) membrane are both low in extractables
- Certified for reliable performance
- Lot release criteria include: bubble point, flowrate, housing pressure, downstream particles and IC levels
- Inlet connection: female Luer-Lok™
- Outlet: male Luer slip

ORDERING INFORMATION:
Each unit individually packaged to minimize risk of extraneous ionic contamination.

INCLUDES:
Certificate of quality with complete specifications

Typical Characteristics		
Diameter	13mm	25mm
Volume	<10µL	10–100mL
Filtration Area	0.65cm²	3.9cm²
Flowrate at 25°C	3mL/min. at 0.7 bar (10psi)	55mL/min. at 0.7 bar (10psi)
Hold-up Volume (after air purge)	10mL	≤100µL
Pressure Limit	100psi	100psi
Temperature Limit	45°C	45°C

Diameter	Pore Size	Flowrate	Cat. No.	Pack of
13mm	0.45µm	3mL/min. at 0.7 bar (10psi)	**SLLHC13NL**	100/235.50
25mm	0.45µm	55mL/min. at 0.7 bar (10psi)	**SLLHC25NS**	50/195.10

LG Filter Units

For clarification of both aqueous and mild organic solutions.

Typical Characteristics		
Diameter	13mm	25mm
Volume	1 to10mL	10 to100mL
Filtration Area	0.65cm²	3.9cm²
Flowrate	30mL/min.	125mL/min.
Hold-up Volume (after air purge)	≤25µL	≤100µL
Pressure Limit (at 25°C)	100psi	100psi
Temperature Limit	45°C	45°C

Membrane/Housing	Pore Size	Diameter	Cat. No.	Pack of
PTFE/HDPE	0.20µm	13mm	**SLLGC13NL**	100/240.00
PTFE/HDPE	0.2µm	25mm	**SLLGC25NS**	50/200.50

Thermo Scientific™ Nalgene™ Syringe Prefilters

Clarify small volumes of highly viscous solutions, remove large particulates from suspensions

Use with standard and Luer-Lok™ syringes; also accepts hypodermic needles. For serial filtration, Luer-Lok outlet provides positive-locking connection to downstream syringe filter.

- Disposable 25mm prefilter
- Prevent clogging of final filter
- Increase sample recovery
- One-piece modified acrylic housing provides leak-resistant seal, eliminating bypass and minimizing fluid loss
- Glass fiber medium
- Contain no adhesives that can affect results

Description	Sterile	Mfr. No.	Cat. No.	Case of 50
Syringe Prefilter	No	189-2000	**09-740-48C**	172.82
Syringe Prefilter Plus	Yes	192-2520	**09-740-48D**	243.21

Thermo Scientific™ Nalgene™ Syringe Prefilter Plus

Filter and prefilter in one disposable unit

09-740-48D

Provides two-stage filtration for sterilization of highly viscous solutions or solutions with high particulate loads. Prefilter increases sample yield by preventing larger particles from clogging downstream membranes.

- Filter and prefilter in one disposable unit
- 25mm filter with cellulose acetate membrane and integral glass fiber prefilter
- Pore size: 0.2µm
- Certified noncytotoxic and nonpyrogenic

CERTIFICATIONS:
Certified noncytotoxic and nonpyrogenic.

Pore Size	Sterile	Mfr. No.	Cat. No.	Case of 50
0.2µm	Yes	192-2520	**09-740-48D**	243.21

Thermo Scientific™ Nalgene™ Syringe Filters — 4mm Diameter

Autoclavable and accommodate sample volume sizes of 0.5 to 1.0mL

4mm Syringe Filters

Cellulose Acetate (CA)

- Low protein binding
- Ideal for sterilization and clarification of biological/immunological samples, cell culture media components, biological fluids, most other aqueous solutions and reagents, including EIA and ELISA samples

Nylon

- Naturally hydrophilic, low extractables
- Useful for sterilizing cryoprotectants such as DMSO and with aqueous/biological and nonaqueous/HPLC/GC solvent applications

Membrane	Pore Size	Sterile	Color Code	Mfr. No.	Cat. No.	Pack of 100
CA	0.2µm	No	Blue	171-0020	**09-740-34A**	339.00
CA	0.45µm	No	Orange	171-0045	**09-740-34B**	339.00
Nylon	0.2µm	No	Purple	176-0020	**09-740-34C**	339.00
Nylon	0.45µm	No	Green	176-0045	**09-740-34D**	339.00

Thermo Scientific™ Nalgene™ Syringe Filters — 13mm Diameter

Accommodate sample volumes from 2 to 10mL

PTFE

- Naturally hydrophobic
- Ideal for sterile venting of air or other gases during filtration
- Membrane is in polypropylene housing that is resistant to corrosive acids and bases, organic solvents
- Excellent for HPLC/GC solvent filtration
- Nonsterile; Autoclavable

13mm Syringe Filters

Polyethersulfone (PES)

- Higher flowrates, lower protein binding and lower extractables than cellulosic membranes
- Ideal for sterile filtration and clarification of cell culture media, buffers and additives
- Naturally hydrophilic; contains no wetting agents
- Membrane is in modified acrylic housings
- Certified sterile, nono-cytotoxic and non-pyrogenic
- Do not autoclave

Membrane	Pore Size	Sterile	Mfr. No.	Cat. No.	Case of
Acrylic housing					
PES	0.2µm	Yes	180-1320	**09-740-50**	50/182.99
Polypropylene housing					
PTFE	0.2µm	No	187-1320	**09-740-52A**	100/298.66
PTFE	0.45µm	No	187-1345	**09-740-52B**	100/303.00

Thermo Scientific™ Nalgene™ Syringe Filters — 25mm Diameter

Accommodate sample volumes of 10 to 50mL

09-740 Series

Surfactant-free Cellulose Acetate (SFCA)

- Low protein binding
- Ideal for sterilization and clarification of: biological/immunological samples, cell culture media and additives, and biological fluids
- Have no wetting agents
- Modified acrylic housings
- Membrane of choice for sterilization

Cellulose Acetate (CA)

- Low protein binding
- Ideal for sterile filtration and clarification of buffers, aqueous solutions and reagents
- Modified acrylic housings
- Sterile

Nylon

- Naturally hydrophilic, low extractables
- Useful for sterilizing cryoprotectants such as DMSO and with aqueous/biological and nonaqueous/HPLC/GC solvent applications
- Polypropylene housings
- Autoclavable

Membrane	Pore Size	Sterile	Mfr. No.	Cat. No.	Pack of
SFCA	0.2µm	Yes	190-2520	**09-740-35A**	50/178.05
SFCA	0.45µm	Yes	190-2545	**09-740-35B**	50/177.84
SFCA	0.2µm	Yes	190-9920	**09-740-37F**	125/434.36
SFCA	0.45µm	Yes	190-9945	**09-740-37G**	125/434.36
CA	0.8µm	Yes	190-2580	**09-740-35C**	50/180.30
Polypropylene housing					
Nylon	0.2µm	Yes	195-2520	**09-740-35J**	50/219.50
Nylon	0.45µm	Yes	195-2545	**09-740-35K**	50/219.50

Corning™ Syringe Filters

High burst strength for assured performance

For tissue culture and HPLC applications.

Diameters

- 4, 15, 25 or 26mm diameters handle volumes ranging from 0.5 to 100mL
- 50mm diameter PTFE syringe filter is ideal for protecting vacuum lines and pumps
- 26mm PES and SFCA filters feature effective filtration areas that are 25 to 45% larger than other brands; with modified acrylic housing for very low protein binding and minimal loss of valuable proteins

Pore Sizes

- 0.2µm filter for very fine particulate removal
- 0.45µm pore size for most clarification applications
- 0.2µm SFCA filter available with or without built-in prefilter that extends filter life when using viscous, proteinaceous or high-particulate samples

Filters

- Regenerated cellulose (RC): excellent chemical resistance, low protein binding, best DMSO compatibility
- Polyethersulfone (PES): low-protein binding, faster flowrates, higher throughput
- Surfactant-free cellulose acetate (SFCA): lowest protein binding
- Nylon (NY): naturally hydrophilic, require no wetting agents. Good chemical compatibility, ideal for aqueous and most organic samples
- PTFE resin (PTFE): for working with gases or aggressive organic solvents)

ORDERING INFORMATION:

Pore size and membrane type is printed on every syringe filter. Sterile filters are individually blister-wrapped in cases of 50, nonsterile in cases of 50. The 50mm PTFE syringe filter is supplied in case of 12.

09-754-28

COMPLIANCE:

Manufactured to ISO 9002 and GMP standards, and 100% integrity tested. HPLC-certified filters (RC, NY, and PTFE) undergo extensive testing to ensure no extraneous peaks in UV range.

Material	Pore Size	Diameter	Mfr. No.	Cat. No.	Case of
Polypropylene Housing					
RC	0.2µm	4mm	431212	**09-754-3**	50/98.90
RC	0.2µm	15mm	431215	**09-754-6**	50/124.90
RC	0.2µm	25mm	431222	**09-754-23**	50/167.84
NY	0.2µm	25mm	431224	**09-754-25**	50/167.84
NY	0.45µm	25mm	431225	**09-754-26**	50/170.90
PTFE	0.2µm	50mm	431227	**09-754-28**	12/163.20
PTFE	0.45µm	25mm	431231	**09-754-38** †	50/172.80
Acrylic Housing					
PES	0.2µm	28mm	431229	**09-754-29**	50/156.63
SFCA	0.2µm	26mm	431219	**09-754-13**	50/166.99
SFCA	0.2µm	26mm	431218	**09-754-12**‡	50/202.00
SFCA	0.45µm	26mm	431220	**09-754-21**	50/166.99
SFCA	0.8µm	26mm	431221	**09-754-22**	50/170.90

Typical Characteristics

Filter	RC			PES	SFCA	NY	PTFE			
Medium	Regenerated cellulose. HPLC certified and sterile†			Polyethersulfone, sterile	Surfactant-free cellulose acetate, sterile	Nylon. HPLC certified and sterile	Teflon fluorocarbon resin. HPLC certified and nonsterile‡			
Applications	Tissue culture and HPLC. Compatible with DMSO; extra chemical compatibility, low protein binding. Choose 0.2µm pore size for sterile filtration and ultra cleaning; 0.45µm for particle removal/clarification.			Tissue culture. High throughput/flowrate. Low protein binding. Choose 0.2µm pore size for sterile filtration and ultra cleaning; 0.45µm for particle removal/ clarification.	Tissue culture. Lowest protein binding. Choose 0.2µm pore size for sterile filtration and ultra cleaning; 0.45µm for particle removal and clarification; and 0.8µm for coarse particle removal.	Tissue culture and HPLC. Low extractables, naturally hydrophilic. Ideal for aqueous and most organic samples. Choose 0.2µm pore size for sterile filtration and ultra cleaning; 0.45µm for particle removal/ clarification.	HPLC. For gases or aggressive organic solvents. Choose 0.2µm pore size for sterile filtration and ultra cleaning; 0.45µm for particle removal/clarification.			
Diameter	4mm	15mm	25mm	26mm	26mm	25mm	4mm	15mm	25mm	50mm
Filter Area	0.07cm²	1.7cm²	4.8cm²	5.3cm²	5.3cm²	4.8cm²	0.07cm²	1.7cm²	4.8cm²	20cm²
Pore Size	0.2, 0.45µm			0.2µm	0.2, 0.45, 0.8µm	0.2, 0.45µm	0.2, 0.45µm			
Hold-up Volume	5µL	10µL	150µL	100µL	100µL	150µL	5µL	10µL	100µL	500µL
Housing	Polypropylene			Acrylic	Acrylic	Polypropylene	Polypropylene			
Temp. Limit	127°C (260.6°F)			50°C (122°F)	50°C (122°F)	127° C (260.6°F)	127° C (260.6°F)			
Pressure Limit	87psi	87psi	87psi	87psi	87psi	87psi	87psi	87psi	87psi	58psi
Connections	Inlet: female locking Luer Outlet: male slip Luer			Inlet: female locking Luer Outlet: male slip Luer	Inlet: female locking Luer Outlet: male slip Luer	Inlet: female locking Luer Outlet: male slip Luer	Inlet: hose barb Outlet: hose barb			

† Except 09-754-3, which is nonsterile.

‡ Except 09-754-28, which is not HPLC certified and is sterile.

Whatman™ GD/X™ 13 and 25mm Disposable Syringe Filters

Designed for easy filtration of hard-to-filter samples

Use 13mm diameter filters for samples up to 10mL; 25mm size for samples greater than 10mL.

09-927-26D

- Polypropylene housing
- Variety of membrane choices
- Female Luer-Lok™ inlet; male slip Luer outlet
- Flow should enter from the inlet
- Autoclavable at 121°C (250°F) at 15psi for 20 minutes
- Maximum temperature, 131°C (267°F)
- Filtration area: 13mm - 1.3cm²; 25mm - 4.6cm²
- Pressure limit: 13mm - 100psi; 25mm - 75psi
- All materials biosafe — pass USP Class VI requirements
- Prefiltration media: 100% Borosilicate glass fiber GMF 150 10µm: 1µm GF/F 0.7µm
- **Nylon (NYL)** - Hydrophilic, good resistance to most common HPLC solvents; limited resistance to acids, bases, halogenated hydrocarbons, aldehydes and strong oxidizing agents
- **Polyvinylidene Fluoride (PVDF)** - Suitable for most HPLC sample prep applications; slightly hydrophobic with low water breakthrough values. Good chemical resistance to common HPLC solvents, low protein binding and negligible extractables
- **Polytetrafluoroethylene (PTFE)** - Hydrophobic, does not allow water to pass without high pressures; aqueous solutions can be filtered if the membrane is initially "wetted" with alcohol or another appropriate solvent
- **Polyethersulfone (PES)** - For filtration of protein-containing solutions where minimal adsorptive protein loss is desired; meets special filtration requirements of durability, high temperature resistance, good chemical compatibility, and low protein adsorption
- **Polysulfone (PSU)** - Low protein binding membrane for samples in aqueous solutions
- **Polypropylene (PP)** - Provides high flow with both solvent and aqueous compatibility; broad range of solvent/chemical resistance
- **Cellulose Acetate (CA)** - For biological solutions where high loading capacity and low protein binding are important concerns; surfactant-free; minimizes risk of filtrant contamination from aqueous-based extractables
- **Glass Fiber (GF)** - All glass fiber membranes are made of borosilicate glass microfibers

  GF/A -
  - For fine particle retention, high flowrate, good loading capacity
  - No binders
  - Used for filtration of precipitated proteins
  - Attains high counting efficiencies in radioassays of weak ß-emitters

  GF/B -
  - Provides higher wet strength and significantly increased loading capacity
  - Combines fine particle retention with good flowrate

  GF/C -
  - Fine retention of particles and microorganisms, good flowrate, high loading capacity
  - Ideal for collecting suspended particles in potable water, natural and industrial wastes

  GF/D -
  - For high loading capacity and wet strength, extremely high speed
  - Ideal for repetitive routine filtrations

  GF/F -
  - Meets requirements of U.S. EPA Toxicity Characteristic Leaching Procedure (TCLP)
  - Very rapid flowrate and extremely high loading capacity. Effective in filtering finely precipitated proteins
- **934-AH** - Specified in official methods for testing suspended solids in water pollution monitoring; borosilicate glass microfiber membrane for high loading capacity and high retention efficiency at high flowrate
- **GMF** - Resistant to weakening or disruption of the fibrous matrix by inorganic or organic solutions and has a broad chemical compatibility; made of borosilicate glass microfibers

ORDERING INFORMATION:
Each unit includes a stack of Whatman Multigrade GMF 150 (10:1µm) and Grade GF/F 0.7µm prefilters.

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Nylon				
0.2µm	13mm	6870-1302	**09-927-26A**	150/486.50
0.2µm	13mm	6871-1302	**09-927-27A**	1500/3430.00
0.2µm	25mm	6870-2502	**09-927-26C**	150/611.50
0.2µm	25mm	6871-2502	**09-927-27C**	1500/3640.00
0.45µm	13mm	6870-1304	**09-927-26B**	150/486.50
0.45µm	13mm	6871-1304	**09-927-27B**	1500/3360.00
0.45µm	25mm	6870-2504	**09-927-26D**	150/629.50
0.45µm	25mm	6871-2504	**09-927-27D**	1500/3850.00
5.0µm	25mm	6870 2550	**09-927-48**	150/625.50

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Polyvinylidene Fluoride (PVDF)				
0.2µm	13mm	6872-1302	**09-927-28A**	150/498.00
0.2µm	25mm	6872-2502	**09-927-28C**	150/624.50
0.2µm	25mm	6873-2502	**09-927-29C**	1500/3750.00
0.2µm	25mm	6900-2502	**09-927-54A**†	50/209.50
0.45µm	13mm	6872-1304	**09-927-28B**	150/498.00
0.45µm	13mm	6873-1304	**05-713-722**	1500/3420.00
0.45µm	25mm	6872-2504	**09-927-28D**	150/610.50
0.45µm	25mm	6873-2504	**09-927-29D**	1500/3610.00
0.45µm	25mm	6900-2504	**09-927-54B**†	50/215.50

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Polytetrafluoroethylene (PTFE)				
0.2µm	13mm	6874-1302	**09-927-30A**	150/498.50
0.2µm	25mm	6874-2502	**09-927-30C**	150/621.50
0.2µm	25mm	6875-2502	**09-927-31C**	1500/3770.00
0.45µm	13mm	6874-1304	**09-927-30B**	150/492.50
0.45µm	13mm	6875-1304	**09-927-31B**	1500/3500.00
0.45µm	25mm	6874-2504	**09-927-30D**	150/630.50
0.45µm	25mm	6875-2504	**09-927-31D**	1500/3640.00

Whatman™ GD/X™ 13 and 25mm Disposable Syringe Filters Contd.

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Polyethersulfone (PES)				
0.2µm	25mm	6896-2502	**09-927-43A**†	50/208.50
0.2µm	25mm	6897-2502	**09-927-44A**†	500/1853.00
0.45µm	13mm	6876-1304	**09-927-32B**	150/503.00
0.45µm	25mm	6896-2504	**09-927-43B**†	50/210.00
0.45µm	25mm	6897-2504	**09-927-44B**†	500/1954.00

Pore Size	Diameter	Mfr. No.	Cat. No.	Case of
GMF				
0.45µm	13mm	6894-1304	**09-927-41A**	150/490.50
0.45µm	13mm	6818-1304	**09-914-34**	500/1473.00
0.45µm	25mm	6894-2504	**09-927-41B**	150/631.50
0.45µm	25mm	6895-2504	**09-927-42B**	1500/3650.00
0.45µm	25mm	6902-2504	**09-927-56**†	50/213.00

†*Sterile*

Pore Size	Diameter	Filtration Area	Mfr. No.	Cat. No.	Pack of 150
Polysulfone (PSU)					
0.2µm	13mm	1.3cm²	6876-1302	**09-927-32A**	493.00
0.2µm	25mm	4.6cm²	6876-2502	**09-927-32C**	622.50

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of 150
Polypropylene (PP)				
0.2µm	13mm	6878-1302	**09-927-33A**	488.50
0.2µm	25mm	6878-2502	**09-927-33C**	616.00
0.45µm	13mm	6878-1304	**09-927-33B**	488.50
0.45µm	25mm	6878-2504	**09-927-33D**	616.00

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Cellulose Acetate (CA)				
0.2µm	13mm	6880-1302	**09-927-34A**	150/489.50
0.2µm	25mm	6880-2502	**09-927-34C**	150/617.50
0.2µm	25mm	6901-2502	**09-927-55A**†	50/212.00
0.45µm	13mm	6880-1304	**09-927-34B**	150/489.50
0.45µm	25mm	6880-2504	**09-927-34D**	150/627.00
0.45µm	25mm	6901-2504	**09-927-55B**†	50/211.00

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
GF/A				
1.6µm	13mm	6882-1316	**09-927-35A**	150/480.00
1.6µm	25mm	6882-2516	**09-927-35B**	150/605.50
GF/B				
1.0µm	13mm	6884-1310	**09-927-36A**	150/480.00
1.0µm	25mm	6884-2510	**09-927-36B**	150/605.50
GF/C				
1.2µm	13mm	6886-1312	**09-927-37A**	150/480.50
1.2µm	25mm	6886-2512	**09-927-37B**	150/605.50
GF/D				
2.7µm	13mm	6888-1327	**09-927-38A**	150/480.00
2.7µm	25mm	6888-2527	**09-927-38B**	150/605.50
GF/F				
0.7µm	13mm	6890-1307	**09-927-39A**	150/480.00
0.7µm	25mm	6890-2507	**09-910-29**	150/605.50
0.7µm	25mm	6891-2507	**05-713-170**	1500/3640.00

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of 150
934-AH				
1.5µm	25mm	6892-2515	**09-927-40B**	623.50

Whatman™ GD/XP™ 25mm Nonsterile Syringe Filters

Ideal for trace metal analysis

Designed to prepare and enhance inorganic ion analysis of hard-to-filter samples >10mL. Suitable for a variety of applications.

09-930-26

- 25mm diameter with 0.45µm pore size
- Contain a unique prefiltration stack of proprietary polypropylene prefilters
- Autoclave at 121°C (131°C max.) at 1 bar (15psi) for 20 minutes
- Nonsterile
- Volume: 'Hold Up' full housing with air purge 250µL (1.4mL) (approx.)

APPLICATIONS:

- HPLC sample preparation
- Trace metal analysis
- Sample preparation prior to determination of dissolved heavy metals

COMPLIANCE:

All materials pass USP Class VI.

Specifications	
Housing	Polypropylene (pigment free)
Filtration Area	4.6cm²
Max. Pressure	5.2 bar (75psi)
Dimensions	20.8 x 30.0mm
Weight	3g (approx.)
Flow Direction	Flow should enter from the inlet
Inlet Connection	Female luer lock
Outlet Connection	Male Luer
Prefiltration Media	PP 20µm : 5µm

Membrane	Mfr. No.	Cat. No.	Pack of
Nylon	6970-2504	**09-930-20**	150/644.50
Nylon	6971-2504	**09-930-21**	1500/3780.00
PVDF	6972-2504	**09-930-22**	150/644.50
PVDF	6973-2504	**09-930-23**	1500/3780.00
PTFE	6974-2504	**09-930-24**	150/654.00
PP	6978-2504	**09-930-26**	150/654.00
PP (Depth filter)	6993-2504	**09-930-29**	1500/3780.00
PES	6994-2504	**09-930-30**	150/771.00
PES	6995-2504	**09-930-31**	1500/3780.00

Whatman™ Puradisc 25mm Syringe Filters

Low hold-up volume — less than 0.1mL with air purge

05-713-386

Disposable syringe filters for purifying aqueous and organic solutions. All six filter types have polypropylene housings, female Luer-Lock™ inlet and male slip Luer outlet.

Puradisc PES

- Polyethersulfone (PES) membrane for filtering aqueous solutions
- Low protein binding
- Nonsterile packages or radiation-sterilized blister packs

Puradisc GD

- Graded-density membrane, very high loading capacity
- Designed for HPLC, TLC or GC applications requiring 1µm particle retention
- Use for filtering high debris, hard-to-filter solutions
- Made of multilayered glass microfiber
- Nonsterile

Puradisc GF/F

- High loading capacity for air/gas filtration, HPLC, TLC and GC sampling
- Membrane made of binder-free glass microfiber
- Nonsterile

Puradisc NYL

- For filtering aqueous or solvent-based solutions, HPLC, TLC and GC sampling
- Membrane made of nylon
- Nonsterile

Puradisc TF

- For filtering solvents, chemicals and nonaqueous solutions
- Typical applications include HPLC, TLC and GC sample clarification; HPLC solvent filtration
- Made of hydrophobic polytetrafluoroethylene (PTFE)
- Nonsterile, autoclavable

Puradisc PP

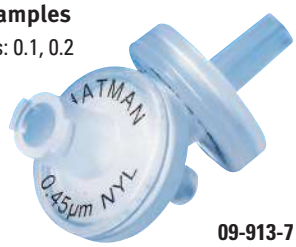
- Polypropylene media designed for aqueous and organic solutions containing high debris levels and for hard-to-filter solutions
- Nonsterile, autoclavable

Membrane	Pore Size	Mfr. No.	Cat. No.	Pack of
Sterile				
PTFE	5µm	6784-1350	**09-302-212**	100/258.50
PES	0.2µm	6780-2502	**05-713-386**	50/129.80
PES	0.45µm	6780-2504	**05-713-387**	50/130.60
PES	1.0µm	6780-2510	**05-713-388**	50/135.90
Nonsterile				
PES	0.45µm	6794-2504	**05-713-384**	1000/1810.00
PES	0.2µm	6781-2502	**05-713-389**	200/713.50
PES	0.45µm	6781-2504	**05-713-390**	200/689.00
PES	1.0µm	6781-2510	**05-713-391**	200/714.00
GD	1.0µm	6783-2510	**05-713-393**	100/397.00
GF/F	0.7µm	6825-2527	**05-713-383**	200/689.00
NYL	0.2µm	6750-2502	**05-710A**	50/264.00
NYL	0.2µm	6751-2502	**05-710-1A**	200/719.50
NYL	0.2µm	6753-2502	**05-710-3A**	1000/1810.00
NYL	0.45µm	6750-2504	**05-710B**	50/260.50
NYL	0.45µm	6751-2504	**05-710-1B**	200/701.50
NYL	0.45µm	6752-2504	**05-710-2B**	500/1236.00
NYL	0.45µm	6753-2504	**05-710-3B**	1000/1892.00
NYL	1.0µm	6750-2510	**05-710C**	50/264.00
NYL	1.0µm	6751-2510	**05-710-1C**	200/711.00
NYL	1.0µm	6753-2510	**05-710-3C**	1000/1810.00
PTFE	0.1µm	6784-2501	**05-713-395**	50/265.50
PTFE	0.2µm	6784-2502	**05-713-396**	50/267.50
PTFE	0.2µm	6785-2502	**05-713-399**	200/702.00
PTFE	0.45µm	6784-2504	**05-713-397**	50/267.50
PTFE	0.45µm	6785-2504	**05-713-400**	200/683.54
PTFE	1.0µm	6784-2510	**05-713-398**	50/267.50
Polypropylene	0.2µm	6786-2502	**05-713-401**	50/269.00
Polypropylene	0.2µm	6788-2502	**05-713-403**	200/696.50
Depth polypropylene	0.45µm	6786-2504	**05-713-402**	50/265.00
Depth polypropylene	0.45µm	6788-2504	**05-713-404**	200/690.00
Depth polypropylene	0.45µm	6790-2504	**05-713-404A**	1000/1855.90

Whatman™ 4 and 13mm Puradisc Nylon Syringe Filters

For aqueous or aqueous-organic samples

- Nylon membrane in three pore sizes: 0.1, 0.2 and 0.45µm
- Polypropylene-housed filters
- Nonsterile or presterilized by gamma radiation
- Good resistance to methanol; limited resistance to acetonitrile
- Inlet is a female Luer-Lock™; outlet has male slip Luer



09-913-7

4mm dia. Filters

- For samples ≤2mL
- Filter area 0.2cm²
- Hold-up volume with air purge P10µL

13mm dia. Filters

- Handle samples up to 10mL
- Filter area 1.3cm2 Hold-up volume with air purge ≤25µL

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Sterile				
0.1µm	13mm	6786-1301	**09-913-3**	50/206.00
0.2µm	4mm	6786-0402	**09-913-2**	50/159.10
0.2µm	13mm	6786-1302	**09-913-4**	50/206.00
Nonsterile				
0.1µm	13mm	6789-1301	**09-913-8**	100/311.00
0.2µm	4mm	6789-0402	**09-913-6**	100/225.50
0.2µm	4mm	6790-0402	**09-913-11**	500/1016.00
0.2µm	13mm	6789-1302	**09-913-9**	100/301.00
0.2µm	13mm	6790-1302	**09-913-13**	500/1468.00
0.45µm	4mm	6789-0404	**09-913-7**	100/225.00
0.45µm	13mm	6789-1304	**09-913-10**	100/301.00
0.45µm	13mm	6790-1304	**09-913-14**	500/1473.00

Whatman™ 4 and 13mm Puradisc PTFE Syringe Filters

With hydrophobic membrane for use with organic samples

09-911-7

- Excellent resistance to all organic solvents
- Polypropylene-housed filters
- Inlet is female Luer-Lock™; outlet is male slip Luer
- Nonsterile
- Autoclavable

4mm dia. Filters

- For samples up to 2mL
- Filter area: 0.2cm²
- Hold-up volume (with air purge) of P10µL

13mm dia. Filters

- For samples to 10mL
- Filter area: 1.3cm²
- Hold-up volume (with air purge) of ≤25µL

NOTES:
Not recommended for aqueous samples.

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
0.1µm	13mm	6784-1301	**09-911-1**	100/305.50
0.2µm	4mm	6784-0402	**09-911-5**	100/233.50
0.2µm	4mm	6783-0402	**09-911-3**	500/1025.00
0.2µm	13mm	6783-1302	**09-911-4**	500/1456.00
0.2µm	13mm	6784-1302	**09-911-6**	100/306.50
0.45µm	4mm	6783-0404	**09-911-7**	500/994.00
0.45µm	13mm	6784-1304	**09-911-2**	100/300.50
0.45µm	13mm	6783-1304	**09-911-8**	500/1453.00
0.45µm	13mm	6766-1304	**09-754-46**	2000/3490.00
1.0µm	13mm	6784-1310	**09-911-11**	100/312.00

Whatman™ 4 and 13mm Puradisc PVDF Syringe Filters

With inherently hydrophilic membrane for filtering aqueous or organic samples

09-926-40

- Good resistance to organic solvents
- Nonsterile or gamma radiation-sterilized
- Polypropylene housing
- Autoclavable
- Available with tube-tip outlet that allows direct filtration into microvial inserts, or with male slip Luer outlet
- Inlet is female Luer-Lock™ type

4mm dia. Filters

- Filter area: 0.2cm²; Sample and hold-up volumes ≤2mL and ≤7.5µL

13mm dia. Filters

- Filter area: 1.3cm²; Sample and hold-up volumes ≤10mL and ≤25µL

Pore Size	Diameter	With Tube Tip	Mfr. No.	Cat. No.	Pack of
Sterile					
0.2µm	4mm	No	6791-0402	**09-910-15**	50/199.50
0.2µm	13mm	Yes	6778-1302	**09-910-8**	50/255.89
0.2µm	13mm	No	6791-1302	**09-910-18**	50/223.50
0.45µm	13mm	No	6791-1304	**09-910-19**	50/223.50
Nonsterile					
0.2µm	4mm	Yes	6777-0402	**09-910-1**	50/199.30
0.2µm	4mm	No	6779-0402	**09-910-11**	100/294.00
0.2µm	13mm	Yes	6777-1302	**09-910-2**	50/211.00
0.2µm	13mm	No	6779-1302	**09-910-13**	100/306.50
0.2µm	13mm	No	6792-1302	**09-910-22**	500/1470.00
0.45µm	4mm	Yes	6777-0404	**09-926-40**	50/199.50
0.45µm	4mm	No	6779-0404	**09-910-12**	100/281.00
0.45µm	4mm	No	6792-0404	**09-926-38**	500/1196.00
0.45µm	13mm	Yes	6777-1304	**09-910-3**	50/211.00
0.45µm	13mm	No	6779-1304	**09-910-14**	100/306.50
0.45µm	13mm	No	6792-1304	**09-910-23**	500/1470.00
0.45µm	13mm	No	6765 1304	**05-713-409**	2000/3500.00

Whatman™ Puradisc 13mm Nonsterile Glass Microfiber Syringe Filters

For aqueous or organic samples up to 10mL

- Good chemical resistance and high sample throughput
- Hold-up volume: ≤25µL
- Filter area: 1.3cm²
- Polypropylene housing
- Autoclavable at 121°C for 20 minutes
- Intlet, female Luer-Lock™; outlet, male slip Luer

09-914-5

Microfiber	Pore Size	Mfr. No.	Cat. No.	Pack of 100
GF/F	0.7µm	6825-1307	**09-914-5**	306.50
GF/B	1.0µm	6821-1310	**09-914-2**	306.50
GF/C	1.2µm	6822-1312	**09-914-3**	306.50
GF/A	1.6µm	6820-1316	**09-914-1**	306.50
GF/D	2.7µm	6823-1327	**09-914-4**	306.50

Whatman™ Anotop™ Disposable Syringe Filters

Remove virtually 100% of particulates larger than pore size

Compatible with aqueous suspensions and a wide range of organic solvents. Handle volumes up to 5mL (10mm diameter filter) or 100mL (25mm diameter filter).

- Nondeformable, honeycombed Anopore™ membrane
- Inherently hydrophilic membrane is free of adhesives and surfactants
- Low protein binding, low fluid retention for maximum sample recovery
- Unidirectional flow

Typical Characteristics		
Filter	Anotop 10	Anotop 25
Medium	Anopore inorganic membrane (alumina matrix)	
Applications	HPLC aqueous/organic sample preparation, cold sterilization of growth media, solvent filtration for spectroanalysis, phage and virus filtration, liposome extrusion, removal of high molecular weight proteins or polymers, colloid removal from deionized water	
Diameter	10mm	25mm
Filter Area	0.55cm²	2.45cm²
Pore Size	0.02, 0.1, 0.2µm	0.02, 0.1, 0.2µm
Hold-up Volume	P20µL	P150µL
Housing	Polypropylene	Polypropylene
Temperature Limit	45°C (113°F)	45°C (113°F)
Pressure Limit	7kg/cm² (100psi)	5.2kg/cm² (75psi)
Connections	Inlet: female Luer-Lock™ Outlet: male slip Luer	

09-926 Series

ORDERING INFORMATION:
Hexagonal, thermal-welded polypropylene housing is free of adhesives and binders. Sterile units are individually packaged to avoid contamination.

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Sterile				
0.02µm	25mm	6809-2102	**09-926-13**	50/655.50
0.1µm	10mm	6809-1112	**09-926-5**	50/460.00
0.1µm	25mm	6809-2112	**09-926-12**	50/751.50
0.2µm	25mm	6809-2122	**09-926-11**	50/707.50
Nonsterile				
0.02µm	10mm	6809-1002	**09-926-3**	50/482.50
0.02µm	25mm	6809-2002	**09-926-9**	50/640.00
0.1µm	10mm	6809-1012	**09-926-2**	50/421.00
0.1µm	25mm	6809-2012	**09-926-8**	50/577.50
0.2µm	10mm	6809-1022	**09-926-1**	50/403.00
0.2µm	25mm	6809-2022	**09-926-7**	50/555.00
0.2µm	25mm	6809-2024	**09-926**	200/1897.00

Whatman™ Anotop™ Plus 10 and 25mm Syringe Filters

Hold-up volume: <30µL (10mm size), <200µL (25mm)

Similar to Anotop™ filters, but include binder-free, glass microfiber prefilter with Anotop inorganic membrane in a polypropylene housing.

09-926-21, -22, -23

Glass Microfiber Prefilter

- Increases throughput
- Maintains membrane performance
- Reduces need for centrifuging before filtering, sequential filtering or refiltering
- Permits use of 0.1µm pore size Anotop Plus filters to remove mycoplasma contaminants from tissue culture

Characteristics

- Hold-up volume: <30µL (10mm size), <200µL (25mm)
- Pressure limit: 7kg/cm (100psi)

Pore Size	Diameter	Mfr. No.	Cat. No.	Pack of
Sterile				
0.7/0.02µm	10mm	6809-3102	**09-926-19**	50/607.50
0.7/0.02µm	25mm	6809-4102	**09-926-26**	50/879.00
0.7/0.1µm	10mm	6809-3112	**09-926-18**	50/547.50
0.7/0.1µm	25mm	6809-4112	**09-926-25**	50/786.42
0.7/0.2µm	10mm	6809-3122	**09-926-17**	50/523.50
0.7/0.2µm	25mm	6809-4122	**09-926-24**	50/751.50
Nonsterile				
0.7/0.02µm	10mm	6809-3002	**09-926-16**	50/555.50
0.7/0.02µm	25mm	6809-4002	**09-926-22**	50/751.50
0.7/0.1µm	10mm	6809-3012	**09-926-15**	50/511.50
0.7/0.1µm	25mm	6809-4012	**09-926-21**	50/693.00
0.7/0.2µm	10mm	6809-3022	**09-926-14**	50/492.50
0.7/0.2µm	25mm	6809-4022	**09-926-20**	50/676.50
0.7/0.2µm	25mm	6809-4024	**09-926-23**	200/2130.00

Whatman™ Anotop™ IC Syringe Filter

Ultraclean IC sample preparation

- 10mm diameter, 0.2µm pore size filter
- Provides extremely low anion leaching levels and hold-up volume
- Highly efficient retention of particles larger than stated pore size
- Anopore™ inorganic membrane in polypropylene housing
- Nonsterile, disposable

09-926-28

Typical Characteristics	
Filter	Anotop IC
Medium	Anopore inorganic (alumina matrix)
Applications	Sample preparation for ion chromatography. Typical anion leaching levels:[1] fluoride, <10ppb; chloride, <15ppb; bromide, <20ppb; sulfate, nitrite or nitrate, <30ppb; phosphate, <75ppb.
Diameter	10mm
Filter Area	0.78cm²
Pore Size	0.2µm
Hold-up Volume	P20µL
Housing	Polypropylene
Pressure Limit	100psi
Connections	Inlet: female Luer-Lok™; Outlet: male slip Luer.

Description	Mfr. No.	Cat. No.	Pack of 250
IC Syringe Filter	6809-9235	**09-926-28**	2230.00

Sartorius™ Minisart™ NML Syringe Filter

For sterile and reliable filtration of small to medium volumes, complete ready-to-connect filter units with CA-membrane

For fast and reliable filtration of small to medium volumes, complete ready-to-connect filter units are very popular in the laboratory. They eliminate time consuming preparatory work, such as changing out the filter and cleaning the filtration system. These labor saving units are used for a wide variety of applications such as sample cleaning, particle removal and sterile filtration.

14-555-270

- Handy and readily available
- Easy to use
- Proven quality
- Economical
- Come in a wide array of different types
- 100 % tested during

Description	Mfr. No.	Cat. No.	Pack of
0.2µm; Sterile; individually packed; Luer Lock outlet	16534----------K	**14-555-270**	50/145.00
0.2µm; Gamma-Sterile; individually packed	16534----------GUK	**14-555-269**	50/145.00
0.2µm; Non-Sterile; Bulk packed; Luer Lock outlet	16534----------Q	**14-555-271**	500/837.00
0.2µm; Sterile; individually packed; Luer Slip outlet	17597----------K	**14-555-306**	50/145.00
0.2µm; Non-Sterile; Bulk packed; Luer slip outlet	17597----------Q	**14-555-307**	500/837.00
0.45µm; Gamma-Sterile; individually packed	16555----------GUK	**14-555-276**	50/145.00
0.45µm; Sterile; individually packed; Luer Lock outlet	16555----------K	**14-555-277**	50/145.00
0.45µm; Non-Sterile; Bulk packed; Luer Lock outlet	16555----------Q	**14-555-278**	500/837.00
0.45µm; Sterile; individually packed; Luer slip outlet	17598----------K	**14-555-308**	50/145.00
0.45µm; Non-Sterile; Bulk packed; Luer slip outlet	17598----------Q	**14-555-309**	500/837.00
0.65µm; Sterile; individually packed; Luer Lock outlet	16569----------K	**14-555-279**	50/135.80
0.8µm; Sterile; individually packed; Luer Lock outlet	16592----------K	**14-555-281**	50/135.80
0.8µm; Gamma-Sterile; individually packed	16592----------GUK	**14-555-280**	50/135.80
0.8µm; Non-Sterile; Bulk packed; Luer Lock outlet	16592----------Q	**14-555-282**	500/815.00
1.2µm; Sterile; individually packed; Luer Lock outlet	17593----------K	**14-555-301**	50/135.80
1.2µm; Non-Sterile; Bulk packed; Luer Lock outlet	17593----------Q	**14-555-302**	500/815.00
0.5µm; Sterile; individually packed; Luer Lock outlet	17594----------K	**14-555-303**	50/145.00
5µm; Non-Sterile; Bulk packed; Luer Lock outlet	17594----------Q	**14-555-304**	500/837.00
0.2µm	17528----------K	**14-555-1001**	50/139.86

Sartorius™ Minisart™ HF Syringe Filters

For fast and reliable filtration of small to medium volumes, complete ready-to-connect filter units

For sterile and reliable filtration of small to medium volumes. Fast and reliable filtration of small to medium volumes, complete ready-to-connect filter units are very popular in the laboratory. They eliminate time consuming preparatory work, such as changing out the filter and cleaning the filtration system. These labor saving units are used for a wide variety of applications such as sample cleaning, particle removal and sterile filtration.

14-555-275

- Handy and readily available
- Easy to use
- Proven quality
- Economical
- 100% tested during manufacturing

Description	Mfr. No.	Cat. No.	Price
0.1µm; Sterile; Individually packed; Connector outlet: Male luer Lock; 50/Pk.	16553----------K	**14-555-275**	141.70
0.2µm; Gamma Sterile; Individually packed; Connector outlet: Male luer Lock; 50/Pk.	16532--------GUK	**14-555-263**	141.70
0.2µm; Non-Sterile; Bulk-Packed; Connector outlet: Male luer Lock; 500/Pk.	16532----------Q	**14-555-265**	805.50
0.2µm;; Sterile; Individually packed; Connector outlet: Male luer Lock; 50/Pk.	16532----------K	**14-555-264**	141.70
0.2µm;; Sterile; Individually packed; Connector outlet: Male luer Slip; 50/Pk.	16541----------K	**14-555-274**	141.70
0.45µm; Gamma Sterile; Individually packed;Connector outlet: Male luer Slip; 50/Pk.	16533--------GUK	**14-555-266**	141.70
0.45µm; Non-Sterile; Bulk-Packed; Connector outlet: Male luer Lock; 50/Pk.	16537----------K	**14-555-272**	141.70
0.45µm; Non-Sterile; Bulk-Packed; Connector outlet: Male luer Lock; 500/Pk.	16537----------Q	**14-555-273**	805.50
0.45µm; Non-Sterile; Bulk-Packed; Connector outlet: Male luer Slip; 500/Pk.	16533----------Q	**14-555-268**	805.50
0.45µm; Sterile; Individually packed; Connector outlet: Male luer Slip; 50/Pk.	16533----------K	**14-555-267**	141.70

Sartorius™ Minisart™ NY Syringe Filters

For rapid small volume filtration of both aqueous and solvent-based samples with maximum user convinience

- Sterile filtration
- Particle removal
- Easy to handle
- Proven quality
- 100% tested during manufacture

14-555-323

Description	Mfr. No.	Cat. No.	Price
0.2µm; Non-sterile; 50/Pk.; Bulk packed; Luer slip outlet	1776B----------K	**14-555-323**	115.50
0.45µm; Non-sterile; 50/Pk.; Bulk packed; Luer slip outlet	1776C----------K	**14-555-325**	115.50
0.2µm + GF; Non-sterile; 50/Pk.; Bulk packed; Luer slip outlet	1784B----------K	**14-555-346**	249.50
0.45µm + GF; Non-sterile; 50/Pk.; Bulk packed; Luer slip outlet	1784C----------K	**14-555-348**	249.50

Bulk pack sizes are available.

Sartorius™ Minisart™ SRP Syringe Filters

Ready-to-use units for simple, rapid and reliable ultracleaning of small volume samples for the HPLC or GC analysis

- Sterile filtration
- Sample cleaning
- Particle removal
- Easy to handle
- Proven quality
- 100% tested during manufacture

14-555-327

Description	Mfr. No.	Cat. No.	Price
0.2µm; 15mm; Non-sterile; 50/pk; Bulk packed; luer slip outlet	17573----------K	**14-555-292**	139.20
0.2µm; 15mm; Non-sterile; 50/pk; Bulk packed; small spike outlet	17558----------K	**14-555-287**	143.80
0.2µm; 15mm; Sterile; 50pk; Individually packed; luer slip outlet	17573--------ACK	**14-555-291**	403.00
0.45µm; 15mm; Non-sterile; 50/pk; Bulk packed; luer slip outlet	17574----------K	**14-555-294**	139.20
0.45µm; 15mm; Non-sterile; 50/pk; Bulk packed; small spike oulet	17559----------K	**14-555-289**	143.80
0.2µm; 25mm; Non-sterile; 50/pk; Bulk packed; luer slip outlet	17575----------K	**14-555-297**	157.80
0.2µm; 25mm; Sterile; 50/pk; Individually packed; luer slip outlet	17575--------ACK	**14-555-296**	174.00
0.45µm; 25mm; Non-sterile; 50/pk; Bulk packed; luer slip outlet	17576----------K	**14-555-299**	157.80
0.45µm; 4mm; Non-sterile; 50/pk; Bulk packed; luer slip outlet	17820----------K	**14-555-327**	76.60

Bulk pack sizes are available.

Sartorius™ Minisart™ RC Syringe Filters

For rapid small volume particle removal filtration with maximum user convinience

- Sample cleaning
- Particle removal
- Easy to use
- Proven quality
- 100 % tested during manufacture

14-555-329

Description	Mfr. No.	Cat. No.	Price
0.2µm; Non-sterile; 50/pk; 15mm; Bulk packed; luer slip outlet	17761----------K	**14-555-312**	112.20
0.2µm; Sterile; 50/pk; 15mm; Individually packed; luer slip outlet	17761--------ACK	**14-555-311**	123.70
0.45µm; Non-sterile; 50/pk; 15mm; Bulk packed; luer slip outlet	17762----------K	**14-555-315**	112.20
0.2µm; Non-sterile; 50/pk; 25mm; Bulk packed; luer slip outlet	17764----------K	**14-555-318**	123.70
0.2µm; Sterile; 50/pk; 25mm; Individually packed; luer slip outlet	17764--------ACK	**14-555-317**	137.40
0.45µm; Non-sterile; 50/pk; 25mm; Bulk packed; luer slip outlet	17765----------K	**14-555-321**	123.70
0.45µm; Sterile; 50/pk; 25mm; I ndividually packed; luer slip outlet	17765--------ACK	**14-555-320**	135.10
0.2µm; Non-sterile; 50/pk; 4mm; Bulk packed; luer slip outlet	17821----------K	**14-555-329**	75.60
0.45µm; Non-sterile; 50/pk; 4mm; Bulk packed; luer slip outlet	17822----------K	**14-555-331**	75.70

Sartorius™ Minisart™ GF Syringe Filters

For clarification of relatively dirty solutions, or used as a prefilter for other syringe filters

14-555-335

Description	Mfr. No.	Cat. No.	Price
Glass Fiber; Non-Sterile; Bulk packed; 1000/pk	17824----------R	**14-555-337**	1072.26
Glass Fiber; Non-Sterile; Bulk packed; 50/pk	17824----------K	**14-555-335**	86.20
Glass Fiber; Non-Sterile; Bulk packed; 500/pk	17824----------Q	**14-555-336**	700.50

Syringeless Filters

Whatman™ Mini-UniPrep™ Syringeless Filters: Standard Filters

Quick and easy to use — process sample load in one-third the time

Self-contained, preassembled filtration devices for removing particulates from smaller sample volumes. These single, disposable units replace syringe-coupled filtration devices for less lab waste and greater overall cost savings per test.

- Available with amber colorant for light-sensitive samples
- Increase lab productivity and efficiency by processing samples in one-third the time of conventional syringe filters
- Consist of a 0.4mL capacity chamber and plunger with filtration membrane at one end and a preattached cap/septum at the other
- Can be used either manually or with compressor
- Designed to fit into any autosampler that accommodates 12 × 32mm vials, or pierce septum with needle to draw sample off for manual injection into an analyzer

NOTES:
Do not overfill filter unit or compress the device at an angle before the airtight seal is made. Liquid could escape from air vent hole, resulting in sample loss or personal injury.

Standard Mini-Uniprep Filters

Material	Description	Packaging Quantity	Mfr. No.	Cat. No.	Pack of
Pore Size: 0.2µm					
Nylon (NYL)	Std. cap w/translucent housing	100/Pk.	UN203NPENYL	**09-923-101**	100/380.50
Nylon (NYL)	Std. cap w/translucent housing	1000/Pk.	UN503NPENYL	**09-923-106**	1000/2950.00
Polypropylene (PP)	Slit septum cap w/translucent housing	100/Pk.	US203NPEPP	**09-923-114**	100/448.00
Polytetrafluoroethylene (PTFE)	Std. cap w/translucent housing	100/Pk.	UN203NPEORG	**09-923-102**	100/375.00
Polytetrafluoroethylene (PTFE)	Std. cap w/translucent housing	1000/Pk.	UN503NPEORG	**09-923-107**	1000/2900.00
PVDF	Std. cap w/translucent housing	100/Pk.	UN203NPEAQU	**09-923-100**	100/361.50
PVDF	Std. cap w/translucent housing	1000/Pk.	UN503NPEAQU	**09-923-105**	1000/2900.00
Pore Size: 0.45µm					
dpPP	Std. cap w/translucent housing	100/Pk.	UN203NPUDPP	**09-923-26**	100/356.00
Glass Microfiber (GMF)	Std. cap w/translucent housing	100/Pk.	UN203NPUGMF	**09-923-27**	100/357.50
Glass Microfiber (GMF)	Std. cap w/translucent housing	1000/Pk.	UN503NPUGMF	**09-923-34**	1000/2790.00
Nylon (NYL)	Std. cap w/translucent housing	100/Pk.	UN203NPUNYL	**09-923-29**	100/350.50
Nylon (NYL)	Std. cap w/translucent housing	1000/Pk.	UN503NPUNYL	**09-923-36**	1000/2790.00
Polyethersulfone (PES)	Std. cap w/translucent housing	100/Pk.	UN203NPUPES	**09-923-30**	100/363.00
Polypropylene (PP)	Std. cap w/translucent housing	100/Pk.	UN203NPUPP	**09-923-31**	100/363.00
Polypropylene (PP)	Std. cap w/translucent housing	1000/Pk.	UN503NPUPP	**09-923-38**	1000/2790.00
Polytetrafluoroethylene (PTFE)	Std. cap w/translucent housing	100/Pk.	UN203NPUORG	**09-923-28**	100/348.00
Polytetrafluoroethylene (PTFE)	Std. cap w/translucent housing	1000/Pk.	UN503NPUORG	**09-923-35**	1000/2760.00
PVDF	Std. cap w/translucent housing	100/Pk.	UN203NPUAQU	**09-923-25**	100/350.50
PVDF	Std. cap w/translucent housing	1000/Pk.	UN503NPUAQU	**09-923-32**	1000/2840.00

Whatman™ Mini-UniPrep™ Syringeless Filters with Preslit Septa

Provide a faster and easier way to remove particulates from samples being prepared for HPLC/Ultra High Performance Liquid Chromatography (UHPLC) analysis

Eliminate coring problems associated with repeated automated sampling. Available in standard translucent. Use with standard robotics on HPLC instruments with sensitive needles, allowing for higher throughput.

- For high-throughput automation
- Slit septum cap enables Mini-UniPrep use with current robotics on HPLC instruments for high throughput automation
- Durable yet flexible slit septum cap has been specially designed for instruments with sensitive sampling needs
- Sample evaporation is minimal
- Increase lab productivity and efficiency by processing samples in one-third the time of conventional syringe filters
- Consist of a 0.5mL capacity chamber and plunger with filtration membrane at one end and a preattached cap/septum at the other
- Designed to fit into any autosampler that accommodates 12 × 32mm vials, or pierce septum with needle to draw sample off for manual injection into an analyzer

Nylon (NYL)

- Sample type: inherently hydrophilic, aqueous/organic samples in 3 to 10 pH range

Polytetrafluoroethylene (PTFE)

- Sample type: hydrophobic, for samples >50% organic solvents, chemically aggressive solutions

Polyvinylidene Difluoride (PVDF)

- Sample type: aqueous/≤60% organic solvents-low non specific protein binding media

ORDERING INFORMATION:
Filters are also available with a flared cap to enable trouble-free operation with Shimadzu™ autosamplers.

NOTES:
Do not overfill filter unit or compress the device at an angle before the airtight seal is made. Liquid could escape from air vent hole, resulting in sample loss or personal injury.

Multi-sample compressor can process up to six samples at one time, further improving sample processing time.

Material	Pore Size	Mfr. No.	Cat. No.	Pack of
PVDF	0.2µm	US203NPEAQU	**09-923-110**	100/446.00
Nylon (NYL)	0.2µm	US203NPENYL	**09-923-111**	100/447.50
Nylon (NYL)	0.45µm	US203NPUNYL	**09-923-118**	100/446.00
Polytetrafluoroethylene (PTFE)	0.2µm	US203NPEORG	**09-923-112**	100/446.00
Polytetrafluoroethylene (PTFE)	0.45µm	US203NPUORG	**09-923-119**	100/446.00
PES	0.45µm	US203NPUPES	**09 923 120**	100/455.47
Nylon	0.2µm	US503NPENYL	**09 923 123**	1000/3460.00
PP	0.2µm	US503NPEPP	**09 923 126**	1000/ 3330.00
PVDF	0.45µm	US503NPUAQU	**09 923 127**	1000/3270.00
Nylon	0.45µm	US503NPUNYL	**09 923 130**	1000/3400.00
PES	0.45µm	US503NPUPES	**09 923 132**	1000/3330.00

Whatman™ UniPrep™ Syringeless Filters

Process samples in one-third the time of conventional syringe filters

Preassembled filtration devices for the filtration and storage of laboratory samples.

- Consist of external sample test tube, plunger (which incorporates membrane filter and prefilter) and removable cap
- Filtration area: 0.3cm^2
- Safe, efficient — prefilter and membrane can't pop off
- Air purge unnecessary — inserting plunger into tube provides a positive pressure purge of sample through filter
- Sealed glass microfiber prefilter traps larger particles before they can clog the membrane

Glass microfiber (GMF)

- Layered glass microfiber depth filter for use with samples containing aqueous or organic solvents (indicated pore size is the particle retention rating)

Nylon (NYL)

- Naturally hydrophilic membrane for filtration of samples containing aqueous or organic solvents with a pH range between 3 to 10
- Polytetrafluorethylene (PTFE)
- Chemically inert PTFE membrane for filtration of samples containing >50% organic solvent
- Polyvinylidene fluoride (PVDF)
- Low protein binding membrane for filtration of samples with aqueous or aqueous/organic solvent composition

Uniprep Syringeless Filters

Material	Pore Size	Mfr. No.	Cat. No.	Pack of
PVDF	0.45µm	UN113UAQU	**09-923-1**	100/275.50
Glass Microfiber (GMF)	0.45µm	UN113UGMF	**09-923-10**	100/253.57
Polytetrafluoroethylene (PTFE)	0.45µm	UN513UORG	**09-923-11**	1000/3910.00
PVDF	0.2µm	UN113EAQU	**09-923-2**	100/252.50
Polytetrafluoroethylene (PTFE)	0.45µm	UN113UORG	**09-923-4**	100/262.00
Polytetrafluoroethylene (PTFE)	0.2µm	UN113EORG	**09-923-5**	100/264.00
Nylon (NYL)	0.45µm	UN113UNYL	**09-923-7**	100/264.00
Nylon (NYL)	0.2µm	UN113ENYL	**09-923-8**	100/268.00
PTFE	0.2µm	UN513EORG	**09 927 650**	1000/3520.00
Nylon	0.45µm	UN513UNYL	**09 923 9A**	1000/3970.00

Whatman™ Glass Mini-UniPrep™ G2 Syringeless Filters

Get advanced HPLC/UHPLC filter efficiency with the purity of glass

These all-in-one filters replace syringe filters, and speed up and simplify UHPLC/HPLC sample preparation. They provide a fast and easy way to remove particulates from samples being prepared for Ultra High Performance Liquid Chromatography (UHPLC)/High Performance Liquid Chromatography (HPLC) analysis. Due to the design of this next generation product, the filtered sample is stored within an integral borosilicate glass vial, minimizing the risk of leachables contaminating the sample. Standardizing UHPLC/HPLC sample preparation with Mini-UniPrep G2 ensures that every sample is filtered prior to analysis, and hence minimizes instrument downtime due to unfiltered samples. The time and money saved from cutting multiple consumables out of the sample preparation process provides immediate benefits for your laboratory.

- Consist of an integral borosilicate glass autosampler vial, plunger with attached filter membrane and septum/cap
- Allow you prepare samples faster compared to the syringe filter method
- Glass construction minimizes the risk of leachables contaminating the sample
- Designed to be loaded directly into the autosampler
- Visual indication that the sample has been filtered; minimizes instrument downtime due to unfiltered samples
- Wide range of membranes with 0.2 and 0.45µm pore sizes to meet specific sample filtration requirements
- Available in a range of membranes, slit septum and amber versions (for light-sensitive samples)
- Sold in packs of 100, with or without a hand compressor and packs of 1000 vials

Whatman Glass Mini-UniPrep G2 Syringeless Filter

Membrane	Pore Size	With Hand Compressor	Mfr. No.	Cat. No.	Pack of
Standard Cap with Translucent Housing					
PTFE	0.2µm	No	GN203NPEORG	**09-924-455**	100/342.50
PTFE	0.2µm	Yes	GN203NPEORGSP	**09-924-456**	100/353.00
PTFE	0.45µm	No	GN203NPUORG	**09-924-457**	100/342.50
PTFE	0.45µm	Yes	GN203NPUORGSP	**09-924-458**	100/353.00
PTFE	0.2µm	No	GN503NPEORG	**09-924-503**	1000/2550.00
PTFE	0.45µm	No	GN503NPUORG	**09-924-527**	1000/2600.00
PVDF	0.2µm	No	GN203NPEAQU	**09-924-459**	100/327.61
PVDF	0.2µm	Yes	GN203NPEAQUSP	**09-924-460**	100/337.64
PVDF	0.45µm	No	GN203NPUAQU	**09-924-461**	100/327.61
PVDF	0.45µm	Yes	GN203NPUAQUSP	**09-924-462**	100/337.64
PVDF	0.45µm	No	GN503NPUAQU	**09-924-506**	1000/2550.00
RC	0.45µm	No	GN203NPURC	**09-924-494**	100/286.00
RC	0.45µm	Yes	GN203NPURCSP	**09-924-495**	100/294.00
RC	0.2µm	No	GN203NPERC	**09-924-498**	100/286.00
RC	0.2µm	Yes	GN203NPERCSP	**09-924-499**	100/294.00
RC	0.2µm	No	GN503NPERC	**09-924-505**	1000/2550.00
RC	0.45µm	No	GN503NPURC	**09-924-508**	1000/2550.00
Nylon	0.2µm	Yes	GN203NPENYLSP	**09-924-463**	100/353.00
Polypropylene	0.2µm	No	GN203NPEPP	**09-924-464**	100/327.61
Polypropylene	0.2µm	Yes	GN203NPEPPSP	**09-924-465**	100/337.64
GMF	0.45µm	No	GN203NPUGMF	**09-924-493**	100/286.00
GMF	0.45µm	Yes	GN203NPUGMFSP	**09-924-500**	100/294.00
PVD	0.2µm	No	GN503NPEAQU	**09-924-501**	1000/2550.00
Nylon	0.2µm	No	GN503NPENYL	**09-924-502**	1000/2550.00
PP	0.2µm	No	GN503NPEPP	**09-924-504**	1000/2550.00
GMF	0.45µm	No	GN503NPUGMF	**09-924-507**	1000/2550.00
Nylon	0.2µm	No	GN203NPENYL	**09-924-519**	100/286.00
Standard Cap with Amber Housing					
PVDF	0.2µm	Yes	GN203APEAQUSP	**09-924-467**	100/375.70
PVDF	0.2µm	No	GN203APEAQU	**09-924-517**	100/294.00
Polypropylene	0.2µm	Yes	GN203APEORGSP	**09-924-466**	100/375.71
PTFE	0.2µm	No	GN203APEORG	**09-924-518**	100/294.00

Whatman™ Glass Mini-UniPrep™ G2 Syringeless Filter; Slit Septum Cap

Get advanced HPLC/UHPLC filter efficiency with the purity of glass

These all-in-one filters replace syringe filters, and speed up and simplify UHPLC/HPLC sample preparation. They provide a fast and easy way to remove particulates from samples being prepared for Ultra High Performance Liquid Chromatography (UHPLC)/High Performance Liquid Chromatography (HPLC) analysis. Due to the design of this next generation product, the filtered sample is stored within an integral borosilicate glass vial, minimizing the risk of leachables contaminating the sample. Standardizing UHPLC/HPLC sample preparation with Mini-UniPrep G2 ensures that every sample is filtered prior to analysis, and hence minimizes instrument downtime due to unfiltered samples. The time and money saved from cutting multiple consumables out of the sample preparation process provides immediate benefits for your laboratory.

- Consist of an integral borosilicate glass autosampler vial, plunger with attached filter membrane and septum/cap
- Allow you prepare samples three times faster compared to the syringe filter method
- Glass construction the risk of leachables contaminating the sample
- Designed to be loaded directly into the autosampler
- Visual indication that the sample has been filtered; minimizes instrument downtime due to unfiltered samples
- Wide range of membranes with 0.2 and 0.45µm pore sizes to meet specific sample filtration requirements
- Available in a range of membranes, slit septum and amber versions (for light-sensitive samples)
- Sold 100 per pack

Pore Size	Material	With Hand Compressor	Mfr. No.	Cat. No.	Pack of 100
0.2µm	PVDF	Yes	GS203NPEAQUSP	**09-924-521**	303.00
0.2µm	PTFE	Yes	GS203NPEORGSP	**09-924-468**	431.50
0.2µm	PP	Yes	GS203NPEPPSP	**09-924-510**	294.00
0.2µm	Nylon	Yes	GS203NPENYLSP	**09-924-509**	303.00
0.45µm	PVDF	Yes	GS203NPUAQUSP	**09-924-525**	303.00
0.45µm	PTFE	Yes	GS203NPUORGSP	**09-924-469**	412.77
0.2µm	Nylon	No	GS203NPENYL	**09-924-496**	294.00
0.2µm	PVDF	No	GS503NPEAQU	**09-924-512**	2627.00
0.2µm	Nylon	No	GS503NPENYL	**09-924-513**	2626.00
0.2µm	PTFE	No	GS503NPEORG	**09-924-514**	2627.00
0.2µm	PVDF	No	GS203NPEAQU	**09-924-520**	294.00
0.2µm	PTFE	No	GS203NPEORG	**09-924-522**	294.00
0.2µm	PP	No	GS203NPEPP	**09-924-523**	294.00
0.45µm	PVDF	No	GS203NPUAQU	**09-924-524**	294.00
0.45µm	PVDF	No	GS503NPUAQU	**09-924-515**	2627.00
0.45µm	GMF	Yes	GS203NPUGMFSP	**09-924-511**	303.00
0.45µm	GMF	No	GS203NPUGMF	**09-924-497**	294.00
0.45µm	PTFE	No	GS203NPUORG	**09-924-526**	294.00
0.45µm	PTFE	No	GS503NPUORG	**09-924-516**	2627.00

Accessories for Mini-UniPrep Filters

Compressors

- Handheld devices to aid in compression of Mini-UniPrep and Mini-UniPrep G2 filter units
- Especially helpful with viscous or particulate-laden samples

Compressor for Mini-UniPrep Filters

ALERTS:
Multi-sample compressor with six positions (0992713) can only be used with Mini-UniPrep (plastic vial) syringeless filters.

Description	Positions	Mfr. No.	Cat. No.	Each
Hand compressor	One	MUPG2HCPWC1	**09-924-490**	17.09
Multi-sample compressor	Eight	MUPG2MCPWC8	**09-924-491**	290.45

Whatman™ Glass Mini-UniPrep™ G2 Multi-Compressor Tray

Filters up to eight Mini-UniPrep G2 filter vials at one time

09924492

- Speeds up the sample prep process
- Extra trays allow pre-loading of samples
- For use with 8-position multi compressor (09924491)

Description	Mfr. No.	Cat. No.	Each
8-vial tray; White/purple	MUPG2MCWT8	**09924492**	19.50

Whatman™ Autovial™ Syringeless Filters

Faster sample handling, up to 5 or 12mL in volume

Replace syringe-coupled devices with single filter units for one-time use. Often used for removing particulates from potentially hazardous samples. Pour or pipet sample into filter barrel, insert plunger and compress to filter into autosampler vial.

- Preassembled units consist of a filter barrel and a plunger
- Built-in air purge minimizes holdup
- Integrated construction eliminates filter pop-off
- Support stand protects slip-Luer tip, recessed to reduce chance of contamination

Autovial 5 Filters

- Remove particulates from samples up to 5mL in volume
- Filtration area: 1.7cm2

Autovial 12 Filters

- Handle samples up to 12mL in volume
- All have an integral 25mm diameter filter in barrel (graduated in 1mL intervals) with polyethylene plunger
- Filtration area: 3.0cm^2
- Glass microfiber prefilter ensures higher flow with less clogging
- Units with NYL, PTFE and PVDF membranes are available sterile

Cellulose Acetate (CA)

- Low nonspecific protein binding, high loading capacity; for biologicals

Glass Microfiber (GMF)

- High loading capacity, binder-free, fast flowrates; for clarifying aqueous or organic solutions, pH 3 to 8

Nylon (NYL)

- Inherently hydrophilic; for clarifying aqueous and organic samples, pH 3 to 10

Polypropylene (PP)

- For aqueous and organic solutions; ideal for aggressive samples and high debris

Polytetrafluoroethylene (PTFE)

- Hydrophobic; for samples >50% organic solvents

Polyvinylidene Fluoride (PVDF)

- Low protein binding; for aqueous samples

09-921-4C

Membrane Type	Pore Size	Mfr. No.	Cat. No.	Pack of
Autovial 5 Syringeless Filters				
GMF	0.45µm	AV115UGMF	**09-921-20**	50/199.10
NYL	0.45µm	AV115NPUNYL	**09-921-17**	50/195.20
PTFE	0.2µm	AV115NPEORG	**09-921-13**	50/196.20
PTFE	0.45µm	AV115NPUORG	**09-921-18**	50/190.90
PVDF	0.45µm	AV115NPUAQU	**09-921-15**	50/201.50
Autovial 12 Syringeless Filters				
CA	0.45µm	AV125UCA	**09-921-4C**	50/295.50
GMF	0.45µm	AV125UGMF	**09-919**	50/289.00
NYL	0.2µm	AV125SNAO	**09-917C**†	40/314.30
NYL	0.2µm	AV125ENAO	**09-917B**	50/295.50
NYL	0.45µm	AV125UNAO	**09-917A**	50/289.00
PP	0.2µm	AV125EPP	**09-921-6A** ‡	50/301.50
PP	0.45µm	AV125UPP	**09-921-6B** ‡	50/295.50
PTFE	0.2µm	AV125SORG	**09-918C**†	40/314.30
PTFE	0.2µm	AV125EORG	**09-918B**	50/291.00
PTFE	0.45µm	AV125UORG	**09-918A**	50/287.50
PTFE	0.45µm	AV525UORG	**22-042-627**	1000/4790.00
PVDF	0.2µm	AV125SAQU	**09-916C**†	40/314.30
PVDF	0.2µm	AV125EAQU	**09-916B**	50/299.50
PVDF	0.45µm	AV125UAQU	**09-916A**	50/291.00
PVDF	0.45µm	AV525UAQU	**05-713-720**	1000/4220.00

† *Sterile*
‡ *PP Prefilter*

Tangential Flow

EMD Millipore™ Labscale™ TFF System

Easy to use for sample preparation

Complete linear, scalable solution for small-volume processing designed specifically to use the Pellicon™ XL Device for simple sample prep and more complex scale-up work.

ORDERING INFORMATION: Individual components are also available for a custom small-volume TFF system. Pellicon XL devices sold separately.

INCLUDES: Graduated 500mL acrylic reservoir with retentate back pressure valve, feed and retentate pressure indicators; stirrer assembly; diaphragm pump assembly with tubing and power supply

XX42LSS11

Specifications	
Max. Pump Outlet Pressure	85psig (5.86 bar)
Feed Flowrate	10 to 100mL/min.
Min. Recirculation Volume	15mL
Operating Temp. Range	4° to 45°C (39.2° to 113°F)
L × W × H	$8^1/_2$ × 11 × 18" (21.6 × 27.9 × 45.7cm)
Net Weight	13 lb. (5.9kg)
Electrical Reqts.	115V 60Hz

Description	Cat. No.	Each
Labscale TFF System Kit, 115V	**XX42LSS11**	6570.00
Components		
Reservoir, 500mL	**XX42RES01**	3510.00
Peristaltic Pump Drive, 115V, Variable speed, 60 to 600rpm	**XX8200115**	1217.88

Ultrafiltration/Stirred Cells

EMD Millipore™ Amicon™ Bioseparations Stirred Cells†

Concentrate, desalt and purify aqueous biological solutions

Process from 3mL up to 400mL of biological solutions using either concentration or diafiltration operating modes.

- Sturdy construction; autoclavable
- Consist of clear pressurized vessel with integral magnetic stirring bar, nylon cap and tube fitting assembly, polysulfone body and membrane holder, acetal/polysulfone stirrer, silicone O-rings and black aluminum stand

Concentration Mode

- Gas pressure is applied directly to ultrafiltration cell
- Solutes above membrane molecular weight cutoff are retained in cell, while water and solutes below cutoff pass into filtrate

Diafiltration Mode

- Ultrafiltration cell is connected to auxiliary reservoir containing diafiltrate solution; reservoir is then gas pressurized
- Fluid volume and macrosolute concentration remain constant as filtrate is replaced by diafiltrate solution
- Provides a simple means for rapid microsolute exchange
- Typically used as a substitute for dialysis

APPLICATIONS:
Perform concentration, desalting, recovery or exclusion; Recover monoclonal antibodies and growth factors from tissue culture supernatants; Concentration and buffer exchange of chromatography fractions

5123

ORDERING INFORMATION: Use with Millipore Ultrafiltration Membranes.

INCLUDES: Connection for 0.25" dia. (6.4mm) pressure tubing; max. operating pressure, 75psi (5.3 bar).

REQUIRES: Magnetic stirrer required for operation.

		Concentration[1]		Process Volume							
Cell Model No.	Filter Dia.	Minimum Initial	Maximum Final	Minimum[2]	Maximum[3]	Filtrate Holdup Volume[4]	Membrane Filtration Area[5]	Housing L × W × H	Mfr. No.	Cat. No.	Each
8003	25mm	0.05g%	10g%	0.075mL	3mL	70µL	0.9cm²	2.38 × 2.38 × 3" (6 × 6 × 7.7cm)	5125	**5125**	864.00
8010	25mm	0.05g%	10g%	1.0mL	10mL	200µL	4.1cm²	2.38 × 2.38 × 3" (6 × 6 × 7.7cm)	5121	**5121**	864.00
8050	44.5mm[6]	0.05g%	10g%	2.5mL	50mL	500µL	13.4cm²	2.75 × 2.75 × 3.88" (7 × 7 × 9.8cm)	5122	**5122**	958.00
8200	63.5mm[7]	0.05g%	10g%	5.0mL	200mL	1200µL	28.7cm²	3.5 × 3.5 × 5" (9 × 9 × 12.8cm)	5123	**5123**	1204.00
8400	76mm	0.05g%	10g%	10.0mL	400mL	1500µL	41.8cm²	4.33 × 4.33 × 6" (11 × 11 × 15.5cm)	5124	**5124**	1606.00

†An Amicon™ Bioseparations product.
[1]Practical limits; concentration limits can be extended in certain instances.
[2]Operation beyond this volume limit is not recommended.
[3]Practical limits; dependent on additional reservoir capacity and application.
[4]Volume with 2" (5cm) of tubing on outlet.
[5]At 1 cps, maximum transmembrane pressure and maximum differential pressure. Approximate value.
[6]43mm nominal diameter.
[7]62mm nominal diameter.

EMD Millipore™ Ultrafiltration Membranes

High-recovery membranes for stirred cells

Available in a variety of membrane types: Amicon™ YM for high recovery; Biomax™ PB and Amicon PM for high flow; choose from several diameters (14 to 150mm) and a range of Nominal Molecular Weight Limits (1000 to 500,000 NMWL).

Ultrafiltration Membranes

Ultracel™ Amicon YM

- Regenerated cellulose membranes
- For concentration of hydrophobic samples or to desalt extremely dilute solutions
- Hydrophilic, tight microstructure assures high retention with low adsorption of protein, DNA or other macromolecules

Biomax PB and Amicon PM

- High-flow, polyethersulfone (PES) membranes
- Use to concentrate faster or to concentrate and desalt more concentrated samples
- Open microstructure provides extremely fast separation capability
- Recommended for serum, plasma or conditioned tissue culture media samples

Ultracel Amicon YM

Membrane Filter Disc	Amicon YM10		Amicon YM100	
NMWL	10,000		100,000	
Diameter	Cat. No.	Pack of	Cat. No.	Pack of
25mm	**13612**	10/125.70	----	----
44.5mm†	**13622**	10/220.00	**14422AM**	10/219.50
63.5mm‡	**13632**	10/267.50	**14432**	10/267.00
76mm	**13642**	10/285.00	**14442AM**	10/285.00
150mm	**13661AM**	5/374.00	----	----

BioMax PB

Membrane Filter Disc		Biomax PBTK	
NMWL		30,000	
Diameter	Membrane Area	Cat. No.	Pack of
44.5mm†	13.4cm²	**PBTK 043 10**	10/271.00
63.5mm‡	28.7cm²	**PBTK 062 10**	10/268.50

†43mm nominal diameter
‡62mm nominal diameter

BioMax PB and Amicon PM

Membrane Filter Disc		Biomax PBMK		Amicon PM30	
NMWL		300,000		30,000	
Diameter	Membrane Area	Cat. No.	Pack of	Cat. No.	Pack of
63.5mm‡	28.7cm²	**PBMK 062 10**	10/205.50	----	----
76mm	41.8cm²	**PBMK 076 10**	10/220.50	**13242**	10/271.39
150mm	144cm²	**PBMK 150 05**	5/255.50	----	----

Unique Applications

Whatman™ 1PS Disposable Phase Separating Papers

High-purity paper impregnated with stable silicone

Passes organic solvent phases lighter or heavier than water but retains water phase.

- Hydrophobic
- Use folded in conical funnel
- Disposable
- Eliminate need for washing and drying separatory funnels, cross-contamination

09-874-50

ORDERING INFORMATION:
In 9 to 24cm diameter circles.

Diameter	Mfr. No.	Cat. No.	Pack of 100
9.0cm	2200-090	**09-874-50**	52.60
11.0cm	2200-110	**09-874-52**	65.40
12.5cm	2200-125	**09-874-54**	81.20
15.0cm	2200-150	**09-874-56**	108.50
18.5cm	2200-185	**09-874-91**	166.40
24.0cm	2200-240	**09-874-92**	291.50

Whatman™ 934-AH RTU Glass Microfiber Filters

Fast and convenient

The most widely used filter for Total Suspended Solids Analysis is now available in a time-saving, Ready-To-Use (RTU) format. It contains the trusted binder-free, high purity borosilicate glass microfiber filter mentioned in Standard Methods.

- Use the pre-washed, pre-weighed filter immediately — no need to pre-treat
- Each RTU filter is packaged within an aluminum pan with the filter weight clearly printed on a heat-resistant label
- Efficient: superior fine particle retention at high flowrates
- High loading capacity: capable of processing very turbid samples
- High temperature tolerant: can be used with temperatures up to 550°C

COMPLIANCE: The 934-AH RTU meets the requirements under the latest edition of Standard Methods 2540D for determining total suspended solids in water.

Dimensions	Mfr. No.	Cat. No.	Case of 100
42.5mm	9907-042	**09-924-450**	134.00
47mm	9907-047	**09-924-451**	95.40
55mm	9907-055	**09-924-452**	123.50

Before You Buy PYREX® Glassware Solutions for Chemistry

PYREX
A Corning Brand

PRODUCTS TO LOOK FOR

- **Mix/Heat** — Erlenmeyer flasks and beakers
- **Storage** — Media bottles
- **Measure** — Graduated cylinders, volumetric flasks, and pipets
- **Filtration** — Filter systems and flasks
- **Extraction/Concentration** — Soxhlet, liquid-liquid extractors and Corning® Accelerated One-Step extractor

QUALITY, CONSISTENCY AND RELIABILITY SINCE 1915

Corning has been a valued supplier to laboratories since the introduction of PYREX low-expansion borosilicate glass. It is the quality standard for chemistry labs worldwide because of its clarity, strength, heat and chemical resistance. With our vast portfolio of glassware products, Corning provides you with a complete solution right from the start.

For detailed product information and downloads for application notes and product selection guides, please visit **www.fishersci.com/corningchemistrysolutions.**

Flasks

Boiling-Round Bottom

Fisherbrand® Reusable Glass Round-Bottom Boiling Flasks with Ŧ Joint

Feature full length 24/40 Ŧ joint

- Accept 4195R stopper

COMPLIANCE:
Designed from ASTM™ Specification E 1403, Type II, Class 3 requirements.

Capacity	Height	Outside Dia.	Cat. No.	Pack of	Case of
3.38 oz. (100mL)	4.52" (115mm)	2.48" (63mm)	**FB-201-100**	2/68.30	6 Pk./323.00
8.45 oz. (250mL)	5.51" (140mm)	3.26" (83mm)	**FB-201-250**	2/71.50	6 Pk./337.50
16.90 oz.(500mL)	6.29" (160mm)	4.01" (102mm)	**FB-201-500**	2/78.70	6 Pk./371.50
33.8 oz. (1000mL)	7.48" (190mm)	5.11" (130mm)	**FB-201-1000**	2/89.40	6 Pk./422.50

Kimble-Chase Kimax™ Flasks with Ŧ Joints

Short Necks

- Round bottoms

COMPLIANCE:
Designed from ASTM™ E 1403, Type II, Class 3 requirements.

11-301-54C

Capacity	Ŧ Joint No.	Mfr. No.	Cat. No.	Pack of	Case of 6 Pk.
1.69 oz. (50mL)	24/40	25285 50	**10-067-2AA**	2/93.10	413.50
3.38 oz. (100mL)	14/20	25276 100	**10-060-100E**	2/96.78	423.65
3.38 oz. (100mL)	19/22	25277 100	**11-301-54C**	2/88.99	389.90
3.38 oz. (100mL)	24/40	25285 100	**10-067-2B**	2/81.41	356.68
6.76 oz. (200mL)	24/40	25285 200	**10-067-2C**	2/128.90	572.50
8.45 oz. (250mL)	14/20	25276 250	**10-060-100F**	2/156.69	686.36
8.45 oz. (250mL)	19/22	25277 250	**11-301-54D**	2/118.37	518.14
8.45 oz. (250mL)	24/40	25285 250	**10-067-2D**	2/85.15	373.29
10.1 oz. (300mL)	24/40	25285 300	**10-067-2E**	2/131.50	584.00
16.9 oz. (500mL)	19/22	25277 500	**11-301-54E**	2/147.65	646.38
16.9 oz. (500mL)	24/40	25285 500	**10-067-2F**	2/93.56	410.15
33.8 oz. (1000mL)	24/40	25285 1000	**10-067-2G**	2/106.43	466.22
67.6 oz. (2000mL)	24/40	25285 2000	**10-067-2H**	1/98.40	442.00
101.4 oz. (3000mL)	24/40	25285 3000	**10-067-2J**	1/195.20	836.50

Kimble-Chase Kontes™ Flasks with Ŧ Necks

Single neck

- Round bottom

K601000-0524

Capacity	Ŧ Joint No.	Approximate Diameter	Mfr. No.	Cat. No.	Each
0.169 oz. (5mL)	14/20	0.98" (25mm)	294000-0005	**K294000-0005**	27.10
0.169 oz. (5mL)	19/22	0.98" (25mm)	294010-0005	**K294010-0005**	27.20
0.338 oz. (10mL)	14/20	1.22" (31mm)	294000-0010	**K294000-0010**	35.10
0.338 oz. (10mL)	19/22	1.22" (31mm)	294010-0010	**K294010-0010**	27.20
0.507 oz. (15mL)	14/20	1.37" (35mm)	294000-0015	**K294000-0015**	31.40
0.507 oz. (15mL)	19/22	1.37" (35mm)	294010-0015	**K294010-0015**	27.25
0.845 oz. (25mL)	14/20	1.65" (42mm)	294000 0025	**K294000-0025**	27.10
0.845 oz. (25mL)	19/22	1.65" (42mm)	294010-0025	**K294010-0025**	30.40
1.18 oz. (35mL)	14/20	1.77" (45mm)	294000-0035	**K294000-0035**	27.10
1.69 oz. (50mL)	14/20	1.88" (48mm)	294000-0050	**K294000-0050**	30.35
1.69 oz. (50mL)	19/22	1.88" (48mm)	294010-0050	**K294010-0050**	27.10
1.69 oz. (50mL)	24/40	1.88" (48mm)	601000-0124	**K601000-0124**	35.85
3.38 oz. (100mL)	14/20	2.36" (60mm)	294000-0100	**K294000-0100**	26.95
3.38 oz. (100mL)	19/22	2.36" (60mm)	294010-0100	**K294010-0100**	27.25
3.38 oz. (100mL)	24/40	2.36" (60mm)	601000-0224	**K601000-0224**	38.10
3.38 oz. (100mL)	29/42	2.36" (60mm)	601000-0229	**K601000-0229**	27.60
8.45 oz. (250mL)	14/20	3.26" (83mm)	294000-0250	**K294000-0250**	27.60
8.45 oz. (250mL)	19/22	3.26" (83mm)	294010-0250	**K294010-0250**	33.38
8.45 oz. (250mL)	24/40	3.26" (83mm)	601000-0424	**K601000-0424**	37.20
8.45 oz. (250mL)	29/42	3.26" (83mm)	601000-0429	**K601000-0429**	40.60
10.144 oz. (300mL)	24/40	3.42" (87mm)	601000-0524	**K601000-0524**	40.65
16.9 oz. (500mL)	14/20	4.01" (102mm)	294000-0500	**K294000-0500**	37.95
16.9 oz. (500mL)	19/22	4.01" (102mm)	294010-0500	**K294010-0500**	38.50
16.9 oz. (500mL)	24/40	4.01" (102mm)	601000-0624	**K601000-0624**	38.65
33.8 oz. (1000mL)	24/40	5.11" (130mm)	601000-0724	**K601000-0724**	47.95
67.62 oz. (2000mL)	24/40	6.33" (161mm)	601000-0824	**K601000-0824**	90.50
101.44 oz. (3000mL)	24/40	7.28" (185mm)	601000-0924	**K601000-0924**	106.40
101.44 oz. (3000mL)	45/50	7.28" (185mm)	601000-0945	**K601000-0945**	141.90
169.07 oz. (5000mL)	24/40	8.70" (221mm)	601000-1024	**K601000-1024**	149.50

Pyrex™ Brand Flasks with Ŧ Joints, Short Necks, Round Bottom

Excellent chemical durability for contamination-free results

- Full length outer joints, both with shorter necks
- Carefully controlled wall thicknesses provide the proper balance between thermal expansion and mechanical strength
- Adapter Nos. 8800, 8820 and 8825 are used to connect flasks with different size joints

ORDERING INFORMATION:
Manufactured from No. 7740 borosilicate glass.
Normal working temperature, 230°C.

10-067E

Capacity	Ŧ Joint No.	Mfr. No.	Cat. No.	Pack of	Case of
0.845 oz. (25mL)	14/20	4321A 25	**10-060-4A**	----	1/33.75
0.845 oz. (25mL)	19/22	4320B 25	**10-067AA**	----	1/33.75
1.69 oz. (50mL)	14/20	4321A 50	**10-060-4B**	----	1/37.50
1.69 oz. (50mL)	19/22	4320B 50	**10-067BB**	----	1/37.70
1.69 oz. (50mL)	19/38	4320 50	**10-067A**	----	12/525.36
1.69 oz. (50mL)	24/40	4320A 50	**10067B**	1/46.15	12/362.50
3.38 oz. (100mL)	14/20	4321A 100	**10-060-4C**	----	12/435.50
3.38 oz. (100mL)	19/22	4320B 100	**10-067CC**	----	12/400.50
3.38 oz. (100mL)	24/40	4320 100	**10-067C**	2/79.70	6/347.00
3.38 oz. (100mL)	29/42	4321 100	**10-067R**	----	1/45.20
8.45 oz. (250mL)	14/20	4321A 250	**10-060-4D**	----	1/55.20
8.45 oz. (250mL)	19/22	4320B 250	**10-067DD**	----	1/44.40
8.45 oz. (250mL)	24/40	4320 250	**10-067E**	2/85.40	6/380.00
8.45 oz. (250mL)	29/42	4321 250	**10-067S**	1/46.45	----
16.9 oz. (500mL)	14/20	4321A 500	**10-060-4E**	----	1/60.00
16.9 oz. (500mL)	19/22	4320B 500	**10-067FF**	----	1/52.20
16.9 oz. (500mL)	24/40	4320 500	**10-067G**	2/92.80	6/414.00
16.9 oz. (500mL)	29/42	4321 500	**10-067T**	----	1/51.60
33.8 oz. (1000mL)	24/40	4320 1L	**10067H**	1/57.40	12/484.00
33.8 oz. (1000mL)	29/42	4321 1L	**10-067J**	----	1/54.20
67.6 oz. (2000mL)	24/40	4320 2L	**10-067K**	1/94.40	6/398.50
67.6 oz. (2000mL)	29/42	4321 2L	**10-067L**	----	1/98.30
169 oz. (5000mL)	45/50	4320 5L	**10-067P**	----	4/936.50

Pyrex™ Brand Flasks with Short Ring Necks

Sometimes called "balloon flasks"

- Round bottoms
- Without rubber stopper

10-065B

Capacity	Stopper No.	Mfr. No.	Cat. No.	Each	Case of
250mL	5	4260 250	**10-065A**	22.40	----
500mL	6	4260 500	**10-065B**	28.35	----
1000mL	8	4260 1L	**10-065C**	----	12/359.50
2000mL	10	4260 2L	**10-065D**	79.20	18/992.00
3000mL	10	4260 3L	**10-065E**	95.70	----
5000mL	11	4260 5L	**10-065F**	200.50	6/894.50
12,000mL	11	4260 12L	**10-065G**	257.50	----
22,000mL	14	4260 22L	**10-065H**	460.00	----

Boiling-Flat Bottom

Fisherbrand® Reusable Glass Flat-Bottom Boiling Flasks with Ŧ

Rugged short Ŧ neck

- Feature short 24/40 Ŧ

COMPLIANCE:
Designed from ASTM™ Specification E 1403, Type I, Class 4 requirements.

FB-200-125

Capacity	Outside Dia.	Height	Cat. No.	Each	Case of
4.22 oz. (125mL)	2.55" (65mm)	4.52" (115mm)	**FB-200-125**	37.95	12/353.00
8.45 oz. (250mL)	3.26" (83mm)	5.23" (133mm)	**FB-200-250**	37.55	12/349.50
16.9 oz. (500mL)	4.01" (102mm)	6.1" (155mm)	**FB-200-500**	41.80	12/389.00

GENERATE REPRODUCIBLE, RELIABLE RESULTS... EVERY TIME

Results count in chemistry, and you can count on Fisher Scientific for:

- Choice of brands from hundreds of trusted manufacturers… ensuring your work is always of the highest quality
- Convenient, one-source access to thousands of items… letting you focus on your work, not paperwork
- Easy ordering and expedient delivery…assuring you get what you need when you need it
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- Services that can streamline your business processes … reducing your operating costs
- Laboratory safety and personal protection equipment to minimize the risk of work injury

Count on Fisher Scientific for all of the consumables, instruments, equipment and supplies you need to produce consistent results.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Pyrex™ Brand Flat Bottom Flasks with Ŧ Joints

Long Necks

- Full-length outer Ŧ 24/40 joints

10-044A

Capacity	Mfr. No.	Cat. No.	Case of 12
8.45 oz. (250mL)	4080 250	**10-044A**	489.50
16.09 oz. (500mL)	4080 500	**10-044B**	543.50

Pyrex™ Brand Flat Bottom Flasks with Long Necks

Usual globe-shaped Florence boiling flasks

- Tooled mouths
- Covers for 500, 1000 and 2000mL sizes
- 12,000mL size has a short neck

10-035E

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
1.69 oz. (50mL)	1	4060 50	**10-035A**	1/12.39
4.22 oz. (125mL)	2	4060 125	**10-035B**	24/263.50
8.45 oz. (250mL)	5	4060 250	**10-035C**	24/265.00
16.9 oz. (500mL)	6	4060 500	**10-035E**	24/362.00
33.8 oz. (1000mL)	8	4060 1L	**10-035F**	6/114.10
67.6 oz. (2000mL)	8	4060 2L	**10-035G**	1/51.10
202.88 oz. (6000mL)	11	4060 6L	**10-035J**	1/138.60
405.77 oz. (12,000mL)	11	4060 12L	**10-035K**	1/255.50

Boiling-Pear Shaped

Kimble-Chase Kontes™ Pear-Shaped Flasks

- Single-neck flasks with Ŧ outer joints

K294260-0100

Capacity	Ŧ Joint No.	Cat. No.	Each
5mL	14/20	**K294250-0005**	35.15
5mL	19/22	**K294260-0005**	18.13
10mL	14/20	**K294250-0010**	35.15
10mL	19/22	**K294260-0010**	35.20
15mL	14/20	**K294250-0015**	35.15
15mL	19/22	**K294260-0015**	35.05
25mL	14/20	**K294250-0025**	35.15
25mL	19/22	**K294260-0025**	35.35
35mL	14/20	**K294250-0035**	35.15
50mL	14/20	**K294250-0050**	35.15
50mL	19/22	**K294260-0050**	35.70
50mL	24/40	**K608700-0124**	42.90
75mL	14/20	**K294250-0075**	35.15
100mL	14/20	**K294250-0100**	59.10
100mL	19/22	**K294260-0100**	36.65
100mL	24/40	**K608700-0224**	45.25
200mL	24/40	**K608700-0424**	54.10
300mL	24/40	**K608700-0524**	58.10
500mL	24/40	**K608700-0624**	62.20

Pyrex™ Brand Pear-Shaped Flasks

With a single Ŧ outer joint

10-060-11C

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
Ŧ Joint 14/20				
0.169 oz. (5mL)	4315 5	**10-060-5A**	----	1/39.85
0.338 oz. (10mL)	4315 10	**10-060-5B**	12/421.00	----
0.50 oz. (15mL)	4315 15	**10-060-5G**	----	1/40.65
1.69 oz. (50mL)	4315 50	**10-060-5D**	----	12/474.00
3.38 oz. (100mL)	4315 100	**10-060-5E**	----	1/59.80
Ŧ Joint 14/22				
0.84 oz. (25mL)	4316 25	**10-060-9A**	----	1/36.55
Ŧ Joint 24/40				
1.69 oz. (50mL)	4318 50	**10-060-11A**	----	1/47.15
3.38 oz. (100mL)	4318 100	**10-060-11B**	----	1/52.10
150mL	4318 150	**10-060-11C**	----	1/56.60
200mL	4318 200	**10-060-11D**	----	1/59.80
250mL	4318 250	**10-060-11E**	----	1/63.30

Looking for Shakers?

You will find a complete selection of New Brunswick Scientific Shakers in the SHAKERS section.

Boiling-Accessories

Fisherbrand® Cork Supports

Durable, compressed cork lab rings

- Concave recesses support dishes and round-bottom flasks
- Durable

07-835A

For Flask Size	I.D. × O.D.	Cat. No.	Each	Pack of 12
0.338 to 3.38 oz. (10 to 100mL)	1.18 × 3.14" (30 × 80mm)	**07-835AA**	9.81	83.90
6.76 to 16.9 oz. (200 to 500mL)	2.36 × 4.33" (60 × 110mm)	**07-835A**	10.44	90.45
33.8 to 101.44 oz. (1000 to 3000mL)	3.54 × 5.51" (90 × 140mm)	**07-835B**	16.24	135.20
169 oz. (5000mL)	4.72 × 6.69" (120 × 170mm)	**07-835C**	31.11	258.06
405.77 oz. (12,000mL)	5.9 × 8.26" (150 × 210mm)	**07-835D**	47.80	396.50

Culture

Fisherbrand® Shaker Flasks

Reduce the risk of cross-contamination

- Nonpyrogenic and noncytotoxic
- Clear, durable polycarbonate with molded-in graduations
- Polypropylene closure with 0.22µm PTFE pore
- Individually packed for easy storage and handling
- Plain bottom for use on benchtop or baffled bottom for shaker table use
- Vented or nonvented screw closure
- Autoclavable (flask and closure)

Fisherbrand Shaker Flasks

CERTIFICATIONS:
Certified sterile at 10^{-6} SAL USP Class VI.

Capacity	Quantity/Case	Cat. No.	Price
Plain Bottom, Vented Closure			
4.22 oz. (125mL)	24	**PBV125**	161.50
8.45 oz. (250mL)	12	**PBV250**	94.50
16.9 oz. (500mL)	12	**PBV500**	147.90
33.8 oz. (1000mL)	6	**PBV1000**	105.80
67.6 oz. (2000mL)	4	**PBV2000**	89.10
94.6 oz. (2800mL)	4	**PBV2800**	169.70
Plain Bottom, Non-vented Closure			
4.22 oz. (125mL)	24	**PBNV125**	147.30
8.45 oz. (250mL)	12	**PBNV250**	85.10
16.9 oz. (500mL)	12	**PBNV500**	123.70
33.8 oz. (1000mL)	6	**PBNV1000**	105.50
Baffled Bottom, Vented Closure			
4.22 oz. (125mL)	24	**BBV125**	206.00
8.45 oz. (250mL)	12	**BBV250**	114.80
16.9 oz. (500mL)	12	**BBV500**	171.40
33.8 oz. (1000mL)	6	**BBV1000**	119.30
67.6 oz. (2000mL)	4	**BBV2000**	100.70
94.6 oz. (2800mL)	4	**BBV2800**	167.90

Thermo Scientific™ Nalgene™ Baffled Culture Flasks; PC

Feature growth curves equivalent to glass flasks for *E. coli* and *S. cerevisiae*

Polycarbonate is break-resistant and clear; easy-to-read graduations help you identify your liquid level with ease.

- Bottom baffles provide increased mixing, aeration and gas exchange
- Excellent for a variety of lab procedures including fermentation, cell culture growing and harvesting and generic engineering procedures
- 500 and 100mL sizes accept either standard 38mm stainless-steel or plastic closures for versatility
- Autoclavable

10-042-5K to -5N

ALERTS:
Repeated autoclaving may result in some loss of mechanical strength.

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
8.45 oz. (250mL)	4110-0250	**10-042-5K**	4/99.10	3 Pk./175.90
16.9 oz. (500mL)	4110-0500	**10-042-5L**	4/149.80	3 Pk./266.00
33.8 oz. (1000mL)	4110-1000	**10-042-5M**	2/115.20	3 Pk./205.00
67.6 oz. (2000mL)	4110-2000	**10-042-5N**	2/140.90	2 Pk./170.70

Thermo Scientific™ Nalgene™ Erlenmeyer Flasks with Screw Closure; PC, PP Closure

For preparing and storing culture media

- Molded-in graduations make liquid levels easy to estimate
- Shatter-proof polycarbonate is safer than glass
- Noncontaminating, tight-sealing, linerless polypropylene screw closures protect contents from spills and contamination
- Autoclavable/transparent/graduated

10-041-17C to -17E

Capacity	Closure	Mfr. No.	Cat. No.	Pack of	Case of
4.22 oz. (125mL)	1.29" (33mm)	4108-0125	**10-041-17C**	6/110.80	4/295.47
8.45 oz. (250mL)	1.49" (38mm)	4108-0250	**10-041-17D**	4/104.30	3/201.50
16.9 oz. (500mL)	1.69" (43mm)	4108-0500	**10-041-17E**	4/146.62	3/293.45

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nalgene™ Sterile Single-Use Erlenmeyer Flasks with Baffled Bottom; PETG

Ideal for shaker and suspension cell culture, media preparation or storage

- Sterile and single-use: reduce contamination risk
- Robust and break resistant: increase personal safety
- Collapses when autoclaved and reduces bio hazardous waste
- Graduated for quick volume assessment
- Excellent validation support: Validation binder available upon request†

Flasks with Solid Closures

Capacity	Neck Finish	Mfr. No.	Cat. No.	Pack of
Solid Closures				
4 oz. (125mL)	38-430	4113-0125	**10-041-23**	24/187.33
8 oz. (250mL)	38-430	4113-0250	**10-346-8A**	12/123.30
16 oz. (500mL)	45-430	4113-0500	**10-346-8B**	12/150.23
32 oz. (1000mL)	45-430	4113-1000	**10-041-24**	6/102.59
64 oz. (2000mL)	45-430	4113-2000	**10-346-8C**	4/86.19

† Validation binders are available to customers as support documentation during your product validation process. This confidential information can be requested at: rocregsupport@thermofisher.com. Following your request submission, a Confidentiality Agreement will be forwarded to you for completion.

Thermo Scientific™ Nalgene™ Sterile Single-Use Erlenmeyer Flasks with Plain Bottom; PETG

Reduce the chance for cross-contamination

- Sterile and single-use: reduce contamination risk
- Robust and break resistant: increase personal safety
- Collapses when autoclaved and reduces bio hazardous waste
- Graduated for quick volume assessment
- Excellent validation support: Validation binder available upon request†

4112 Series

Capacity	Neck Finish	Mfr. No.	Cat. No.	Case of
Solid Closures				
4 oz. (125mL)	38-430	4112-0125	**10-041-20**	24/178.43
8 oz. (250mL)	38-430	4112-0250	**10-346-7A**	12/111.26
16 oz. (500mL)	45-430	4112-0500	**10-346-7B**	12/141.15
32 oz. (1000mL)	45-430	4112-1000	**10-041-21**	6/97.12
64 oz. (2000mL)	45-430	4112-2000	**10-346-7C**	4/81.22

† Validation binders are available to customers as support documentation during your product validation process. This confidential information can be requested at: rocregsupport@thermofisher.com. Following your request submission, a Confidentiality Agreement will be forwarded to you for completion.

Corning™ Two- and Three-Liter Disposable Polycarbonate Erlenmeyer Flasks

Include both a flat cap and a vented cap with 0.2µm filter

- Available in baffled and nonbaffled form

Front: 10-126-43 (left), 10-126-40 (right); Back: 10-126-38 (left), 10-126-42 (right)

Capacity	Bottom Style	Mfr. No.	Cat. No.	Case of
67.6 oz. (2L)	Nonbaffled	431255	**10-126-42**	6/239.41
67.6 oz. (2L)	Baffled	431256	**10-126-43**	6/249.52
101.44 oz. (3L)	Nonbaffled	431252	**10-126-38**	4/276.92
101.44 oz. (3L)	Baffled	431253	**10-126-40**	4/293.76

Corning™ Baffled Polycarbonate Flasks with Caps

Ideal for shaker culture applications

Baffles provide better agitation at lower speed, resulting in gentler, more efficient aeration.

- Erlenmeyer style
- Made from optically clear polycarbonate
- Graduated at 50mL intervals
- Sterilized by gamma radiation and certified nonpyrogenic
- Available with vent caps for applications requiring sterile gas exchange
- Two-position polypropylene plug seal cap can be opened for gas exchange or closed for a liquid-tight seal

13-700-432

NOTES:
Non-baffled styles are also available in all sizes on www.fishersci.com.

Capacity	Mfr. No.	Cat. No.	Case of
Vented Screw Cap			
16.9 oz. (500mL)	431401	**13-700-425**	25/525.29
33.8 oz. (1L)	431403	**13-700-427**	25/745.71
4.22 oz. (125mL)	431405	**13-700-429**	50/610.54
8.45 oz. (250mL)	431407	**13-700-431**	50/687.69
Plug Seal Cap			
33.8 oz. (1L)	431402	**13-700-426**	25/725.50
4.22 oz. (125mL)	431404	**13-700-428**	50/581.50
8.45 oz. (250mL)	431406	**13-700-430**	50/633.50
16.9 oz. (500mL)	431408	**13-700-432**	25/480.00

Falcon™ Erlenmeyer Flasks

High performance polycarbonate Erlenmeyer flask for suspension culture and storage

08-772-25 Series

Disposable culture and storage vessels for cell biology, microbiology or molecular biology applications. They are ideal for use on shaker equipment for culturing bacterial, yeast and mammalian cells as well as for reagent storage.

- Provide flexibility with a 2-in-1 vented or nonvented leakproof cap
- Allow uninhibited visualization of sample or media through the optically clear polycarbonate resin, which is lighter and safer than glass
- Nonpyrogenic, noncytotoxic and nuclease-free
- The wide mouth design of these flasks allows quick and easy fluid additions and removal, as well as providing easy pipet access to the bottom edges
- The molded-in graduations provide accurate volumetric measurement for media and buffers
- 0.2µm PTFE membrane allows for sterile air transfer during aerobic applications
- Ready-to-use, individually packaged, autoclavable and sterile to SAL 10^{-6}
- Available in flat- or baffled-bottom, which provides increased agitation and aeration

STORAGE: Store at room temperature (15-30°C).

COMPLIANCE: USP Class VI

Capacity	Mfr. No.	Cat. No.	Case of
Baffled base			
4.22 oz. (125mL)	355115	**08-772-250**	24/275.00
8.45 oz. (250mL)	355119	**08-772-251**	12/160.80
16.9 oz. (500mL)	355123	**08-772-252**	12/236.00
33.8 oz. (1000mL)	355127	**08-772-253**	6/163.60
67.6 oz. (2000mL)	355131	**08-772-254**	6/205.00
Flat base			
4.22 oz. (125mL)	355117	**08-772-255**	24/272.00
8.45 oz. (250mL)	355121	**08-772-256**	12/158.00
16.9 oz. (500mL)	355125	**08-772-257**	12/232.00
33.8 oz. (1000mL)	355129	**08-772-258**	6/160.00
67.6 oz. (2000mL)	355133	**08-772-259**	6/203.00

Kimble-Chase Kimax™ Baffled Culture Flasks

For fermentation, cell culture growth and cultivation, and genetic engineering procedures

- Bottom baffles provide increased mixing, aeration and gas exchange
- Neck O.D.: 25mm (1") for 125mL size; all others are Neck O.D.: 38mm (1-1/2")

10-140-6A

Capacity	Approx. Height Without Cap	Mfr. No.	Cat. No.	Case of 6
4.22 oz. (125mL)	4.92" (125mm)	25630 125	**10-140-6**	6/138.83
8.45 oz. (250mL)	5.51" (140mm)	25630 250	**10-140-6A**	6/160.22
16.9 oz. (500mL)	7.2" (183mm)	25630 500	**10-140-6B**	6/172.26
33.8 oz. (1000mL)	9.05" (230mm)	25630 1000	**10-140-6C**	6/289.70
67.6 oz. (2000mL)	11.3" (288mm)	25630 2000	**10-140-6D**	6/456.36

Pyrex™ Brand Baffled Culture Flasks

Usable with shakers — three baffles provide optimal and consistent agitation

- Erlenmeyer style
- Heavy tooled rims for maximum durability

10-041-5D

Capacity	Stopper Size	Mfr. No.	Cat. No.	Case of
4.22 oz. (125mL)	5	4450 125	**10-041-5A**	6/206.00
8.45 oz. (250mL)	6	4450 250	**10-041-5B**	6/230.00
16.9 oz. (500mL)	7	4450 500	**10-041-5C**	6/244.00
33.81 oz. (1000mL)	$8^1/_2$	4450 1L	**10-041-5D**	1/58.60

Pyrex™ Brand Culture Media Flasks

Suitable for mixing and storing culture media

- Impact-resistant caps have cemented-in, inert, rubber liners that are resistant to steam sterilization
- Graduated scale
- Marking area

10-093-10C

Capacity	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of	Case of
1.69 oz. (50mL)	24-410	4985 50	**10-093-10A**	12/375.40	2 Pk./545.24
4.22 oz. (125mL)	24-410	4985 125	**10-093-10B**	12/370.31	2 Pk./538.62
8.45 oz. (250mL)	38-430M	4985 250	**10-093-10C**	6/205.00	4 Pk./608.50
16.9 oz. (500mL)	38-430M	4985 500	**10-093-10D**	6/202.69	4 Pk./589.11
33.8 oz. (1000mL)	38-430M	4985 1L	**10-093-10E**	6/273.90	2 Pk./397.84

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Pyrex™ Brand Delong Culture Flasks

Heavy, fire-polished, long necks reduce splashing

- Three baffles provide greater agitation of solutions and improved oxygen or gas transfer when used with rotary or reciprocating shakers
- Necks accept two-position polypropylene closures, available separately

10-041-4C

Capacity	Neck O.D.	Mfr. No.	Cat. No.	Case of
4.22 oz. (125mL)	0.98" (25mm)	4444 125	**10-041-4A**	6/146.60
8.45 oz. (250mL)	1.49" (38mm)	4444 250	**10-041-4B**	6/166.80
16.9 oz. (500mL)	1.49" (38mm)	4444 500	**10-041-4C**	6/186.50
33.8 oz. (1000mL)	1.49" (38mm)	4444 1L	**10-041-4D**	6/303.00
67.6 oz. (2000mL)	1.49" (38mm)	4444 2L	**10-041-4E**	1/78.43
135.26 oz. (4000mL)	1.49" (38mm)	4444 4L	**10-041-4F**	1/174.67

Pyrex™ Brand Shaker Flasks with Extra-Deep Baffles

Long neck reduces splashing

- Delong style
- Extra-deep baffles provide greater agitation and improved gas transfer when used with rotary or reciprocating shakers
- Two-position polypropylene closures are available separately

09-552-36

Capacity	Approx. Neck O.D.	Mfr. No.	Cat. No.	Case of
50mL	0.70" (18mm)	4446 50	**09-552-32**	12/309.00
250mL	1.49" (38mm)	4446 250	**09-552-34**	12/301.69
500mL	1.49" (38mm)	4446 500	**09-552-36**	12/335.50
1000mL	1.49" (38mm)	4446 1L	**09-552-69**	6/239.27
2000mL	1.49" (38mm)	4446 2L	**09-552-70**	3/194.54

Pyrex™ Brand Fernbach Flasks

Wide surface area is ideal for growth of organisms requiring a large surface area-to-volume ratio

- Neck designs: plain, wide-mouth, beaded or with screw cap
- Capacity: 2800mL

10-092

ALERTS:
Do not use standard flask on a heat source smaller than the base of the flask; uneven heating could cause breakage. Do not place baffled flasks on a direct heat source.

Description	Approx. O.D. × H	Mfr. No.	Cat. No.	Each	Case of
Standard					
Wide Mouth	8.05 × 9.05" (205 × 230mm)	4420 2XL	**10-092**	120.50	6/508.50
With GL100 screw cap	7.87 × 9.05" (200 × 230mm)	4426 2XL	**09-552-72**	275.00	----
Baffled					
Plain	7.87 × 10.2" (200 × 260mm)	4424 2XL	**09-552-40**	----	3/427.50
Beaded	7.87 × 9.05" (200 × 230mm)	4423 2XL	**09-552-39**	----	3/410.92
With GL45 screw cap	7.87 × 9.05" (200 × 230mm)	4425 2XL	**09-552-41**	----	3/533.50
With GL100 screw cap	7.87 × 9.05" (200 × 230mm)	4427 2XL	**09-552-73**	342.50	----

Dewar

Fisherbrand® Metal-Cased Cylindrical Dewar Flasks

Borosilicate glass with silvered double walls

- For use with liquefied gases
- Space between walls evacuated and sealed
- Metal casing surrounds glass to protect user from accidental breakage
- Special vented polyethylene stopper minimizes evaporation

10-196-11

Capacity	With Handle	O.D.	Inside Diameter	Height	Cat. No.	Each
0.75 qt. (0.7L)	No	3.38" (8.6cm)	2.75" (7cm)	9.48" (24.1cm)	**10-195A**	181.40
1.13 qt. (1.0L)	No	3.38" (8.6cm)	2.75" (7cm)	13.26" (33.7cm)	**10-195B**	194.60
1.13 qt. (1.0L)	Yes	3.38" (8.6cm)	2.75" (7cm)	13.26" (33.7cm)	**10-196-11**	233.50
2.0 qt. (1.9L)	No	5.9" (15.0cm)	4.72" (12cm)	9.92" (25.2cm)	**10-195C**	444.50
2.0 qt. (1.9L)	Yes	5.9" (15.0cm)	4.72" (12cm)	9.92" (25.2cm)	**10-196-9**	494.50
4.5 qt. (4.3L)	No	7.00" (17.8cm)	5.62" (14.3cm)	14.3" (36.5cm)	**10-195D**	582.50
4.5 qt. (4.3L)	Yes	7.00" (17.8cm)	5.62" (14.3cm)	14.3" (36.5cm)	**10-196-10**	638.00

Fisherbrand® Low-Form Dewar Flasks

Slightly curved bottom increases coolant capacity

- Cylindrical style
- For use with liquefied gases
- Vacuum tip — tubulation is offset to minimize space between the bottom and magnetic stirrer
- Protective aluminum base extends to full height of the Dewar

10-196-6

Capacity	Inside Diameter	Inside Height	Cat. No.	Each
11.8 oz. (350mL)	3.14" (80mm)	2.95" (75mm)	**10-196-6**	397.00
28.68 oz. (850mL)	5.11" (130mm)	2.95" (75mm)	**10-196-7**	467.50
84.0 oz. (2500mL)	6.69" (170mm)	5.31" (135mm)	**10-196-8**	767.00

Fisherbrand® Dewar Flasks

Fully silvered borosilicate glass liner with a blue enameled steel casing

- For storing and transporting liquid gases including liquid nitrogen and solid CO_2
- Vented for automatic pressure release
- Polyethylene-foam insulated lids are fitted with fixing clips
- Ergonomic swing-over handle for safe transport

03-692-15 Series

WARRANTY: Two years

Capacity	I.D.	Height	Cat. No.	Each
1.13 qt. (1L)	4.72" (12.0cm)	9.6" (24.5cm)	**03-692-155**	371.05
2.13 qt. (2L)	5.7" (14.5cm)	10.6" (27.0cm)	**03-692-156**	441.95
4.75 qt. (4.5L)	7.28" (18.5cm)	13.5" (34.3cm)	**03-692-157**	620.48

Thermo Scientific™ Benchtop Flasks

Can be used for dry ice solvent and liquid nitrogen

- High density polyethylene base and HDPE cover with polyethylene coated handle for strong, shatterproof performance
- Double-walled sides and CFC-free foam urethane insulation minimize heat leakage so samples stay cold longer
- Use from -196°C to +100°C
- Pour spout and bottom grip area for ease of removal of used liquids
- Vented, insulated cover allows for vapor escape but maintains sample temperature

10-194-100 Series

Capacity	Height	I.D. at Mouth	Mfr. No.	Cat. No.	Each	Case of
1.125 qt. (1L)	9.05" (23cm)	3.7" (9.5cm)	4150-1000	**10-194-100A**	346.00	4/878.50
2 qt. (2L)	10.23" (26cm)	4.7" (12cm)	4150-2000	**10-194-100B**	353.50	2/461.00
4.25 qt. (4L)	12.59" (32cm)	5.9" (15cm)	4150-4000	**10-194-100C**	385.00	2/502.00
10.5 qt. (10L)	18.11" (46cm)	7.87" (20cm)	4150 9000	**10-194-100D**	468.80	----

Useful Laboratory Cooling Mixtures	Mixture Temperature†
Ice Water	0°C (32°F)
Sodium Chloride/Ice (33-g salt/81-g ice)	-21°C (-6°F)
Calcium Chloride/Ice (100-g salt/81-g ice)	-40°C (-40°F)
Chloroform/Liquid Nitrogen (slush)	-64°C (-83°F)
Dry Ice/Acetone	-78°C (-108°F)
Dry Ice/Isopropanol	-78°C (-108°F)
Toluene/Liquid Nitrogen (slush)	-95°C (-139°F)
Pentane/Liquid Nitrogen (slush)	-130°C (-202°F)
Isopentane/Liquid Nitrogen (slush)	-160°C (-256°F)
Liquid Nitrogen	-196°C (-320°F)‡

† The actual mixture temperature is affected by impurities and therefore is approximate.
‡ Caution: At these low temperatures, the flask will withstand thermal shock but becomes brittle. Avoid dropping heavy objects into flask, otherwise use it freely at these temperatures.

Distilling

Kimble-Chase Kontes™ Distillation Flasks

Improved version of classic Schlenk tube

- Modified Kjeldahl shape facilitates heating, stirring and solvent stripping
- Easily transfer liquids and solids
- Glass plug
- Pressure/vacuum retainer

K213100-2024

Capacity	$ Joint No.	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	14/20	213100-0114	**K213100-0114**	103.11
0.845 oz. (25mL)	14/20	213100-0214	**K213100-0214**	98.00
1.69 oz. (50mL)	14/20	213100-0514	**K213100-0514**	122.20
3.38 oz. (100mL)	14/20	213100-1014	**K213100-1014**	105.80
3.38 oz. (100mL)	24/40	213100-1024	**K213100-1024**	116.40
6.76 oz. (200mL)	24/40	213100-2024	**K213100-2024**	121.30
16.9 oz. (500mL)	24/40	213100-5024	**K213100-5024**	123.25

Kimble-Chase Kontes™ Flasks with Three Angle Necks and $ Joints

Side necks are angled off center neck for greater accessibility

COMPLIANCE:
Designed from ASTM™ E 1378, Type VI requirements.

K295550-0050

Capacity	$ Joint No.				
	Side Necks	Center Neck	Mfr. No.	Cat. No.	Each
0.845 oz. (25mL)	14/20	14/20	295550-0025	**K295550-0025**	78.30
1.69 oz. (50mL)	14/20	14/20	295550 0050	**K295550-0050**	83.10
3.38 oz. (100mL)	14/20	19/22	295500 0100	**K295500-0100**	76.60
3.38 oz. (100mL)	19/22	19/22	295510 0100	**K295510-0100**	78.50
16.9 oz. (500mL)	19/22	19/22	295510 0500	**K295510-0500**	91.90
16.9 oz. (500mL)	24/40	24/40	606020-1024	**K606020-1024**	124.70

Kimble-Chase Kimax™ Pickel Extraction Flasks

Fit with metal condensers

- Three indentations evenly spaced to the center cap or thimble
- Top diameter is closely controlled to ensure a fit with metal condensers available from laboratory supply dealers

10-041-22

Outside Dia. [Body]	Approx. H	Mfr. No.	Cat. No.	Case of
1.77" (45mm)	5.24" (133mm)	26850 99	**10-041-22**	6/178.40

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Pyrex™ Brand Distilling Flasks

Round bottoms, vial mouths, with side arms at 75° angle

- 125mL size has its side arm located approximately 5.37" (137mm) from bottom of flask
- Side arms of all other flask sizes are approximately 3" (77mm) below tops, for immersion thermometers
- Without stopper

10-140F

COMPLIANCE:
Meet Manufacturing Chemists Association Standards. Meet ASTM™ D 233, D 86 and D 447 requirements.

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of 4 Pk.
0.845 oz. (25mL)	0	4620 25	**10-140B**	Cs./26.10	----
1.69 oz. (50mL)	0	4620 50	**10-140C**	Cs./26.80	----
4.22 oz. (125mL)	2	4620 125	**10-140D**	Pk. of 6/203.00	603.50
8.45 oz. (250mL)	3	4620 250	**10-140F**	Cs. of 24/884.00	----
16.9 oz. (500mL)	4	4620 500	**10-140G**	Cs./44.65	----
33.8 oz. (1000mL)	5	4620 1L	**10-140H**	Cs./68.70	----

Pyrex™ Brand Distilling Flasks with Three Vertical, Level Necks

Side necks at same level as center neck

- Two side necks with 24/40 outer $ joints
- Center neck with a 24/40 $ joint

10-164-2A

Capacity	Mfr. No.	Cat. No.	Each	Case of
16.9 oz. (500mL)	4950 500	**10-164-2A**	195.30	4/552.50
33.8 oz. (1000mL)	4950 1L	**10-164-2B**	227.50	4/642.00
67.6 oz. (2000mL)	4950 2L	**10-164-2C**	301.50	4/856.50
101.44 oz. (3000mL)	4950 3L	**10-164-2D**	----	3/969.00
169.07 oz. (5000mL)	4950 5L	**10-164-2E**	----	3/1033.00

Pyrex™ Brand Distilling Flasks with Three Angle Necks and $ Joints

Provide maximum assembly and working space

- Necks are provided with outer $ joints

10-165-5BB

Capacity	$ Joint No. Side Necks	Center Neck	Mfr. No.	Cat. No.	Each	Case of 4
3.38 oz. (100mL)	19/38	24/40	4965 100	**10-165-5A**	187.50	4/531.50
8.45 oz. (250mL)	19/22	19/22	4965B 250	**10-163-4A**	111.30	----
8.45 oz. (250mL)	24/40	24/40	4965 250	**10-165-5BB**	212.50	4/598.50
16.9 oz. (500mL)	19/22	19/22	4965B 500	**10-163-4B**	120.10	----
16.9 oz. (500mL)	24/40	24/40	4965A 500	**10-163-3A**	207.50	----
16.9 oz. (500mL)	24/40	34/45	4965 500	**10-165-5D**	----	4/833.00
33.8 oz. (1000mL)	24/40	24/40	4965A 1L	**10-163-3B**	238.00	----
33.8 oz. (1000mL)	24/40	34/45	4965 1L	**10-165-5E**	----	4/931.50

Pyrex™ Brand Distilling Flasks with Three Vertical Necks

- With side and center neck $ joints

10-164A

Capacity	$ Joint No. Side Necks	Center Neck	Mfr. No.	Cat. No.	Each	Case of
8.45 oz. (250mL)	24/40	24/40	4960 250	**10-164G**	----	4/594.00
16.9 oz. (500mL)	24/40	34/45	4960 500	**10-164A**	----	4/835.00
33.8 oz. (1000mL)	24/40	34/45	4960 1L	**10-164B**	250.00	4/701.00
67.6 oz. (2000mL)	24/40	45/50	4960 2L	**10-164C**	339.00	4/962.00
101.44 oz. (3000mL)	24/40	45/50	4960 3L	**10-164D**	1075.00	----
169.07 oz. (5000mL)	24/40	45/50	4960 5L	**10-164E**	197.37	3/592.11
405.77 oz. (12,000mL)	29/42	55/50	4960 12L	**10-164F**	634.50	----

Erlenmeyer-Glass Without Stoppers

Fisherbrand® Reusable Glass Narrow-Mouth Erlenmeyer Flasks

Useful in measuring and mixing solutions where a high degree of accuracy is not necessary

- Reinforced top tooled with a rounded finish
- Thick-walled body
- Long, tapered outside countour minimizes chipping
- White ceramic enamel marking spot

COMPLIANCE:
Designed with ASTM™ Specification E1404 Type 1, Class 1 requirements.

FB-500 Series

Capacity	Stopper No.	Graduated Interval	Cat. No.	Pack of	Case of
25mL	0	10 to 25mL	**FB-500-25**	12/74.80	4 Pk./230.00
50mL	1	20 to 50mL	**FB-500-50**	12/74.80	4 Pk./230.00
125mL	5	50 to 125mL	**FB-500-125**	12/71.60	4 Pk./220.00
250mL	6	50 to 225mL	**FB-500-250**	12/74.20	4 Pk./228.00
500mL	7	100 to 500mL	**FB-500-500**	6/47.40	6 Pk./215.50
1000mL	9	250 to 1000mL	**FB-500-1000**	6/75.90	4 Pk./233.50
2000mL	10	600 to 2000mL	**FB-500-2000**	4/117.80	2 Pk./181.00
4000mL	10	1000 to 4000mL	**FB-500-4000**	----	1 Pk./93.50
6000mL	10	1500 to 6000mL	**FB-500-6000**	----	1 Pk./171.90

Fisherbrand® Reusable Glass Wide-Mouth Erlenmeyer Flasks

High resistance to heat, chemical attack, and mechanical shock

- Sturdy borosilicate glass construction
- Heavy-duty, tooled-top finish
- Capacity scale measures approximate volume
- Matte-finish ceramic marking spot takes writing and erases easily

COMPLIANCE:
Designed from ASTM™ Specification E1404, Type I, Class 2 requirements.

FB-501-125

Capacity	Graduated Interval	Stopper No.	Approx. O.D.	Approx. Height	Cat. No.	Pack of	Case of
125mL	1.69 to 4.22 oz. (50 to 125mL)	6	2.59" (66mm)	108mm	**FB-501-125**	12/82.40	4/260.00
250mL	1.69 to 7.6 oz. (50 to 225mL)	8	3.03" (77mm)	130mm	**FB-501-250**	12/87.70	4/276.50
500mL	3.38 to 16.9 oz. (100 to 500mL)	10	3.81" (97mm)	172mm	**FB-501-500**	6/55.20	6/261.00
1000mL	8.45 to 33.8 oz. (250 to 1000mL)	11	4.80" (122mm)	216mm	**FB-501-1000**	6/92.20	4/290.50
2000mL	20.28 to 67.6 oz. (600 to 2000mL)	13	6.33" (161mm)	265mm	**FB-501-2000**	4/115.00	2/181.10

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimble-Chase Kimax™ Colorware™ Flasks

Colorful enamel graduations enhance readability and indicate approximate volumes

- Narrow mouth
- Durable, matte-finish marking spot provides good writing surface
- Without stoppers

COMPLIANCE:
Designed from ASTM™ E 1404, Type I, Class 1 requirements.

10-200-45

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
Raging Red				
1.69 oz. (50mL)	1	26500R 50	**10-200-30**	12/68.30
4.22 oz. (125mL)	5	26500R 125	**10-200-34**	12/65.20
8.45 oz. (250mL)	6	26500R 250	**10-200-38**	12/66.70
16.9 oz. (500mL)	7	26500R 500	**10-200-42**	6/42.55
33.8 oz. (1000mL)	9	26500R 1000	**10-200-46**	6/68.30
Sunny Yellow				
1.69 oz. (50mL)	1	26500Y 50	**10-200-31**	12/68.30
4.22 oz. (125mL)	5	26500Y 125	**10-200-35**	12/64.30
8.45 oz. (250mL)	6	26500Y 250	**10-200-39**	12/65.73
16.9 oz. (500mL)	7	26500Y 500	**10-200-43**	6/42.55
33.8 oz. (1000mL)	9	26500Y 1000	**10-200-47**	6/68.30
Cool Green				
1.69 oz. (50mL)	1	26500G 50	**10-200-29**	12/68.30
4.22 oz. (125mL)	5	26500G 125	**10-200-33**	12/64.30
8.45 oz. (250mL)	6	26500G 250	**10-200-37**	12/66.70
16.9 oz. (500mL)	7	26500G 500	**10-200-41**	6/42.55
33.8 oz. (1000mL)	9	26500G 1000	**10-200-45**	6/68.30
Bright Blue				
1.69 oz. (50mL)	1	26500B 50	**10-200-28**	12/67.30
4.22 oz. (125mL)	5	26500B 125	**10-200-32**	12/64.30
8.45 oz. (250mL)	6	26500B 250	**10-200-36**	12/66.70
16.9 oz. (500mL)	7	26500B 500	**10-200-40**	6/42.55
33.8 oz. (1000mL)	9	26500B 1000	**10-200-44**	6/68.30

Kimble-Chase Kimax™ Flasks with Narrow Mouth

With $ neck finish

Graduated scale, marking areas

- Without stoppers

COMPLIANCE:
Designed from ASTM™ E 1404, Type II, Class 1 requirements.

10-101B

Capacity	$ Joint No.	Mfr. No.	Cat. No.	Pack of	Case of
1.69 oz. (50mL)	19/38	26510 50	**10-101**	6/300.61	2 Pk./437.67
4.22 oz. (125mL)	24/40	26510 125	**10-101A**	6/214.42	2 Pk./313.07
8.45 oz. (250mL)	24/40	26510 250	**10-101B**	6/219.61	2 Pk./320.33
16.9 oz. (500mL)	24/40	26510 500	**10-101D**	6/231.55	2 Pk./337.99
33.8 oz. (1000mL)	24/40	26510 1000	**10-101E**	2/107.78	6 Pk./470.38
67.6 oz. (2000mL)	24/40	26510 2000	**10-310-83**	----	1 Pk./71.00

Kimble-Chase Kimax™ Flasks with Reinforced Beaded Top

Tooled heavy-duty top finish

- Durable white enamel capacity scale
- Uniformly thick walls
- Long tapered outside contour
- 250, 300 and 500mL sizes can use covers in place of stoppers
- Stoppers not included

COMPLIANCE:
Designed from ASTM™ E 1404, Type I, Class 1 requirements.

10-039G

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
0.845 oz. (25mL)	0	26500 25	**10-039B**	Pk. of 12/90.75	4 Pk./265.30
1.69 oz. (50mL)	1	26500 50	**10-039C**	Pk. of 12/90.75	4 Pk./265.30
4.22 oz. (125mL)	5	26500 125	**10-039D**	Pk. of 12/86.50	4 Pk./252.84
8.45 oz. (250mL)	6	26500 250	**10-039F**	Pk. of 12/86.18	4 Pk./251.80
10.14 oz. (300mL)	6	26500 300	**10-039G**	Pk. of 12/111.52	4 Pk./326.04
16.9 oz. (500mL)	7	26500 500	**10-039H**	Pk. of 6/54.31	6 Pk./237.79
33.8 oz. (1000mL)	9	26500 1000	**10-039K**	Pk. of 6/91.69	4 Pk./267.90
67.6 oz. (2000mL)	10	26500 2000	**10-039M**	Pk. of 4/142.36	2 Pk./208.19
135.26 oz. (4000mL)	10	26500 4000	**10-039P**	Ea./114.40	----
202.88 oz. (6000mL)	10	26500 6000	**10-039Q**	Ea./210.00	----

Kimble-Chase Kimax™ Titration Flasks

Wide mouth

- Heavy-duty tooled top finish
- Thick walls
- Long tapered outside contour
- Durable white graduations on side
- Stoppers not included

COMPLIANCE: Designed from ASTM™ E 1404, Type I, Class 2 requirements.

10-091B

Capacity	Stopper No.	Mfr. No.	Cat. No.	Pack of	Case of
4.22 oz. (125mL)	6	26650 125	**10-091A**	12/95.74	4 Pk./279.32
8.45 oz. (250mL)	8	26650 250	**10-091B**	12/101.86	4 Pk./297.49
16.9 oz. (500mL)	10	26650 500	**10-091C**	6/64.27	6 Pk./281.40
33.8 oz. (1000mL)	11	26650 1000	**10-091D**	6/107.05	4 Pk./313.07
67.6 oz. (2000mL)	13	26650 2000	**10-091E**	4/133.74	2 Pk./195.21

Kimble-Chase Kimax™ Erlenmeyer Flask Set

Perfect for the small lab that needs a variety of sizes

- Narrow-mouth borosilicate glass flask set
- Five-piece set includes one each of sizes: 50, 125, 250, 500, 1000mL

02-543-21

Description	Mfr. No.	Cat. No.	Each
Erlenmeyer Flask Set	2652001	**02-543-21**	54.30

Corning™ Pyrex™ Brand Flasks with ₮ Joint

Narrow Mouth

- Graduated with outer ₮ joint at top
- Without stoppers

COMPLIANCE:
ASTM™ E 123

10-047C

Capacity	₮ Joint No.	Mfr. No.	Cat. No.	Pack of	Case of
1.69 oz. (50mL)	19/38	5000 50	**10-462-848**	1/37.65	----
4.22 oz. (125mL)	24/40	5000 125	**10-047B**	6/215.00	2 Pk./319.50
8.45 oz. (250mL)	24/40	5000 250	**10-047C**	6/219.50	2 Pk./326.00
16.9 oz. (500mL)	24/40	5000 500	**10-047E**	6/230.00	2 Pk./341.50

Corning™ Pyrex™ Flasks with Reinforced Tooled Top

Ideal for routine usage

- Uniformly thick walls
- Durable white enamel marking spot
- Capacity scale accurate to ±5%
- Use stoppers (not included) as listed in ordering table
- 250, 300 and 500mL sizes also can use covers in place of stoppers

10-040D

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
10mL	0	4980 10	**10-040A**	----	12/113.90
25mL	0	4980 25	**10-040B**	Pk. of 12/92.30	4/275.00
50mL	1	4980 50	**10-040C**	Pk. of 12/89.50	4/266.50
250mL	6	4980 250	**10-040F**	Pk. of 12/83.90	4/245.50
300mL	6	4980 300	**10-040G**	Pk. of 12/102.40	4/297.20
500mL	7	4980 500	**10-040H**	Pk. of 6/52.40	6/233.00
1000mL	9	4980 1L	**10-040K**	Pk. of 6/84.70	4/252.50
4000mL	10	4980 4L	**10-040P**	Ea./111.20	4/313.50

Corning™ Pyrex™ Brand Titration and Culture Heavy-Duty Flasks

Erlenmeyer style, rugged tooled top finish and wide mouth

- Material: borosilicate glass
- Uniform wall thickness
- Designed with heavy-duty rims to reduce chipping
- Graduated in durable white enamel to show the approximate capacity
- Extra large white square marking spot
- Without stoppers

10-090B

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
125mL	6	5100 125	**10-090A**	Pk. of 12/107.61	4 Pk./312.64
250mL	8	5100 250	**10-090B**	Pk. of 12/96.30	4 Pk./286.50
500mL	10	5100 500	**10-090C**	Pk. of 6/60.70	6 Pk./270.50
1000mL	11	5100 1L	**10-090D**	Pk. of 6/102.30	4 Pk./304.50
2000mL	13	5100 2L	**10-090E**	Ea./40.10	8/206.50

Corning™ Pyrex™ Vista™ Volumetric Flasks

Uniform wall thickness provides the proper balance between mechanical strength and thermal shock resistance

- Narrow mouth
- Approximate graduations in durable blue enamel
- Extra large marking space

COMPLIANCE:
Designed to ASTM™ E-1404 Type 1.

07-250-088

Capacity	Mfr. No.	Cat. No.	Pack of	Case of 2 Pk.
25mL	70980-25	**07-250-087**	12/73.30	108.90
50mL	70980-50	**07-250-088**	12/73.30	108.90
125mL	70980-125	**07-250-089**	12/55.20	82.10
250mL	70980-250	**07-250-090**	12/57.10	85.00
500mL	70980-500	**07-250-091**	6/35.95	53.60
1000mL	70980-1L	**07-250-092**	6/68.00	101.30

Erlenmeyer-Accessories

Fisherbrand® Round Covered Lead Flask Rings

Stabilize Erlenmeyer flasks immersed in water baths

- Reduce costly breakage and spilling
- Closed ring fits over the flask and sits against the shoulder
- Tough chemical-resistant coating will not scratch flasks

05-869 Series

For Flask Size	I.D. of Ring	Approx. Weight	Cat. No.	Each
4.22 to 16.9 oz. (125 to 500mL)	1.625" (41mm)	0.5 lb. (227g)	**05-869-5**	27.15
8.45 to 33.8 oz. (250 to 1000mL)	2" (51mm)	1.0 lb. (454g)	**05-869-6**	29.75
16.9 to 67.6 oz. (500 to 2000mL)	2.125" (56mm)	1.5 lb. (681g)	**05-869-7**	35.40
33.8 to 135.26 oz. (1000 to 4000mL)	2.75" (70mm)	2.0 lb. (908g)	**05-869-8**	38.25

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Erlenmeyer-Glass with Stoppers

Kimble-Chase Kimax™ Flasks with Pennyhead Ŧ Stopper

For volatile or hygroscopic liquids

- Narrow mouths
- Graduated scales

COMPLIANCE:
Designed from ASTM™ E 1404, Type II, Class 2 requirements.

10-100E

Capacity	Ŧ Stopper No.	Mfr. No.	Cat. No.	Price	Case of
25mL	16	26600 25	**10-100B**	Pk. of 2/67.60	6 Pk./295.93
50mL	19	26600 50	**10-100C**	Pk. of 2/65.62	6 Pk./287.63
125mL	22	26600 125	**10-100D**	Pk. of 2/77.98	6 Pk./341.62
250mL	27	26600 250	**10-100E**	Pk. of 2/93.66	6 Pk./410.15
500mL	32	26600 500	**10-100F**	Pk. of 2/116.09	4 Pk./339.02
1000mL	32	26600 1000	**10-100G**	Ea./74.66	6/327.08

Kimble-Chase Kimax™ Iodine Determination Flasks with PTFE Stopper

- 250mL size
- Analyze dry shellac and shellac varnishes according to ASTM™ D 29
- Determine total iodine value of oils, fatty acids and bodied oils according to ASTM D 1541
- 500mL size
- Test drying oils for use in paints and varnishes according to ASTM D 555

COMPLIANCE:
Designed from ASTM E 1404, Type II, Class 3 requirements.

10-096A

Capacity	Mfr. No.	Cat. No.	Pack of 2	Case of
125mL	27200 125	**10-096A**	139.04	6 Pk./607.96
250mL	27200 250	**10-096B**	160.84	4 Pk./468.82
500mL	27200 500	**10-096C**	193.76	3 Pk./423.65

Kimble-Chase Kimax™ Erlenmeyer Flasks with Screw Caps

Plastic-coated for added safety

- KimCote™ plastic coating
- Large openings and GL 45 threaded closures for easy access and tight sealing
- Blue caps and clear pour rings included
- Marking spots and scales are durable white ceramic enamel

INCLUDES: Blue caps and pour rings

12-14-1332

Capacity	Approx. Widest Dia.	Approx. Height	Mfr. No.	Cat. No.	Case of
8 oz. (250mL)	3.19" (81mm)	5.12" (130mm)	KC26720 250	**12-14-1332**	6/259.00
16 oz. (500mL)	4.02" (102mm)	6.50" (165mm)	KC26720 500	**12-14-1333**	6/353.50
32 oz. (1000mL)	5.04" (128mm)	8.07" (205mm)	KC26720 1000	**12-14-1334**	4/366.00
64 oz. (2000mL)	6.34" (161mm)	10.43" (265mm)	KC26720 2000	**12-14-1335**	2/187.60

Pyrex™ Brand Iodine Determination Flasks with Barrelhead Ŧ Stopper

Specially designed flasks blown in molds to ensure uniformity and proper contour

- With Ŧ 22 barrelhead stoppers that project above liquid seal trough to facilitate removal of stopper

COMPLIANCE:
ASTM™ D 29 and D 555

10-094A

Capacity	Mfr. No.	Cat. No.	Price	Case of
125mL	5400 125	**10-094A**	Pk. of 6/344.00	2 Pk./512.00
250mL	5400 250	**10-094B**	Ea./82.60	8/443.50
500mL	5400 500	**10-094C**	Ea./98.20	6/404.50

Pyrex™ Brand Low Actinic Flasks with Narrow Mouth, Ŧ Stopper

For laboratory applications involving chemicals sensitive to light

Low actinic stained glass provides protection for photosensitive materials.

- Uniform wall thickness provides mechanical strength, durability and thermal shock resistance

INCLUDES:
Pyrex Ŧ stopper

C55020-250

Capacity	Ŧ Stopper No.	Mfr. No.	Cat. No.	Each
250mL	27	55020 250	**C55020-250**	90.50

Pyrex™ Brand Graduated Erlenmeyer Flasks with Wide Mouths, Screw Caps

Ideal for all media prep and storage needs

Can be used with large-volume serological pipets.

- Single-size plug-seal cap
- Wide, 29mm neck opening

10-041-6A

Capacity	Approx. O.D. × H	Mfr. No.	Cat. No.	Case of
250mL	3.18 × 5.51" (81 × 140mm)	4995 250	**10-041-6A**	6/272.37
500mL	4.01 × 7.28" (102 × 185mm)	4995 500	**10-041-6B**	6/295.32
1000mL	5.03 × 8.85" (128 × 225mm)	4995 1L	**10-041-6C**	6/347.35
2000mL	6.29 × 10.55" (160 × 268mm)	4995 2L	**10-041-6D**	1/84.98
4000mL	8.11 × 13.18" (206 × 335mm)	4995 4L	**10-041-6E**	1/161.49
6000mL	9.25 × 15.55" (235 × 395mm)	4995 6L	**10-041-6F**	1/203.00

Pyrex™ Brand Flasks with Barrelhead ₮ Stoppers

Narrow mouths

- Graduated scales
- Marking areas

Capacity	₮ Stopper No.	Mfr. No.	Cat. No.	Price	Case of
25mL	16	5020 25	**10-098B**	Ea./33.95	12/301.50
50mL	19	5020 50	**10-098C**	Ea./38.90	12/294.50
125mL	22	5020 125	**10-098D**	Pk. of 6/233.50	2 Pk./345.00
250mL	27	5020 250	**10-098E**	Pk. of 6/280.50	2 Pk./414.50
500mL	32	5020 500	**10-098G**	Ea./59.10	8/342.00
1000mL	32	5020 1L	**10-098H**	Ea./82.40	6/329.50

Pyrex Erlenmeyer Flasks with Barrelhead ST Stoppers

Erlenmeyer-Plastic

Thermo Scientific™ Nalgene™ Erlenmeyer Flasks with Screw Closures; PMP, PP Closure

Safer than glass flasks when used in shakers

- Excellent chemical resistance to a wide variety of lab reagents
- More transparent than polypropylene but with similar chemical resistance
- Ideal for preparation and storage of culture media and titrations
- All sizes have easy-to-read graduations
- Autoclavable/Graduated

INCLUDES:
Polypropylene screw closures

10-052-5C, -5E, -5G, -5J

Capacity	Closure Size	Mfr. No.	Cat. No.	Pack of	Case of
125mL	1.299" (33mm)	4109-0125	**10-042-5C**	6/122.74	4 Pk./327.40
250mL	1.49" (38mm)	4109-0250	**10-042-5E**	4/104.05	3 Pk./208.10
500mL	1.69" (43mm)	4109-0500	**10-042-5G**	4/152.30	3 Pk./304.60
1000mL	2.08" (53mm)	4109-1000	**10-042-5J**	2/111.12	3 Pk./222.14

Thermo Scientific™ Nalgene™ Erlenmeyer Flasks; PP

Break- and chemical-resistant

- Translucent wall makes liquid level easily visible
- 2000mL size has molded-in graduations
- Mouth sized to accept standard sized stoppers (stopper sold separately)
- Repeatedly autoclavable for long life and rigorous use

10-041-10B to -10F

Capacity	Stopper No.	Mfr. No.	Cat. No.	Pack of	Case of
125mL	3	4102-0125	**10-041-10B**	12/165.41	2 Pk./220.54
250mL	6	4102-0250	**10-041-10C**	6/106.84	2 Pk./142.35
500mL	7	4102-0500	**10-041-10D**	4/98.02	3 Pk./195.84
1000mL	8	4102-1000	**10-041-10E**	2/77.08	3 Pk./154.17
2000mL	10	4102-2000	**10-041-10F**	2/103.60	3 Pk./202.00

Filtering

Fisherbrand® Reusable Heavy-Wall Filter Flasks

With heavier walls than standard Erlenmeyer flasks

- Side tubulation capacity scale
- Designed to take 1 atmosphere of vacuum or 20" of mercury
- Sizes 125 through 500mL have side hose connection designed to accept 0.31" I.D. flexible tubing
- Sizes 1000mL and larger accept 0.38" I.D. tubing

COMPLIANCE:
Designed from ASTM™ Specification E 1406, Type II, Class I requirements.

FB-300-2000

Capacity	Stopper No.	Graduation Range	Inside Diameter	Outside Diameter	Height	Cat. No.	Pack of	Case of
250mL	6	2.53 to 8.45 oz. (75 to 250mL)	0.98" (25mm)	3.26" (83mm)	6.41" (163mm)	**FB-300-250**	6/150.30	3 Pk./339.00
500mL	7	5.07 to 16.9 oz. (150 to 500mL)	1.96" (50mm)	4.09" (104mm)	7.48" (190mm)	**FB-300-500**	6/251.00	3 Pk./592.50
1000mL	8	10.14 to 33.8 oz. (300 to 1000mL)	1.96" (50mm)	5.31" (135mm)	9.37" (238mm)	**FB-300-1000**	6/416.00	2 Pk./623.00
2000mL	9	20.28 to 67.6 oz. (600 to 2000mL)	3.93" (100mm)	6.61" (168mm)	11.81" (300mm)	**FB-300-2000**	1/105.90	----
4000mL	12	33.8 to 135.26 oz. (1000 to 4000mL)	9.84" (250mm)	8.18" (208mm)	14.9" (380mm)	**FB-300-4000**	1/155.50	----

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Kimax™ Flasks with Quick-Release Hose Connector

Allow safe attachment of 0.25" I.D. (6mm) tubing

- Tubing remains permanently attached to hose barb and opposite end attaches to flask tubulation with positive threaded seal
- Proper positioning of connector provides greater flask stability as tubing angled downward has less tendency to tilt flask
- Graduated with approximate volume scale in durable white ceramic enamel
- Tubing and stoppers sold separately

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
250mL	6	27070 250	**10-181-7B**	Cs. of 2/61.30	----
500mL	7	27070 500	**10-181-7C**	Pk. of 2/124.91	4 Pk./364.98
1000mL	8	27070 1000	**10-181-7D**	Ea./74.60	----
2000mL	9	27070 2000	**10-181-7E**	Ea./129.10	----
4000mL	12	27070 4000	**10-181-7F**	Ea./170.30	----

10-181-7D (tubing not included)

Kimble-Chase Kimax™ Filtering Flasks with Side Arm

Heavy walled with graduated scale, side tubulation, tooled neck

- Sizes 25, 50, and 125mL suitable for microanalysis
- Sizes 25 and 500mL have side hose connections for 0.3125" I.D. (8mm) flexible tubing
- Sizes 1000mL and larger accept 0.375" I.D. (9.5mm) tubing

COMPLIANCE:
Designed from ASTM™ E 1406, Type II requirements.

10-181D

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
25mL	3	27060 25	**10-181A**	Pk. of 6/225.84	3 Pk./494.78
50mL	4	27060 50	**10-181B**	Pk. of 6/226.00	3 Pk./507.00
250mL	6	27060 250	**10-181D**	Pk. of 6/173.61	3 Pk./380.56
500mL	7	27060 500	**10-181E**	Pk. of 6/301.12	3 Pk./659.88
1000mL	8	27060 1000	**10-181F**	Pk. of 6/475.57	2 Pk./694.66
2000mL	9	27060 2000	**10-181G**	Ea./161.10	----
4000mL	12	27060 4000	**10-181H**	Ea./237.50	----

Kimble-Chase Kimax™ Flasks with Detachable Side Arm

Detachable plastic side arm secured by neoprene grommet

- Erlenmeyer form with heavy wall
- White graduated scale
- Tooled mouth
- Autoclavable plastic side arm is designed to accept 0.3125" I.D. flexible tubing
- Bent grommet reduces tendency of rubber hose to overturn empty flask

10-181-5A

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
250mL	6	27065 250	**10-181-5A**	Pk. of 2/100.51	9 Pk./657.80
500mL	7	27065 500	**10-181-5B**	Pk. of 2/144.33	9 Pk./944.91
1000mL	8	27065 1000	**10-181-5C**	Pk. of 2/230.52	6 Pk./1006.17
2000mL	9	27065 2000	**10-181-5D**	Ea./198.40	----
4000mL	12	27065 4000	**10-181-5E**	Ea./233.50	----

Pyrex™ Brand Filtering Flask with Plastic Tubulation

Replaceable plastic side arm secured by neoprene grommet

- Heavy-wall glass flask
- Angled downward to reduce tendency of tubing to overturn flask
- Permanent white enamel graduations and marking spot

ORDERING INFORMATION:
Tubulation O.D. is 0.5" (12.5mm), accepts 0.375" I.D. (9.5mm) flexible tubing.

10-180T

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
500mL	7	5341 500	**10-180T**	1/54.40
4000mL	12	5341 4L	**10-462-849**	4/646.96

Pyrex™ Brand Filtering Flasks with Tubulation

Tubulations for easy connections to filter pumps

- Heavy walls, graduated on sides, flat bottoms
- Necks finished to give excellent fitting for rubber stoppers
- Sizes 25, 50 and 125mL suited for microanalysis
- All sizes are graduated except 25, 50 and 125mL

ORDERING INFORMATION:
Tubulation O.D. for 25 and 50mL flasks is 8mm; for sizes 125 to 1000mL is 10mm; for 2000 and 4000mL is 12.5mm.

10-180D

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
25mL	3	5360 25	**10-180A**	Pk. of 6/201.92	3 Pk./440.42
50mL	4	5360 50	**10-180B**	Pk. of 6/204.49	3 Pk./444.01
125mL	5	5360 125	**10-180C**	Pk. of 6/213.00	3 Pk./475.00
250mL	6	5340 250	**10-180D**	Pk. of 6/171.50	3 Pk./373.00
500mL	7	5340 500	**10-180E**	Pk. of 6/238.50	3 Pk./531.50
1000mL	8	5340 1L	**10-180F**	Pk. of 6/446.50	2 Pk./663.50
2000mL	9	5340 2L	**10-180G**	Ea./173.00	12/1317.00
4000mL	12	5340 4L	**10-180H**	Ea./224.00	6/944.50

Pyrex™ Brand Heavy-Wall Filtering Flasks, Graduated

Shaped to give maximum mechanical strength

- Erlenmeyer form with heavy walls, graduated on side
- Marked "Filter Flask" for quick, easy identification
- White marking spot
- Without tubulations
- Stoppers not included

10-041A

Capacity	Stopper No.	Mfr. No.	Cat. No.	Price	Case of
250mL	6	5320 250	**10-041A**	Pk. of 6/155.70	3 Pk./348.00
500mL	7	5320 500	**10-041B**	Pk. of 6/359.50	3 Pk./801.00
1000mL	8	5320 1L	**10-041C**	Pk. of 6/487.50	2 Pk./725.00
2000mL	9	5320 2L	**10-041D**	Ea./165.30	12/1352.00
4000mL	12	5320 4L	**10-041E**	Ea./212.50	6/900.00

Thermo Scientific™ Nalgene™ Vacuum Flask; PP

Withstand vacuum to 30"Hg

- Molded in one piece to withstand full vacuum and for durability
- Tubulation at 45° angle prevents tipping when hose is attached
- Barbed adapter accepts 0.25 to 0.375 " I.D. tubing (tubing sold separately)
- Oval marking area for ease of labeling
- Neck sized to fit standard stopper sizes (stopper not included)
- Autoclavable

10-182-50A, -50B, 10-182-51

Capacity	Accepts Stopper No.	Mfr. No.	Cat. No.	Each
500mL	7	DS4101-0500	**10-182-50A**	23.70
1000mL	8	DS4101-1000	**10-182-50B**	36.76
1700mL	10	DS4101-2000	**10-182-51**	45.05

PyrexPlus™ Brand Filtering Flasks with Tubulation

Pyrex™ borosilicate glass with PVC coating reduces chance of breakage

- Graduated to show approximate capacity
- Uncoated tubulation allows easy connection of standard size tubing
- Autoclavable to 121°C (250°F)

ORDERING INFORMATION:
Tubulation O.D. is 0.375" (10mm) on 250, 500 and 1000mL sizes; 0.5" (12.5mm) on 2000 and 4000mL sizes.

NOTES:
Do not place over direct heat or open flame. Do not heat above 121°C (250°F) with moist heat or 110°C (230°F) with dry heat.

10-180L

Capacity	Mfr. No.	Cat. No.	Each	Case of
250mL	65340 250	**10-180J**	----	1/231.50
500mL	65340 500	**10-180K**	----	1/251.50
1000mL	65340 1L	**10-180L**	----	1/533.50
2000mL	65340 2L	**10-180M**	240.00	4/673.00
4000mL	65340 4L	**10-180N**	350.00	2/490.00

Kjeldahl

Kimble-Chase Kimax™ Kjeldahl Flasks

Reinforced bead at the top

- Tooled neck
- Without stoppers

COMPLIANCE:
Designed from ASTM™ E 1377, Type I requirements.

10-111B

Capacity	Stopper No.	Mfr. No.	Cat. No.	Pack of 6	Case of
100mL	1	27400 100	**10-041-24A**	160.43	4 Pk./467.78
500mL	6	27400 500	**10-111B**	223.77	4 Pk./652.61
800mL	7	27400 800	**10-111C**	201.86	3 Pk./441.30

Pyrex™ Brand Kjeldahl Flasks

Long necks, round bottoms, substantial walls

- Size 100mL and larger have strong tool-finished mouths
- 30mL size (neck not tooled) is suited for multiple microdigestion apparatus
- Avoid contact between flask bottoms and heating elements

COMPLIANCE:
30mL meets ASTM™ E 147; 100mL and larger meet ASTM E 258 requirements.

10-110B

Capacity	Stopper No.	Mfr. No.	Cat. No.	Pack of 6	Case of
30mL	0	5440 30	**10-110B**	----	18/451.50
100mL	2	5420 100	**10-110C**	145.50	4 Pk./417.50
300mL	5	5420 300	**10-110D**	----	24/882.00
500mL	6	5420 500	**10-110E**	210.50	4 Pk./624.50
800mL	7	5420 800	**10-110G**	198.70	3 Pk./444.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Reaction

Corning™ Pyrex™ Organic Reaction Kettle Assembly

Lower sections moldblown for breakage resistance

- Covers have four openings to accommodate interchangeable ₮ joints, allowing quick assembly with condensers, stirrers and funnels
- Glass kettles designed for organic reactions involving viscous materials
- Wide mouth for easy cleaning of interior
- Covers have heavy pressed construction
- Finely ground flanges for tight seal
- 500 and 1000mL sizes have interchangeable covers with four ₮ 24/40 joints; 2000, 3000, 4000mL sizes have one ₮ 34/45 and three ₮ 24/40 joints
- Includes bottom and cover
- Order clamp and mantle separately

11-847A kettle assembly is held together by 11-847-30A clamp and placed in 11-847-15A mantle to heat reaction (order all separately)

CERTIFICATIONS:
CSA certified.

Capacity	O.D. × H	Mfr. No.	Cat. No.	Each
500mL	3.75 × 8.25" (9.5 × 21cm)	6947 500	**11-847A**	666.50
1000mL	4.3125 × 8.625" (11 × 22cm)	6947 1L	**11-847B**	652.50
2000mL	5.50 × 9.437" (14 × 24cm)	6947 2L	**11-847C**	710.50
3000mL	5.50 × 12.625" (14 × 32cm)	6947 3L	**11-847D**	823.00
4000mL	5.50 × 15.75" (14 × 40cm)	6947 4L	**11-847E**	785.50

Bottom Only

For Kettle	Mfr. No.	Cat. No.	Each	Case of 4
11-847A	6947 500BO	**11-847-10A**	----	1005.00
11-847B	6947 1LBO	**11-847-10B**	339.00	951.50
11-847C	6947 2LBO	**11-847-10C**	----	1264.00
11-847D	6947 3LBO	**11-847-10D**	----	1516.00
11-847E	6947 4LBO	**11-847-10E**	2030.00	----

Cover Only

For Kettle	Mfr. No.	Cat. No.	Each	Case of 2
11-847A, B	6947 500CO	**11-847-5A**	----	1092.00
11-847C, D, E	6947 2LCO	**11-847-5B**	662.50	923.50

Recovery

Kimble-Chase Kontes™ Heavy Wall Recovery Flasks with ₮ Outer Joint

Ideal for use with rotary evaporators

KimCote™ plastic-coated glassware provides an added measure of safety in the event of breakage.

- Single-neck flask with ₮ outer joint
- Designed for easy recovery of reaction products
- Total contents are accessible with a spatula or policeman
- Lower portion fits standard heating mantles
- Even wall thickness and minimum runout

K608675-4124

With Square Bead

Capacity	₮ Joint No.	Approx. Dia.	Cat. No.	Each
1.69 oz. (50mL)	24/40	1.88" (48mm)	**K608675-4124**	40.95
3.38 oz. (100mL)	24/40	2.36" (60mm)	**K608675-4224**	36.05
3.38 oz. (100mL)	29/42	2.36" (60mm)	**K608675-6229**	37.30
6.76 oz. (200mL)	24/40	2.99" (76mm)	**K608675-4324**	44.30
16.9 oz. (500mL)	24/40	4.01" (102mm)	**K608675-4624**	72.70
33.8 oz. (1000mL)	24/40	5.11" (130mm)	**K608675-4724**	86.90
33.8 oz. (1000mL)	29/42	5.11" (130mm)	**K608675-6729**	90.96
67.6 oz. (2000mL)	24/40	6.33" (161mm)	**K608675-4824**	122.40

With Standard Bead

Capacity	₮ Joint No.	Approx. Dia.	Cat. No.	Each
0.338 oz. (10mL)	14/20	1.22" (31mm)	**K294300-0010**	28.40
0.845 oz. (25mL)	14/20	1.65" (42mm)	**K294300-0025**	28.40
0.845 oz. (25mL)	19/22	1.65" (42mm)	**K294305-0025**	28.60
1.69 oz. (50mL)	14/20	1.88" (48mm)	**K294300-0050**	38.30
1.69 oz. (50mL)	19/22	1.88" (48mm)	**K294305-0050**	28.60
3.38 oz. (100mL)	14/20	2.36" (60mm)	**K294300-0100**	29.55
3.38 oz. (100mL)	24/25	2.36" (60mm)	**K608675-0224**	36.55
6.76 oz. (200mL)	14/20	2.99" (76mm)	**K294300-0200**	38.20
6.76 oz. (200mL)	24/25	2.99" (76mm)	**K608675-0324**	48.25
16.9 oz. (500mL)	24/25	4.01" (102mm)	**K608675-0624**	68.53

Volumetric Glass - Class A

Fisherbrand® PFA Flasks with Screw Caps

Calibrated "To Contain" within Class A tolerances

Suitable for trace element analysis, isotope separations, sample digestions and the handling of sensitive biological solutions.

02-617-15 Series

- Made from PFA copolymer
- Translucent
- Deliver outstanding chemical and solvent resistance over a temperature range of -260° to +270°C
- Extremely low absorption and permeability levels associated with PFA
- Graduation lines are highly legible, accurate and permanent
- Autoclavable at 250°F/121°C for 20 minutes
- Can be sterilized using ethylene oxide gas, dry heat (160°C), beta or gamma irradiation (25kGy), or chemical disinfectant

INCLUDES:
PFA screw closures to provide a secure seal from outside contamination.

COMPLIANCE:
Meet ASTM™ E 288, E 542 and E 694 standards.

Capacity	Tolerance	Mfr. No.	Cat. No.	Each
0.845 oz. (25mL)	±0.4mL	341524	**02-617-152**	276.00
1.69 oz. (50mL)	±0.06mL	341534	**02-617-153**	322.00
3.38 oz. (100mL)	±0.10mL	341544	**02-617-154**	356.50
8.45 oz. (250mL)	±0.15mL	341554	**02-617-155**	500.50
16.9 oz. (500mL)	±0.25mL	341564	**02-617-156**	565.50

Fisherbrand® Reusable Glass Class A Volumetric Flasks with Snap Caps

Class A accuracy – without a serial number

- Calibrated "To Contain"

INCLUDES:
Polyethylene snap cap

COMPLIANCE:
Designed from ASTM™ specification E288

FB-401-2000

Capacity	Stopper No.	Cat. No.	Each	Case of
0.338 oz. (10mL)	2	**FB-401-10**	----	----
67.6 oz. (2000mL)	8	**FB-401-2000**	109.90	4/307.00
0.845 oz. (25mL)	16	**10-200A**	73.40	12/615.50
1.69 oz. (50mL)	16	**10-200B**	73.50	12/617.00
3.38 oz. (100mL)	16	**10-200C**	82.05	12/678.77
6.76 oz. (200mL)	16	**10-200D**	91.05	12/753.23
8.45 oz. (250mL)	16	**10-200E**	96.20	12/807.00
16.9 oz. (500mL)	16	**10-200F**	124.06	12/1026.92
33.8 oz. (1000mL)	16	**10-200G**	150.03	6/620.80

Fisherbrand® Reusable Glass Class A Volumetric Flasks with $ Stopper

Single graduation ring blasted on the neck

- Calibrated "To Contain"

INCLUDES: Ground glass stopper with marking spot

COMPLIANCE: Designed from ASTM™ Specification E 288, Class A unserialized requirements.

Capacity	$ Stopper No.	Cat. No.	Each	Case of
0.338 oz. (10mL)	9	**FB-400-10**	---	12/351.00
6.76 oz. (200mL)	16	**FB-400-200**	6 Pk./325.50	2 Pk./512.00
67.6 oz. (2000mL)	27	**FB-400-2000**	Ea./111.30	4/351.00
0.845 oz. (25mL)	9	**10-205A**	Ea./116.40	12/963.30
1.69 oz. (50mL)	9	**10-205B**	Ea./138.80	12/1165.00
3.38 oz. (100mL)	13	**10-205C**	Ea./135.10	12/1135.00
8.45 oz. (250mL)	16	**10-205D**	Ea./158.20	12/1309.91
16.9 oz. (500mL)	19	**10-205E**	Ea./257.63	12/2131.43
33.8 oz. (1000mL)	22	**10-205F**	Ea./310.41	6/1284.05

FB-400-Series

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Kimax™ Class A Flasks Unserialized with Snap Cap

Calibrated "To Contain"

- Meet Class A tolerances
- Graduation line is blasted on neck
- Enlarged top of cap will protect neck if flask is tipped over
- Polyethylene snap cap

COMPLIANCE:
Designed from ASTM™ specification E 288, Class A unserialized requirements.

10-199-1J

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
0.338 oz. (10mL)	28008 10	**10-041-26K**	1/34.15	12/303.00
0.845 oz. (25mL)	28008 25	**10-041-26M**	6/218.06	2 Pk./318.26
1.69 oz. (50mL)	28008 50	**K28008-50**	----	12/334.00
3.38 oz. (100mL)	28008 100	**10-199-1J**	----	12/342.00
6.76 oz. (200mL)	28008 200	**10-041-26L**	----	12/445.00
8.45 oz. (250mL)	28008 250	**10-041-26N**	----	12/483.50
16.9 oz. (500mL)	28008 500	**10-041-26P**	----	12/581.50
33.8 oz. (1000mL)	28008 1000	**10-199-1H**	----	6/325.50
67.6 (2000mL)	28008 2000	**10-199-1K**	----	4/373.00

Kimble-Chase Kimax™ Flasks with Graduation Line Etched through Vertical Red Stripe

Calibrated "To Contain" within Class A tolerances

- Meet specifications in Class A Tolerances chart
- Colorless graduation is clearly legible against contrasting red background
- With $ pennyhead stoppers

COMPLIANCE:
Designed from requirements for Class A unserialized flasks of ASTM™ E 288.

10-248E

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Price	Case of
25mL	9	28013 25	**10-248A**	Pk. of 6/296.97	2 Pk./433.52
50mL	9	28013 50	**10-248B**	Pk. of 6/316.70	2 Pk./462.07
100mL	13	28013 100	**10-248C**	Pk. of 6/337.99	2 Pk./493.22
200mL	16	28013 200	**10-248D**	Pk. of 6/390.42	2 Pk./569.54
250mL	16	28013 250	**10-248E**	Pk. of 6/421.06	2 Pk./614.71
500mL	19	28013 500	**10-248F**	Pk. of 6/522.81	2 Pk./763.19
1000mL	22	28013 1000	**10-248G**	Ea./105.50	6/462.07
2000mL	27	28013 2000	**10-248H**	Ea./154.40	4/451.17

Kimble-Chase Kimax™ Heavy-Duty Clear Glass Volumetric Class A Flasks with PTFE Stoppers

Stoppers are color coded for easy identification

- Wide mouth makes pipet access easy
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Sizes from 5 to 250mL are calibrated to meet ASTM™ E288

13-756-696

Capacity	Stopper $ No.	Color Code	Mfr. No.	Cat. No.	Case of
0.169 oz. (5mL)	13	Orange	92812F-5	**13-756-689**	6/182.30
0.338 oz. (10mL)	13	Orange	92812F-10	**13-756-690**	6/196.60
0.676 oz. (20mL)	13	Orange	92812F-20	**13-756-691**	6/215.50
0.845 oz. (25mL)	13	Orange	92812F-25	**13-756-692**	6/207.46
1.69 oz. (50mL)	13	Orange	92812F-50	**13-756-693**	6/217.00
3.38 oz. (100mL)	16	Blue	92812F-100	**13-756-694**	6/264.50
6.76 oz. (200mL)	19	Green	92812F-200	**13-756-695**	6/344.00
8.45 oz. (250mL)	19	Green	92812F-250	**13-756-696**	6/343.50
16.9 oz. (500mL)	19	Green	92812F-500	**13-756-697**	6/412.50
33.8 oz. (1000mL)	22	Yellow	92812F-1000	**13-756-698**	1/126.26
67.6 oz. (2000mL)	27	Red	92812F-2000	**13-756-699**	1/188.40

Kimble-Chase Kimax™ Heavy-Duty Clear Glass Volumetric Class A Flasks without Stoppers

Stoppers are available separately

- Wide mouth makes pipet access easy
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Sizes from 5 to 250mL are calibrated to meet ASTM™ E288

13-757-811

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
0.169 oz. (5mL)	13	92812N-5	**13-757-811**	6/172.50
0.338 oz. (10mL)	13	92812F-10	**13-757-812**	6/187.00
0.676 oz. (20mL)	13	92812N-20	**13-757-813**	6/205.50
0.845 oz. (25mL)	13	92812N-25	**13-757-814**	6/202.50
1.69 oz. (50mL)	13	92812N-50	**13-757-815**	6/208.00
3.38 oz. (100mL)	16	92812N-100	**13-757-816**	6/255.50
6.76 oz. (200mL)	19	92812N-200	**13-757-817**	6/334.50
8.45 oz. (250mL)	19	92812N-250	**13-757-818**	6/334.50
16.9 oz. (500mL)	19	92812N-500	**13-757-819**	6/403.50
33.8 oz. (1000mL)	22	92812N-1000	**13-757-820**	1/131.80
67.6 oz. (2000mL)	27	92812N-2000	**13-757-821**	1/186.30

Kimble-Chase Kimax™ Flasks with Color-Coded PTFE Stoppers

Calibrated "To Contain"

- Marking spot on 10mL and larger sizes
- The 2mL size is test-tube shaped; all other sizes are conventional flask shape
- Tolerances specified in Class A Tolerances chart
- Stopper ₮ sizes: 9 (2, 5, 10, 25, 50mL); 13 (100mL); 16 (200, 250mL); 19 (500mL); 22 (1000mL); 27 (2000mL)

COMPLIANCE:
Designed from ASTM™ specification E 288, Class A unserialized requirements.

10-208H

Capacity	Mfr. No.	Cat. No.	Price	Case of
2mL	28014F 2	**10-208B**	----	12/319.81
5mL	28014F 5	**10-208C**	----	12/365.50
10mL	28014F 10	**10-208D**	----	12/379.00
25mL	28014F 25	**10-208E**	Pk. of 6/281.40	2 Pk./410.67
50mL	28014F 50	**10-208F**	Pk. of 6/302.68	2 Pk./442.34
100mL	28014F 100	**10-208G**	Pk. of 6/317.22	2 Pk./463.11
200mL	28014F 200	**10-208H**	Pk. of 6/376.92	2 Pk./550.33
250mL	28014F 250	**10-208J**	Pk. of 6/406.52	2 Pk./593.42
500mL	28014F 500	**10-208K**	Pk. of 6/499.45	2 Pk./728.93
1000mL	28014F 1000	**10-208L**	Ea./102.90	6/451.17
2000mL	28014F 2000	**10-208M**	Ea./131.35	4/383.67

Kimble-Chase Kimax™ Flasks with ₮ Polyethylene Stoppers

Calibrated "To Contain"

- ₮ ground neck
- Enlarged top of stopper protects neck if flask is tipped over
- Marking spot
- Linear high-density closed-bottom polyethylene stopper
- Stopper ₮ sizes: 9 (5 to 50mL); 13 (100mL); 16 (200, 250mL); 22 (1000mL); 27 (2000mL)

10-212-5G

Capacity	Tolerance	Mfr. No.	Cat. No.	Price	Case of
0.169 oz. (5mL)	±0.02mL	28014P 5	**10-212-5C**	----	12/387.00
10mL	±0.02mL	28014P 10	**10-212-5D**	----	12/339.54
25mL	±0.03mL	28014P 25	**10-212-5E**	Pk. of 6/252.00	2 Pk./373.00
50mL	±0.05mL	28014P 50	**10-212-5F**	Pk. of 6/271.01	2 Pk./395.62
100mL	±0.08mL	28014P 100	**10-212-5G**	Pk. of 6/279.84	2 Pk./408.59
200mL	±0.10mL	28014P 200	**10-212-5H**	Pk. of 6/328.12	2 Pk./479.20
8.45 oz. (250mL)	±0.12mL	28014P 250	**10-212-5J**	Pk. of 6/348.89	2 Pk./508.80
16.9 oz. (500mL)	±0.20mL	28014P 500	**10-212-5K**	Pk. of 6/448.05	2 Pk./654.17
1000mL	±0.30mL	28014P 1000	**10-212-5L**	Ea./91.30	6/405.50
67.6 oz. (2000mL)	±0.50mL	28014P 2000	**10-212-5M**	Ea./117.80	4/346.50

Kimble-Chase Kimax™ Flasks with ₮ Pennyhead Stoppers

Calibrated "To Contain"

- Sizes 5mL and larger have designated volumes within Class A tolerances
- Sizes 1 and 2mL are test-tube shaped

COMPLIANCE:
Designed from requirements for Class A unserialized flasks of ASTM™ E 288.

10-209D

Capacity	Stopper ₮ No.	Mfr. No.	Cat. No.	Price	Case of
1mL	8	28014 1	**10-209AA**	----	12/414.00
2mL	8	28014 2	**10-209BB**	----	12/426.00
5mL	9	28014 5	**10-209M**	----	6/341.00
10mL	9	28014 10	**10-209A**	----	12/459.00
25mL	9	28014 25	**10-209B**	Pk. of 6/341.00	2 Pk./503.00
50mL	9	28014 50	**10-209C**	Pk. of 6/362.00	2 Pk./535.50
100mL	13	28014 100	**10-209D**	Pk. of 6/383.00	2 Pk./565.00
200mL	16	28014 200	**10-209E**	Pk. of 6/398.73	2 Pk./582.52
250mL	16	28014 250	**10-209F**	Pk. of 6/465.50	2 Pk./689.00
500mL	19	28014 500	**10-209G**	Pk. of 6/510.50	2 Pk./756.00
1000mL	22	28014 1000	**10-209H**	Ea./107.90	6/484.50
2000mL	27	28014 2000	**10-209J**	Ea./136.30	4/408.00

Kimble-Chase Kimax™ Wide-Mouth Volumetric Flask

Calibrated "To Contain"

- #13 neck
- Provides easier pipet access
- Meets specifications in the volumetric flasks chart
- With glass stopper

ORDERING INFORMATION:
Capacity, 50mL.

10-212-6

Mfr. No.	Cat. No.	Each	Case of 6
28014W 50	**10-212-6**	52.20	231.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Kimax™ Heavy-Duty Clear Glass Class A Volumetric Flasks with Glass Stoppers

Large numbers make it easy to identify volume from far away

- Wide mouth
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Calibrated to meet ASTM™ E288

K92810W-50

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
0.338 oz. (10mL)	13	92810W-10	**10-310-235**	6/188.15
0.676 oz. (20mL)	13	92810W-20	**10-310-236**	6/205.70
0.845 oz. (25mL)	13	92810W-25	**10-310-237**	6/202.38
1.69 oz. (50mL)	13	92810W-50	**K92810W-50**	1/45.05
3.38 oz. (100mL)	16	92810W-100	**10-212-7A**	1/54.90
8.45 oz. (250mL)	19	92812G-250	**10-212-7B**	1/72.20
0.169 oz. (5mL)	13	92812G-5	**13-756-684**	6/185.80
6.76 oz. (200mL)	19	92812G-200	**13-756-685**	6/350.50
16.9 oz. (500mL)	19	92812G-500	**13-756-686**	6/415.00
33.8 oz. (1000mL)	22	92812G-1000	**13-756-687**	1/131.30
67.6 oz. (2000mL)	27	92812G-2000	**13-756-688**	1/191.90
135.2 oz. (4000mL)	38	92812G-4000	**13-756-400**	1/400.50
202.8 oz. (6000mL)	38	92812G-6000	**13-756-401**	1/526.00

Kimble-Chase Kimax ™ Heavy-Duty RAY-SORB™ Glass Class A Volumetric Flasks with Glass Stoppers

Protects contents from harmful UV light

- Wide mouth makes pipet access easy
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Sizes from 5 to 250mL are calibrated to meet ASTM™ E288

13-756-700

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
0.169 oz. (5mL)	13	92822G-5	**13-756-700**	6/233.00
0.338 oz. (10mL)	13	92822G-10	**13-756-701**	6/250.50
0.676 oz. (20mL)	13	92822G-20	**13-756-702**	6/257.00
0.845 oz. (25mL)	13	92822G-25	**13-756-703**	6/257.00
1.69 oz. (50mL)	13	92822G-50	**13-756-704**	6/279.00
3.38 oz. (100mL)	16	92822G-100	**13-756-705**	6/379.00
6.76 oz. (200mL)	19	92822G-200	**13-756-706**	6/416.50
8.45 oz. (250mL)	19	92822G-250	**13-756-707**	6/434.50
16.9 oz. (500mL)	19	92822G-500	**13-756-708**	6/516.00
33.8 oz. (1000mL)	22	92822G-1000	**13-756-709**	1/160.10
67.6 oz. (2000mL)	27	92822G-2000	**13-756-710**	1/235.00

Kimble-Chase Kimax™ Heavy-Duty RAY-SORB™ Glass Volumetric Class A Flasks with PE Stoppers

With polyethylene stoppers

- Wide mouth makes pipet access easy
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Sizes from 5 to 250mL are calibrated to meet ASTM™ E288

13-757-822

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Case of
5mL	13	92822P-5	**13-757-822**	6/212.86
10mL	13	92822P-10	**13-757-823**	6/233.11
20mL	13	92822P-20	**13-757-824**	6/239.86
25mL	13	92822P-25	**13-757-825**	6/239.86
50mL	13	92822P-50	**13-757-826**	6/259.59
100mL	16	92822P-100	**13-757-827**	6/353.56
200mL	19	92822P-200	**13-757-828**	6/390.42
250mL	19	92822P-250	**13-757-829**	6/407.56
500mL	19	92822P-500	**13-757-830**	6/480.24
1000mL	22	92822P-1000	**13-757-831**	1/152.74
2000mL	27	92822P-2000	**13-757-832**	1/221.69

Kimble-Chase Kimax™ Heavy-Duty RAY-SORB™ Glass Volumetric Class A Flasks with PTFE Stoppers

Stoppers are color coded for easy identification

RAY-SORB processing protects contents from harmful UV light.

- Wide mouth makes pipet access easy
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Sizes from 5 to 250mL are calibrated to meet ASTM™ E288

13-756-718

Capacity	Stopper $ No.	Color Code	Mfr. No.	Cat. No.	Case of
5mL	13	Orange	92822F-5	**13-756-711**	6/232.00
10mL	13	Orange	92822F-10	**13-756-712**	6/246.50
20mL	13	Orange	92822F-20	**13-756-713**	6/256.00
25mL	13	Orange	92822F-25	**13-756-714**	6/256.00
50mL	13	Orange	92822F-50	**13-756-715**	6/277.00
100mL	16	Blue	92822F-100	**13-756-716**	6/376.50
200mL	19	Green	92822F-200	**13-756-717**	6/415.00
250mL	19	Green	92822F-250	**13-756-718**	6/433.00
500mL	19	Green	92822F-500	**13-756-719**	6/514.50
1000mL	22	Yellow	92822F-1000	**13-756-720**	1/160.00
2000mL	27	Red	92822F-2000	**13-756-721**	1/226.36

Kimble-Chase Kimax™ Heavy-Duty RAY-SORB™ Volumetric Class A Flasks without Stoppers

RAY-SORB processing protects flask contents from short-length lightwaves

- Wide mouth makes pipet access easy
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Sizes from 5 to 250mL are calibrated to meet ASTM™ E288

13-757-833

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
5mL	13	92822N-5	**13-757-833**	6/208.71
10mL	13	92822N-10	**13-757-834**	6/226.88
15mL	13	92822N-20	**13-757-835**	6/234.15
20mL	13	92822N-25	**13-757-836**	6/234.15
25mL	13	92822N-50	**13-757-837**	6/253.88
50mL	16	92822N-100	**13-757-838**	6/347.85
100mL	19	92822N-200	**13-757-839**	6/384.71
200mL	19	92822N-250	**13-757-840**	6/401.85
250mL	19	92822N-500	**13-757-841**	6/469.86
1000mL	22	92822N-1000	**13-757-842**	Ea./150.46
2000mL	27	92822N-2000	**13-757-843**	Ea./215.46

Kimble-Chase Kimax™ Flasks for Light-Sensitive Materials

Calibrated "To Contain"

- Protection from wavelengths below 500nm for materials sensitive to light
- Class A, RAY-SORB™ processed glass
- Marking spots
- PTFE, $ stopper with color-coded handle
- Stopper $ sizes: 9 (10, 25, 50mL); 13 (100); 16 (200, 250); 19 (500); 22 (1000)
- Tolerances specified on Class A Tolerances Chart

10-229 Series

Capacity	Mfr. No.	Cat. No.	Price	Case of
10mL	28016 10	**10-229**	----	12/510.87
25mL	28016 25	**10-229A**	Pk. of 6/402.36	2 Pk./587.19
50mL	28016 50	**10-229B**	Pk. of 6/451.69	2 Pk./659.36
100mL	28016 100	**10-229C**	Pk. of 6/450.13	2 Pk./656.76
200mL	28016 200	**10-204-6**	----	12/673.38
250mL	28016 250	**10-229D**	Pk. of 6/554.48	2 Pk./809.92
500mL	28016 500	**10-229E**	Pk. of 6/1067.00	2 Pk./1579.00
1000mL	28016 1000	**10-229F**	Ea./223.77	6/976.06

Kimble-Chase Kimax™ Flasks Serialized and Certified with $ Pennyhead Stopper

Permanent individual serial number

- Calibrated and certified against NIST-Traceable equipment

10-212B

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Each	Case of
10mL	9	28017 10	**10-212AA**	68.22	12/597.06
25mL	9	28017 25	**10-212BB**	81.20	12/711.28
50mL	9	28017 50	**10-212A**	86.70	12/759.56
100mL	13	28017 100	**10-212B**	97.19	12/851.45
200mL	16	28017 200	**10-212C**	99.16	12/868.59
250mL	16	28017 250	**10-212D**	106.22	12/929.85
500mL	19	28017 500	**10-212E**	131.56	12/1152.58
1000mL	22	28017 1000	**10-212F**	160.43	6/702.45
2000mL	27	28017 2000	**10-212G**	203.10	4/592.90

Kimble-Chase Kimax™ Flasks Serialized and Class A Certified with Snap Caps

COMPLIANCE:
Designed from ASTM™ specified E288, Class A serialized requirements. 500mL size is suitable for determining specific gravity of fine aggregate according to ASTM C 128.

10-201C

Capacity	Mfr. No.	Cat. No.	Each	Case of
50mL	28012 50	**10-201A**	48.10	12/405.00
100mL	28012 100	**10-201B**	51.35	12/448.05
250mL	28012 250	**10-201C**	71.44	12/623.53
500mL	28012 500	**10-201D**	70.82	12/615.75
1000mL	28012 1000	**10-201E**	95.43	6/416.38

Kimble-Chase Kontes™ Class A Volumetric Flasks with $ Stopper

Calibrated "To Contain"

- KimCote™ plastic coating for added safety
- With single graduation ring blasted on the neck
- $ ground glass stopper is supplied
- Marking spots are durable white ceramic enamel
- Designed from ASTM™ Specification E288, Class A unserialized requirements

12-141-346

Capacity	± Tolerance	$ Stopper	Height with Stopper	Mfr. No.	Cat. No.	Case of
100mL	±0.08mL	13	180mm	KC28014 100	**12-141-346**	12/690.50
250mL	±0.12mL	16	250mm	KC28014 250	**12-141-347**	12/882.50
500mL	±0.20mL	19	287mm	KC28014 500	**12-141-348**	12/1069.00
1000mL	±0.30mL	22	338mm	KC28014 1000	**12-141-349**	4/442.50
2000mL	±0.50mL	27	400mm	KC28014 2000	**12-141-350**	2/341.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ Pyrex™ Flasks Serialized and Certified with $ Barrelhead Stopper

Calibrated to Class A tolerances in accordance with ASTM™ E-542 and E-288

- The graduation line is sharp and permanent and large white block letters make the inscription easy to read

CERTIFICATIONS:
Individually calibrated and certified against equipment whose calibration is traceable to NIST™.

10-211E

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Each
10mL	9	5680 10	**10-211V**	54.00
25mL	9	5680 25	**10-211A**	64.30
50mL	9	5680 50	**10-211B**	68.60
100mL	13	5680 100	**10-211C**	70.60
200mL	13	5680 200	**10-211D**	78.50
250mL	16	5680 250	**10-211E**	84.10
500mL	19	5680 500	**10-211F**	104.10
1000mL	22	5680 1L	**10-211G**	124.40
2000mL	27	5680 2L	**10-211H**	159.10

Corning™ Pyrex™ Class A EZ Access™ Flasks with Glass Stoppers

Interchangeable $ ground glass stoppers in various sizes

ORDERING INFORMATION:
Replacement stoppers, order 14-640-1B.

08-549-12B

O.D. × H	Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Case of 6
1.57 × 3.93" (40 × 100mm)	0.845 oz. (25mL)	13	5635 25	**08-549-12A**	203.87
2.00 × 5.11" (51 × 130mm)	1.69 oz. (50mL)	13	5635 50	**08-549-12B**	212.73
2.55 × 6.29" (65 × 160mm)	3.38 oz. (100mL)	16	5635 100	**10-462-873**	318.33
3.34 × 7.08" (85 × 180mm)	8.45 oz. (250mL)	19	5635 250	**10-462-874**	411.50

Corning™ Pyrex™ Serialized and Certified Flasks, Low Actinic

Calibrated "To Contain" within Class A tolerances

11-850-23

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Each
0.338 oz. (10mL)	9	55680-10	**11-850-23**	77.00
0.845 oz. (25mL)	9	55680-25	**11-850-27**	85.30
1.69 oz. (50mL)	9	55680-50	**11-850-30**	88.90
3.38 oz. (100mL)	13	55680-100	**11-850-24**	90.50
6.76 oz. (200mL)	13	55680-200	**11-850-26**	109.50
8.45 oz. (250mL)	16	55680-250	**11-850-28**	113.10
16.9 oz. (500mL)	19	55680-500	**11-850-31**	142.70
33.8 oz. (1000mL)	22	55680-1L	**11-850-25**	157.30
67.6 oz. (2000mL)	27	55680-2L	**11-850-29**	194.84

Corning™ Pyrex™ Class A EZ Access™ Low Actinic Flasks

Low actinic stained glass provides protection for materials sensitive to light

- Heavy-duty flasks, wide mouth facilitates filling and mixing
- Easy-to-read graduation line is sharp and permanent
- Class A tolerances
- Retain mechanical strength, chemical stability and thermal resistance
- Supplied with Interchangeable Stopper

13-646-24

O.D. × H	Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Case of 6
1.57 × 3.93" (40 × 100mm)	0.845 oz. (25mL)	13	55635-25	**13-646-23**	279.50
2.55 × 6.29" (65 × 160mm)	3.38 oz. (100mL)	16	55635-100	**13-646-22**	414.50
3.34 × 7.08" (85 × 180mm)	8.45 oz. (250mL)	19	55635-250	**13-646-24**	527.00

Corning™ Pyrex™ Class A Flasks with Snap Cap

Calibrated "To Contain"

- Machine-blown bodies with sealed heavy-beaded, heavy-tubing necks tooled for snap-cap fit
- Sharp graduation lines for accuracy within tolerances specified in table on Class A Tolerance chart
- Sizes 1 to 25mL are suitable for micro work
- Sizes 1 and 2mL are test-tube shaped
- Plastic snap caps with sizes 10mL and larger

20-810B

Capacity	Mfr. No.	Cat. No.	Price	Case of
1mL	5580 1	**20-809A**	----	6/205.50
2mL	5580 2	**20-809B**	----	6/219.00
10mL	5580 10	**20-810A**	Ea./35.65	12/282.50
25mL	5580 25	**20-810B**	Pk. of 6/199.60	2 Pk./297.50
50mL	5580 50	**10-202A**	Pk. of 6/205.50	2 Pk./306.00
100mL	5580 100	**10-202B**	Pk. of 6/219.00	2 Pk./326.00
200mL	5580 200	**10-202C**	Pk. of 6/268.50	2 Pk./399.50
250mL	5580 250	**10-202D**	Pk. of 6/289.00	2 Pk./429.50
500mL	5580 500	**10-202E**	Pk. of 6/351.00	2 Pk./522.00
1000mL	5580 1L	**10-202F**	Ea./73.90	6/309.00
2000mL	5580 2L	**10-202G**	Ea./121.90	4/342.50

Corning™ Pyrex™ Class A Flasks with Lifetime Red™ Graduations, Snap Cap

- Same as 10-202 Series flasks except capacity markings are fine lines etched through narrow red bands
- Graduation lines are highly legible, accurate and permanent
- Plastic snap cap

10-202-1C

Capacity	Mfr. No.	Cat. No.	Price	Case of
25mL	5600 25	**10-202H**	----	12/322.00
50mL	5600 50	**10-202-1A**	Pk. of 6/189.80	2 Pk./283.00
100mL	5600 100	**10-202-1B**	Pk. of 6/221.50	2 Pk./329.50
200mL	5600 200	**10-202-1C**	Pk. of 6/256.50	2 Pk./382.00
250mL	5600 250	**10-202-1D**	Pk. of 6/272.50	2 Pk./405.00
500mL	5600 500	**10-202-1E**	Pk. of 6/330.50	2 Pk./492.00
1000mL	5600 1L	**10-202-1F**	Ea./74.20	6/313.00
2000mL	5600 2L	**10-202-1G**	Ea./114.60	4/322.00

Corning™ Pyrex™ Brand Flasks with Lifetime Red™ Graduation Line and $ Stopper

Sharp, clear graduation lines

- Machine-blown bodies sealed to heavy-beaded, heavy-tubing necks
- High thermal and chemical resistance
- Calibrated "To Contain" within Class A Tolerances
- Capacity mark is a fine line etched through a narrow red band for high legibility and accuracy

10-210-8D

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Price	Case of
25mL	9	5660 25	**10-210-8A**	Pk. of 6/281.50	2 Pk./419.00
50mL	9	5660 50	**10-210-8B**	Pk. of 6/300.00	2 Pk./446.50
100mL	13	5660 100	**10-210-8C**	Pk. of 6/320.50	2 Pk./477.00
200mL	13	5660 200	**10-210-8D**	Pk. of 6/369.30	2 Pk./536.79
250mL	16	5660 250	**10-210-8E**	Pk. of 6/398.95	2 Pk./579.44
500mL	19	5660 500	**10-210-8F**	Pk. of 6/494.66	2 Pk./718.84
1000mL	22	5660 1L	**10-210-8G**	Ea./105.80	6/435.37
2000mL	27	5660 2L	**10-210-8H**	Ea./154.80	4/424.97

Corning™ Pyrex™ Brand Flasks with $ Polyethylene Stoppers

Sharp, clear graduation lines

- Machine-blown bodies sealed to heavy-beaded, heavy-tubing necks
- High thermal and chemical resistance
- Calibrated "To Contain" within Class A Tolerances
- Necks are ground for $ stopper
- Linear high-density, closed-bottom polyethylene stoppers
- Stopper $ sizes: 8 (5mL); 9 (10, 25, 50mL); 13 (100, 200mL); 16 (250mL); 19 (500mL); 22 (1000mL); 27 (2000mL)

10-210-5E

Capacity	Mfr. No.	Cat. No.	Price	Case of
25mL	5642 25	**10-210-5A**	Pk. of 6/240.50	2 Pk./357.50
50mL	5642 50	**10-210-5B**	Pk. of 6/257.00	2 Pk./382.00
100mL	5642 100	**10-210-5C**	Pk. of 6/263.50	2 Pk./391.50
200mL	5642 200	**10-210-5D**	Pk. of 6/313.00	2 Pk./465.50
250mL	5642 250	**10-210-5E**	Pk. of 6/333.00	2 Pk./495.00
500mL	5642 500	**10-210-5F**	Pk. of 6/423.50	2 Pk./631.00
1000mL	5642 1L	**10-210-5G**	Ea./91.40	6/375.91
2000mL	5642 2L	**10-210-5H**	Ea./116.20	4/327.00

Corning™ Pyrex™ Flasks with $ Stoppers

Machine-blown body

- High thermal and chemical resistance
- Sharp, clear graduation lines
- Calibrated "To Contain" within Class A Tolerances
- Sizes 1 to 10mL are for microchemistry
- Sizes 1 and 2mL are test-tube shaped
- Sizes 3000 to 6000mL have Standard Taper($) pennyhead stoppers
- Sizes 1 to 2000mL have Corning barrelhead stoppers with flat tops in order to stand the inverted stopper on the table and reduce plug contamination

10-210C

Capacity	Stopper $ No.	Mfr. No.	Cat. No.	Price	Case of
1mL	8	5640 1	**20-812A**	Ea./45.10	12/379.50
2mL	8	5640 2	**20-812B**	Ea./48.75	12/410.00
5mL	8	5640 5	**20-812C**	Ea./37.35	12/314.50
10mL	9	5640 10	**20-812D**	Ea./44.95	12/379.50
25mL	9	5640 25	**10-210A**	Pk. of 6/275.00	2 Pk./410.00
50mL	9	5640 50	**10-210B**	Pk. of 6/293.50	2 Pk./436.50
100mL	13	5640 100	**10-210C**	Pk. of 6/309.50	2 Pk./460.50
200mL	13	5640 200	**10-210D**	Pk. of 6/368.00	2 Pk./547.50
250mL	16	5640 250	**10-210E**	Pk. of 6/504.50	2 Pk./749.00
500mL	19	5640 500	**10-210F**	Pk. of 6/487.50	2 Pk./724.50
1000mL	22	5640 1L	**10-210G**	Ea./103.50	6/436.50
2000mL	27	5640 2L	**10-210H**	Ea./133.20	4/374.50
3000mL	32	5640 3L	**10-210J**	Ea./373.50	----
4000mL	38	5640 4L	**10-210K**	Ea./417.50	----
5000mL	38	5640 5L	**10-210L**	Ea./484.50	----
6000mL	38	5640 6L	**10-210M**	Ea./558.00	----

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ Pyrex™ Class A Flasks without Stoppers

Sharp, clear graduation lines

10-210-1 Series (stopper not included)

Capacity	Mfr. No.	Cat. No.	Case of
10mL	5640 10FO	**10-210-1B**	12/326.50
25mL	5640 25FO	**10-210-1C**	1/38.85
50mL	5640 50FO	**10-210-1D**	1/41.90
100mL	5640 100FO	**10-210-1E**	12/368.76
200mL	5640 200FO	**10-210-1F**	1/50.95
250mL	5640 250FO	**10-210-1G**	1/54.10
500mL	5640 500FO	**10-210-1H**	1/69.20
1000mL	5640 1LFO	**10-210-1J**	1/83.30

Corning™ Pyrex™ Vista™ Volumetric Flasks

Necks are tooled for ₮ glass stoppers

- Provide precise volume measurement
- Graduation line is sharp and permanent
- Large blue block letters make the inscription easy to read

COMPLIANCE:
Manufactured to Class A tolerances as established by ASTM™ E-694 for volumetric ware, ASTM E-542 for calibration of volumetric ware, and ASTM E-288 for volumetric flasks.

07-250-103

Capacity	Mfr. No.	Cat. No.	Pack of	Case of
10mL	70640-10	**07-250-099**	----	12/307.00
25mL	70640-25	**07-250-100**	6/195.00	2/290.50
50mL	70640-50	**07-250-101**	6/208.50	2/309.50
100mL	70640-100	**07-250-102**	6/221.00	2/328.50
200mL	70640-200	**07-250-103**	6/259.00	2/385.50
250mL	70640-250	**07-250-104**	6/277.00	2/411.50
500mL	70640-500	**07-250-105**	6/343.00	2/510.50
1000mL	70640-1L	**07-250-106**	1/71.30	2/106.00
2000mL	70640-2L	**07-250-107**	1/90.90	2/132.01

Corning™ PyrexPlus™ Brand Volumetric Flasks

PVC coating on the outside reduces chance of breakage

- With Pyrex™ glass stoppers
- Similar to 20-812 and 10-210 Series
- Autoclavable to 121°C (250°F)
- Easy-to-read graduation mark

ALERTS:
Do not place over direct heat or flame. Do not heat above 121°C (250°F) with moist heat or 110°C (230°F) dry heat.

10-240G

Capacity	Stopper ₮ No.	Mfr. No.	Cat. No.	Each	Case of
100mL	13	65640 100	**10-240C**	----	12/965.50
200mL	13	65640 200	**10-240D**	----	12/1131.00
250mL	16	65640 250	**10-240E**	----	12/1221.00
500mL	19	65640 500	**10-240F**	----	12/1454.00
1000mL	22	65640 1L	**10-240G**	187.10	4/526.00
2000mL	27	65640 2L	**10-240H**	234.00	2/328.50

Volumetric - Class A Microflasks

Kimble-Chase Kimax™ Serialized/ Certified Cylindrical Microflasks

Calibrated "To Contain"

- Permanently marked with individual serial number
- Individually calibrated and certified against equipment whose calibration is traceable to NIST™
- Cylindrical body for better mixing and draining
- Easier to withdraw samples using pipets
- Wide base provides stability
- Marking spot
- Ground glass stopper
- 1 and 2mL sizes come with ₮ 8 stopper; 10mL size with ₮ 9 stopper

COMPLIANCE:
Designed from requirements of ASTM™ E 237, Class A serialized.

10-212 Series

Capacity	Tolerance	Mfr. No.	Cat. No.	Each	Case of 6
1mL	±0.01mL	28017A 1	**10-212J**	69.30	307.50
2mL	±0.015mL	28017A 2	**10-212K**	75.90	332.79
5mL	±0.02mL	28017A 5	**10-212H**	----	329.50
25mL	±0.05mL	28017A 25	**10-212L**	100.00	442.00

Corning™ Pyrex™ Brand Cylindrical Microflasks

Calibrated "To Contain"

- Volumetric flasks for microchemical work (sizes 1 through 5mL)
- Hexagonal base improves the stability of small flask
- Interchangeable ₮ stoppers
- Sharp permanent graduation lines
- Easy-to-read white markings

20-814 Series

COMPLIANCE:
Designed from requirements of ASTM™ E 237, Class A; Sizes 1 to 5mL are designed to meet standards of ACS Committee of Microchemical Apparatus, Analytical Division.

Capacity	Tolerance	Mfr. No.	Cat. No.	Price	Case of
1mL	±0.01mL	5630 1	**20-814A**	Ea./67.40	12/568.00
2mL	±0.015mL	5630 2	**20-814B**	Ea./76.80	12/647.50
5mL	±0.02mL	5630 5	**20-814E**	Ea./75.30	12/634.00
10mL	±0.02mL	5630 10	**20-814F**	Ea./86.50	12/728.00
25mL	±0.03mL	5630 25	**20-814G**	Pk. of 6/571.50	2 Pk./850.00

Corning™ Pyrex™ Brand Class A Flasks for Light-Sensitive Materials

Calibrated "To Contain"

- Made of low actinic glass
- Filter out ultraviolet and most visible light below 500nm
- ₮ barrelhead stoppers
- Tolerances specified on Class A Tolerances Chart

10-227B

Capacity	Stopper No.	Mfr. No.	Cat. No.	Pack of	Case of
0.338 oz. (10mL)	9	55640 10	**10-227G**	----	12/502.50
0.845 oz. (25mL)	9	55640 25	**10-227A**	6/382.50	2 Pk./562.00
1.69 oz. (50mL)	9	55640 50	**10-227B**	6/71.70	2 Pk./419.50
3.38 oz. (100mL)	13	55640 100	**10-227C**	1/76.00	12/643.50
8.45 oz. (250mL)	16	55640 250	**10-227D**	1/383.35	12/586.72
16.9 oz. (500mL)	19	55640 500	**10-227E**	1/132.80	----
33.8 oz. (1000mL)	22	55640 1L	**10-227F**	1/162.40	----
Flask Only					
6.76 oz. (200mL)	----	55640-200FO	**11-850-21**	----	12/618.45
8.45 oz. (250mL)	----	55640-250FO	**11-850-22**	----	12/767.22

Volumetric - Class A Special Purpose

Kimble-Chase Kimax™ Class A Cassia Flask

Calibrated "To Contain"

- Official U.S. Pharmacopeia method to assay cinnamaldehyde and to analyze cassia, cinnamon and clove extracts
- Determine amount of unsaturated constituents in straw oil or similar wash oils by sulfonation method
- Tolerance: ±0.08mL
- Capacity: 100 to 110mL in 0.1mL divisions
- With ₮ 13 stopper

10-245

Mfr. No.	Cat. No.	Pack of 2	Case of 3 Pk.
28066 110	**10-245**	194.50	431.50

Kimble-Chase Kimax™ Kohlrausch Flasks

Calibrated "To Contain"

- Meet tolerances specified in Class A Tolerances Chart
- Easy to fill with solids; used in analysis of filter press cake
- Adjusted for use at 20°C (68°F)
- Stopper not included

10-260B

Capacity	Mfr. No.	Cat. No.	Pack of 2	Case of 6 Pk.
100mL	28100 100	**10-260A**	209.75	915.31
200mL	28100 200	**10-260B**	232.59	1015.52

Kimble-Chase Kimax™ Class A Mixing Bulb-Style Volumetric Flask with Standard Taper Stopper

Mixing bulb in neck contains approximately 0.1 of capacity of body to aid in dissolving or mixing contents

- Calibrated "To Contain"
- Designed from ASTM™ E 288 Class A unserialized requirements
- With marking spot and ₮ 13 ground glass stopper
- Tolerance ±0.08mL

K28019-100

Capacity	Mfr. No.	Cat. No.	Pack of
50mL	28019 50	**10-041-29C**	6/918.00
100mL	28019 100	**K28019-100**	4/369.50
250mL	28019 250	**10-041-29B**	4/736.00
1000mL	28019 1000	**10-041-29A**	4/615.75

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimble-Chase Kimax™ Class A Square-Shaped Flasks

Calibrated "To Contain"

- Maximize small storage spaces
- Marking spots
- Cover 25 to 35% less area than conventional flasks
- Extra weight and square shape increase stability
- With ₮ stoppers

COMPLIANCE:
Retested for accuracy within ASTM™ tolerances as specified in Class A Tolerances Chart. Designed with ASTM specification e288, Class A unserialized requirements.

10-310-94

Capacity	Stopper ₮ No.	Mfr. No.	Cat. No.	Each
50mL	9	28040 50	**22-043-527**	50.80
100mL	13	28040 100	**10-310-91**	56.80
200mL	16	28040 200	**10-310-219**	130.94
250mL	16	28040 250	**10-310-94**	134.10
500mL	19	28040 500	**10-310-95**	166.70
1000mL	22	28040 1000	**10-310-92**	193.00
2000mL	27	28040 2000	**10-310-93**	255.50

Pyrex™ Brand Class A Flasks with Bulbed Neck

Calibrated "To Contain" at 20°C (68°F)

- Bulb has 0.1 of flask capacity for all sizes except 2000mL, which has 0.05 of flask capacity
- Extra capacity in neck is used for preliminary titration, leaving full volume for adjustment of normality of solution
- Tolerances specified on Class A Tolerances Chart
- ₮ barrelhead stoppers
- Stopper ₮ sizes: 13 (100); 16 (250); 19 (500); 22 (1000); 27 (2000)

COMPLIANCE: Meet specifications of Manufacturing Chemists Association.

10-224C

Capacity	Mfr. No.	Cat. No.	Case of
100mL	5820 100	**10-224B**	12/1198.00
250mL	5820 250	**10-224C**	1/124.20
500mL	5820 500	**10-224D**	1/144.50
1000mL	5820 1L	**10-224E**	6/978.00
2000mL	5820 2L	**10-224F**	1/232.50

Pyrex™ Brand Flasks for Determining Phosphoric Acid in Fertilizer

Calibrated "To Contain," ±0.18mL limit of error

- Heavy construction to withstand vigorous shaking
- Wide neck
- Stopper not included

10-240B

Capacity	Mfr. No.	Cat. No.	Pack of 6	Case of 2 Pk.
200mL	5840 200	**10-240A**	287.00	426.00
250mL	5840 250	**10-240B**	285.50	424.50

Volumetric - Class B

Kimble-Chase Kimax™ Class B Flasks with ₮ Pennyhead Stopper

Calibrated "To Contain" within Class B tolerances

- Tolerances as specified in Class B Volume Tolerances chart ₮ ground glass stoppers
- Stopper ₮ sizes: 9 (1, 2, 10, 25, 50mL); 13 (100mL); 16 (200, 250mL); 19 (500mL); 22 (1000mL); 27 (2000mL)

COMPLIANCE:
Designed from ASTM™ E 288 Class B requirements.

10-204F

Capacity	Mfr. No.	Cat. No.	Price	Case of
10mL	28015 10	**10-204A**	----	12/347.50
25mL	28015 25	**10-204B**	Pk. of 6/256.47	2 Pk./373.29
50mL	28015 50	**10-204C**	Pk. of 6/271.01	2 Pk./394.58
100mL	28015 100	**10-204D**	Pk. of 6/294.89	2 Pk./429.36
200mL	28015 200	**10-204E**	Pk. of 6/407.00	2 Pk./758.50
250mL	28015 250	**10-204F**	Pk. of 6/356.16	2 Pk./519.70
500mL	28015 500	**10-204G**	Pk. of 6/451.17	2 Pk./659.88
1000mL	28015 1000	**10-204H**	Ea./92.00	6/401.85
2000mL	28015 2000	**10-204J**	Ea./143.20	4/423.50

Kimble-Chase Kimax™ Class B Flasks with Polyethylene Snap Cap

Calibrated "To Contain"

- Meet Class B tolerances on Class B Volume Tolerances Chart
- Permanent graduation line
- Polyethylene snap cap protects neck if tipped over

COMPLIANCE:
Designed from requirements for Class B flasks of ASTM™ E 288.

10-199F

Capacity	Mfr. No.	Cat. No.	Price	Case of
10mL	28010 10	**10-199A**	----	12/271.50
25mL	28010 25	**10-199B**	Pk. of 6/198.12	2 Pk./289.18
50mL	28010 50	**10-199C**	Pk. of 6/179.95	2 Pk./262.70
100mL	28010 100	**10-199D**	Pk. of 6/206.53	2 Pk./301.64
200mL	28010 200	**10-199E**	Pk. of 6/328.64	2 Pk./479.72
250mL	28010 250	**10-199F**	Pk. of 6/246.09	2 Pk./359.27
500mL	28010 500	**10-199G**	Pk. of 6/307.35	2 Pk./448.05
1000mL	28010 1000	**10-199H**	Ea./66.20	6/292.00
2000mL	28010 2000	**10-199J**	Ea./115.10	4/339.00

Pyrex™ Brand Class B Flasks with Ŧ Stopper

Calibrated "To Contain" at 20°C (68°F)

- Meet tolerance requirements listed in Class B Volume Tolerances Chart
- Glass stopper
- Stopper Ŧ sizes: 9 (10, 25, 50mL); 13 (100, 200mL); 16 (250mL); 19 (500mL); 22 (1000mL); 27 (2000mL)

10-206F

Capacity	Mfr. No.	Cat. No.	Price	Case of
10mL	5641 10	**10-206A**	----	12/346.50
25mL	5641 25	**10-206B**	Pk. of 6/260.50	2 Pk./388.00
50mL	5641 50	**10-206C**	Pk. of 6/275.50	2 Pk./410.50
100mL	5641 100	**10-206D**	Pk. of 6/297.00	2 Pk./442.00
200mL	5641 200	**10-206E**	Pk. of 6/343.00	2 Pk./510.00
250mL	5641 250	**10-206F**	Pk. of 6/363.00	2 Pk./540.50
500mL	5641 500	**10-206G**	----	12/665.61
1000mL	5641 1L	**10-206H**	Ea./99.00	6/417.50
2000mL	5641 2L	**10-206J**	Ea./142.40	4/391.21

Thermo Scientific™ Nalgene™ Class B Volumetric Flasks with Screw Caps; PMP, PP screw closure

Calibrated "To Contain" and "To Deliver" at 20°C (68°F)

- Break resistance and excellent chemical resistance for years of dependable use in the lab
- Individually hand-calibrated, permanent color graduation line and oval marking spot for ease in reading fluid levels
- No meniscus to confuse readings
- Autoclavable/leakproof/graduated

COMPLIANCE:
Meet ASTM™ E288 and ISO 384 Class B tolerances for consistent quality and dependability.

10-198-52A, -52C, -52E to -52G

Capacity	Mfr. No.	Cat. No.	Each	Case of
1.69 oz. (50mL)	4001-0050	**10-198-52A**	40.90	12/327.62
3.38 oz. (100mL)	4001-0100	**10-198-52C**	45.05	12/359.00
8 oz. (250mL)	4001-0250	**10-198-52E**	54.31	12/434.60
16 oz. (500mL)	4001-0500	**10-198-52F**	65.42	8/348.88
32 oz. (1000mL)	4001-1000	**10-198-52G**	83.72	6/335.21

Thermo Scientific™ Nalgene™ Class B Volumetric Flasks with Screw Caps; PPCO, PP screw closure

Calibrated "To Contain" and "To Deliver" at 20°C (68°F)

- Break resistant, excellent chemical resistance
- Autoclavable; completely disengage closure before autoclaving
- Leakproof†
- Individually hand calibrated
- Permanent color graduation line, oval marking spot
- No meniscus to confuse readings
- 200mL size has additional line at 203mL level for BOD and DO determinations
- Meet tolerances in Class B Tolerances Chart
- Polypropylene screw closures

10-198-50A to -50F

COMPLIANCE:
Meet ASTM™ E 288 and ISO 384 Class B tolerances for consistent quality and dependability.

Capacity	Mfr. No.	Cat. No.	Each	Case of
1.69 oz. (50mL)	4000-0050	**10-198-50A**	40.58	12/324.98
3.38 oz. (100mL)	4000-0100	**10-198-50B**	45.75	12/356.00
6.76 oz. (200mL)	4000-0200	**10-198-50C**	48.84	12/390.29
8 oz. (250mL)	4000-0250	**10-198-50D**	53.73	12/429.86
16 oz. (500mL)	4000-0500	**10-198-50E**	64.89	8/345.70
32 oz. (1000mL)	4000-1000	**10-198-50F**	82.89	6/331.56

†***Note:*** *The leakproof tests, using other liquids, may not yield the same results. To ensure safe usage, Thermo Fisher Scientific advises customers to test Nalgene flasks and closures under conditions of their planned applications. Nalgene flasks are leakproof at ambient temperature and pressure when used with their Nalgene closures.*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimble-Chase Kimax™ Heavy-Duty Clear Glass Class A Volumetric Flasks with Glass Stoppers

Large numbers make it easy to identify volume from far away

- Wide mouth
- Heavy, uniform walls provide superior strength, durability and safety
- Large, permanent, easy-to-read markings
- Flat interior bottoms for stirring with standard stir bars
- Graduated to Class A volumetric tolerances
- Calibrated "To Contain"
- Capacity: 10 to 250mL
- Calibrated to meet ASTM™ E288

K92810W-50

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of
0.338 oz. (10mL)	13	92810W-10	**10-310-235**	6/188.15
0.676 oz. (20mL)	13	92810W-20	**10-310-236**	6/205.70
0.845 oz. (25mL)	13	92810W-25	**10-310-237**	6/202.38
1.69 oz. (50mL)	13	92810W-50	**K92810W-50**	1/45.05
3.38 oz. (100mL)	16	92810W-100	**10-212-7A**	1/54.90
8.45 oz. (250mL)	19	92812G-250	**10-212-7B**	1/72.20
0.169 oz. (5mL)	13	92812G-5	**13-756-684**	6/185.80
6.76 oz. (200mL)	19	92812G-200	**13-756-685**	6/350.50
16.9 oz. (500mL)	19	92812G-500	**13-756-686**	6/415.00
33.8 oz. (1000mL)	22	92812G-1000	**13-756-687**	1/131.30
67.6 oz. (2000mL)	27	92812G-2000	**13-756-688**	1/191.90
135.2 oz. (4000mL)	38	92812G-4000	**13-756-400**	1/400.50
202.8 oz. (6000mL)	38	92812G-6000	**13-756-401**	1/526.00

Kimble-Chase Kimax™ Class A Heavy-Duty Volumetric Flasks, Serialized and Certified

With glass stopper

Permanently marked serial number on each flasks makes it easy to track which items are used during analytical testing.

- Wide-mouth, clear glass
- Graduation ring is blasted on the neck
- Each case is supplied with one Certificate of Graduation Accuracy
- Carefully selected to meet the Class A requirements as specified in ASTM™ E288 — Standard Specification for Volumetric Flasks

Capacity	Stopper No.	Mfr. No.	Cat. No.	Case of	Case of
5mL	13	92820G-5	**13-757-401**	6	6/207.00
10mL	13	92820G-10	**13-757-402**	6	6/212.50
20mL	13	92820G-20	**13-757-403**	6	6/228.00
25mL	13	92820G-25	**13-757-404**	6	6/233.50
50mL	13	92820G-50	**13-757-405**	6	6/240.00
100mL	16	92820G-100	**13-757-406**	6	6/251.50
200mL	19	92820G-200	**13-757-407**	6	6/368.50
250mL	19	92820G-250	**13-757-408**	6	6/374.00
500mL	19	92820G-500	**13-757-409**	6	6/442.00
1000mL	22	92820G-1000	**13-757-410**	1	1/145.20
2000mL	27	92820G-2000	**13-757-411**	1	1/201.00

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Floor Mats

Fisherbrand® Adhesive Entryway Mats

General sticky mats are ideal to use in cleanrooms of electronic industry, pharmaceutical industry, hospitals, laboratories and food industries for maintaining critical clean environment

- Highly effective in dust removal ability and easy to use
- Polyethylene film coated with environment-friendly water-borne acrylic adhesive
- Dust removal: 99%
- Tensile strengh: >1.5kgf/cm2
- White

19-181-155

Size	Description	Cat. No.	Case of 4
36 × 36in.	Low Tack	**19-181-510**	201.22
18 × 45in.	Medium Tack	**19-181-550**	208.79
24 × 45in.	Medium Tack	**19-181-551**	324.37
36 × 45in.	Medium Tack	**19-181-552**	271.45
18 × 45in.	High Tack	**19-181-506**	218.76

Fisherbrand® Hard Surface Adhesive Mats

Ideal for maintaining a critical clean environment

- Ideal for use in electronic, pharmaceutical, laboratory and food industry cleanrooms
- When top sheet becomes soiled, peel it off to expose fresh, clean surface
- Reorder notification on 18th sheet
- Blue sheets on blue mat
- Highly effective in dust removal and easy to use
- Moderate Tack for standard clean needs
- High Tack for critical environment users
- Each mat has top and bottom cover sheets

19-181-519

ORDERING INFORMATION: 30 sheets per mat.

W × L	Cat. No.	Case of 4
Moderate Tack		
36 × 18" (91 × 46cm)	**19-181-519**	135.00
46 × 18" (117 × 46cm)	**19-181-554**	255.27
46 × 24" (117 × 61cm)	**19-181-555**	285.58
High Tack		
36 × 18" (91 × 46cm)	**19-181-516**	137.05
46 × 18" (117 × 46cm)	**19-181-553**	255.28

Fisherbrand® Adhesive Roll Mop

Effectively removes dirt, debris and lint

Suitable for use on many surfaces including glass, plastic, metal and cloth

- Picks up contaminants from hard-to-reach areas such as walls, ceilings, floors, benchtops, windows and corners
- Rolling mop unit with adhesive sheets connects to lightweight, 4' long (1.2m) aluminum handle — handle extends to 7' (2.1m)
- Roll is 18" wide (46cm) and contains 20 disposable, high-tack polyfoam sheets with bounce-back memory
- Perforations approximately every 14" (41cm) give easy access to fresh sheet

19-168-113

ORDERING INFORMATION: Replacement 20-sheet rolls sold separately.

INCLUDES: Four rolls and extendable handle

Description	Cat. No.	Each
Replacement Roll	**19-168-113**	68.20

ITW ALMA™ IdealMat™ Contamination Control Mats

Apply directly to floor

- Consistent adhesive coating on each layer captures particulates from foot traffic and equipment wheels
- Antimicrobial agent in coating reduces potential for spreading germs and bacteria into controlled area

19-166 Series

L × W	Color	Mfr. No.	Cat. No.	Case of
45.7 × 91.4cm	Blue	AMA183681B	**19-166-849**	8/186.49
45.7 × 91.4cm	White	AMA183681W	**19-166-850**	8/177.59
45.7 × 91.4cm	Gray	AMA183681G	**19-166-851**	8/186.49
45.7 × 116.8cm	Gray	AMA184681G	**19-166-951**	8/183.20
61 × 114.3cm	Blue	AMA254581B	**19-166-867**	8/267.00
61 × 114.3cm	White	AMA254581W	**19-166-868**	8/267.00
91.4 × 116.8cm	Blue	AMA364681B	**19-166-873**	8/354.46
91.4 × 116.8cm	White	AMA364681W	**19-166-874**	8/354.46
91.4 × 116.8cm	Gray	AMA364681G	**19-166-875**	8/354.46
45.7 × 91.4cm	Blue	AMA183682B	**19-166-852**	4/164.39
45.7 × 91.4cm	White	AMA183682W	**19-166-853**	4/164.39
45.7 × 91.4cm	Gray	AMA183682G	**19-166-854**	4/164.39
61 × 91.4cm	Blue	AMA243682B	**19-166-864**	8/296.15
63.5 × 114.3cm	Blue	AMA254582B	**19-166-870**	4/237.20
63.5 × 114.3cm	White	AMA254582W	**19-166-871**	4/237.33
63.5 × 114.3cm	Gray	AMA254582G	**19-166-872**	4/237.25
91.4 × 116.8cm	Blue	AMA364682B	**19-166-876**	4/338.61
91.4 × 116.8cm	White	AMA364682W	**19-166-877**	4/338.83
91.4 × 116.8cm	Gray	AMA364682G	**19-166-878**	4/318.66

Flowmeters

Thermo Scientific™ Barnant™ Gilmont Shielded Laboratory Calibrated/Correlated Flowmeters

Accurate to ±2% of the reading or ±1 scale division. Repeatability: ±1% of reading or ±0.5 scale division, whichever is greater. Max. Temperature: 65°C (150°F) at full pressure rating.

INCLUDES:
Calibration table for air and water and comes with glass and stainless-steel floats.

NOTES:
For micro flowmeter, accuracy is ±5% of reading or ±2 scale division for air and ±10% of reading or ±3 scale division for water.

Tube Size	Float	Flowrate (mL/min.) Air	Water	Max. psi	Mfr. No.	Cat. No.	Each
L × O.D.: 8 × 1" (20 × 3cm)							
Micro	Ruby	0.02–15	0.0002–0.12	125	GF 3060	**15-078-103**	319.50
L × O.D.: 10.25 × 1" (26 × 3cm)							
0	Glass	0.2–100	0.002–1.1	125	GF 1060	**15-078-106**	406.00
	316 SS	0.36–180	0.004–2.3				
1	Glass	1–280	0.01–4.0	125	GF 1160	**15-078-109**	337.50
	316 SS	2–500	0.02–8.6				
2	Glass	10–1900	0.2–36	100	GF 1260	**15-078-112**	405.50
	316 SS	20–3400	0.4–77				
3	Glass	200–14,000	3–300	75	GF 1360	**15-078-115**	405.50
	316 SS	360–25,000	6–640				

ON THE WEB...

Looking for more Flowmeters?

Visit www.fishersci.com and search for Flowmeters

Thermo Scientific™ Barnant™ Gilmont™ Shielded Laboratory Direct-Reading Flowmeters

Take direct air and water readings without calibration curves. Accuracy: ±5% of reading or ±2mm of the scale length (whichever is greater). Repeatability: ±1% of reading or ±0.5 scale division, whichever is greater. Max. Temperature: 65°C (150°F) at full pressure rating.

- Made from corrosion-resistant materials
- Clear polycarbonate shield offers added strength and protection; ideal for pressure applications
- Fluid touches only borosilicate glass tube, PTFE inserts, DuPont™ Viton™ fluoroelastomer O-rings and either stainless-steel or glass floats
- Accept 3/8" (9.5mm) I.D. tubing
- Inserts accept flexible hose; polypropylene bushings are threaded to accept NPTF fittings

INCLUDES:
An "R factor" chart (or use GF-4000 software formulas to convert scale readings for other fluids or for floats other than glass).

Tube Size	Float	Flowrate (mL/min.) Air	Water	Max. psi	Mfr. No.	Cat. No.	Each
10	Glass	0.2–90	0.002–1.1	125	GF 2060	**15-078-124**	282.00
11	Glass	1–280	0.01–4.0	125	GF 2160	**15-078-126**	267.00
12	Glass	20–2100	0.4–40	100	GF 2260	**15-078-128**	255.00
13	Glass	200–14,000	2–300	75	GF 2360	**15-078-130**	260.00

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Forceps

Dissecting and General Purpose

Fisherbrand® Dissecting Forceps

13-812-42

08-953E (top), 08-953F

08-890, 08-887

08-880 (top), 08-875

13-812-39, 13-812-40

Tip Style	Handle Type	Guide Pin	Length	Cat. No.	Each	Pack of
Extra-Fine-Pointed Splinter, Stainless Steel						
Straight, Serrated	Corrugated	No	4.5" (114mm)	**13-812-42**	32.95	4/108.20
Fine-Pointed, Nickel-Plated Steel						
Curved, Serrated	Corrugated	Yes	4.5" (114mm)	**08-875**	19.51	12/192.30
Straight, Serrated	Corrugated	Yes	4.5" (114mm)	**08-880**	20.36	12/201.00
Jeweler's Microforceps, Stainless Steel						
Straight, Smooth	Smooth	No	4.5" (114mm)	**08-953E**	53.10	----
Curved, Smooth	Smooth	No	4.5" (114mm)	**08-953F**	77.10	----
Blunt-Pointed						
Straight, Serrated, Chrome-Plated Steel	Corrugated	No	5" (127mm)	**08-890**	19.25	10/154.30
Curved, Smooth, Nickel-Plated Steel	Corrugated	Yes	5" (127mm)	**08-887**	16.99	12/163.40
Dressing, Stainless Steel						
Straight, Serrated	Corrugated	No	4.5" (114mm)	**13-812-39**	15.98	12/153.60
Straight, Serrated	Corrugated	No	6" (152mm)	**13-812-40**	18.22	12/175.20

Fisherbrand® General-Purpose Forceps

10-270

10-316A, 10-316B, 10-316C

10-280

10-300

10-275

Tip Style	Handle Type	Guide Pin	Length	Cat. No.	Each	Pack of
Pinning, Nickel-Plated Steel						
Curved, Serrated	Corrugated	No	4.5" (114mm)	**10-270**	13.59	12/130.60
Broad-Tipped, Nickel-Plated Steel						
Straight, Smooth	Corrugated	No	4.5" (114mm)	**10-300**	10.93	10/87.80
Extra-Long, Chrome-Plated Steel						
Straight, Serrated	Corrugated	Yes	7.87" (20cm)	**10-316A**	32.13	12/317.00
Straight, Serrated	Corrugated	Yes	9.87" (25.1cm)	**10-316B**	40.65	12/401.00
Straight, Serrated	Corrugated	Yes	11.81" (30cm)	**10-316C**	44.52	12/439.00
Standard, Stainless Steel						
Curved, Smooth	Smooth	No	5.87" (150mm)	**10-275**	22.13	12/218.50
Student, Stainless Steel						
Straight, Serrated	Smooth	No	5" (127mm)	**10-280**	----	10/38.25

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Freeze Dry

Labconco™ Benchtop FreeZone™ Freeze-Dry Systems

With a small footprint and four rubber feet, these smaller capacity models fit easily on benchtop and are ideal for light and moderate loads

- Refrigeration system cools collector to -50°C (-58°F)
- 4.5L model has stainless-steel drying chamber with 10 valves to connect serum bottles, ampules, or freeze-dry flasks with 0.5 to 0.75" adapters (available separately)
- Stoppering Tray Dryer option on 6L model allows bulk processing of large batches of material in small containers or large specimens
- PTFE-coated collector chamber and coil for processes involving corrosive compounds are available
- Upright collector chamber simplifies defrosting; many models include built-in hot gas defrost to quickly melt any collected ice
- Automatic one-button startup initiates condenser cooldown and vacuum pulldown
- LCD indicates temperature in °C or °F; vacuum in mbar, Pa and torr
- LED vacuum and temperature "waves," on all except 1L models, show relative system vacuum and collector temperature LED alarm light, on all except 1L models, flashes for abnormal events, including power interruptions, improper power supply, when collector temperature rises above -40°C and required vacuum pump service
- Vacuum control valve, on all except 1L systems, maintains vacuum level

Connectivity

- RS-232 port, on all models except 1L, can be used to transmit data to a computer

Features

- Easy to service with retractable drain hoses
- Cabinets are white powder-coated steel with brushed stainless-steel front panels and blue accents
- Benchtop models easily fit on laboratory benchtop to process light to moderate loads
- PTFE-coated collector chamber and coil for processes involving corrosive compounds are available

ORDERING INFORMATION: International models are also available. Contact your Fisher Scientific Customer Service Representative for pump compatibility.

INCLUDES: 8' (2.4m) cord. Models wired for 115V, 60Hz include 3-wire cord with 20A NEMA 5-20P plug.

REQUIRES: Drying chambers or other drying accessories, vacuum pumps and glassware. All models except 4.5L models require drying accessories (4.5L models come with permanently installed 10-port stainless-steel drying chamber for bulk sample connection).

10030126 with 12-port Drying Chamber 10-273-19 (sold separately)

Capacity	Description	Cat. No.	Each
1L	Basic Unit	**10030126**	6079.20
1L	With PTFE-coated Collector Chamber	**10030127**	6869.70
2.5L	Basic Unit	**10030132**	7119.60
2.5L	With PTFE-coated Collector Chamber	**10030133**	8154.90
4.5L	Basic Unit	**1027110**†	10,880.00
4.5L	With PTFE-coated Collector Chamber	**1027111**†	11,959.50
6L	Basic Unit	**10-271-22**	11,388.30
6L	With PTFE-coated Collector Chamber	**1027123**‡	12,571.50

† For 4.5L models, overall dimensions include Drying Chamber.
‡ Stoppering Tray Dryer adds 27 1/16" (68.7cm) to overall height of system and is 32" wide (81.3cm).

Labconco™ FreeZone Plus™ 4.5L Benchtop Freeze-Dry System

Designed for light aqueous sample loads with low eutectic points

- Capable of removing up to 2L (0.5 gal.) of water in 24 hours; holds 4.5L (1.2 gal.) of ice before defrosting
- Collector temperature: -84°C (-119°F)
- Automatic start-up switch for collector cool-down and vacuum pull-down with manual override switches
- LCD display
- Set-up parameters and alarm messages (choice of °C and °F)
- Choice of vacuum in mBar, Pa and Torr
- Dual 1/3hp CFC-free refrigeration systems
- Red alarm light
- LED vacuum and temperature wave graphs
- Patented moisture sensor
- Vacuum control/break valve
- Retractable collector drain line
- Power switch
- Rear-mounted electrical receptacle for vacuum pump connection (pump not included)
- Rear-mounted RS-232 port
- Brushed stainless-steel and epoxy-coated steel exterior

ORDERING INFORMATION: Overall L × W × H (without drying chamber): 24.2 × 22.5 × 15.0" (61.5 × 57.2 × 38.1cm), 220/240V 50Hz, 5.5 A

INCLUDES: 12-port stainless-steel drying chamber, 0.75" (1.9cm) O.D. vacuum connection, 0.75" (1.9cm) vacuum hose, two clamps

REQUIRES: 86L/min. or larger displacement vacuum pump.

CERTIFICATIONS: CE marked.

16-108-500

Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 60Hz, 11A	7386020	**16-108-500**	13,912.80
With PTFE-coated Collector			
115V 60Hz, 11A	7386021	**16-108-501**	15,116.40

Labconco™ Cascade FreeZone Plus™ Freeze-Dry Systems

Designed to freeze dry materials with low-eutectic points

- With dual CFC-/HCFC-free refrigeration systems used in series to cool stainless-steel collector to -84°C (-119°F)
- Choice of 2.5L models to fit on benchtop; or freestanding 2.5, 6 and 12L console models
- Purge Valve option on 6 and 12L models prevents backstreaming of vacuum pump oil and minimizes chance for sample contamination
- Available with optional collector chamber and coil coated with PTFE for processes involving corrosive compounds
- Upright collector chamber simplifies defrosting; many models include built-in hot gas defrost to quickly melt any collected ice
- Automatic one-button startup initiates condenser cooldown and vacuum pulldown
- LCD indicates temperature in °C or °F; vacuum in mbar, Pa and torr
- LED vacuum and temperature "waves," on all except 1L models, show relative system vacuum and collector temperature
- LED alarm light, flashes for abnormal events, including power interruptions, improper power supply, when collector temperature rises above -40°C and required vacuum pump service
- Vacuum control valve, maintains vacuum level

Connectivity

- RS-232 port can be used to transmit data to a computer

Features

- Easy to service with retractable drain hoses
- Cabinets are white powder-coated steel with brushed stainless-steel front panels and blue accents
- Console models have removable front panels and are roomy enough to accommodate vacuum pump
- Benchtop models easily fit on laboratory benchtop to process light to moderate loads
- PTFE-coated collector chamber and coil for processes involving corrosive compounds are available

ORDERING INFORMATION:
International models also available. Contact your Fisher Scientific Customer Service Representative for pump compatibility.

INCLUDES:
8' (2.4m) cord. Models wired for 115V, 60Hz include 3-wire cord with 20A NEMA 5-20P plug.

10030138 and 20-port Manifold 10-273-14 (pump not included)

REQUIRES:
Drying chamber or other drying accessory is required for operation. All models require drying accessories.

Description	Capacity	Electrical Requirements	L × W × H	Mfr. No.	Cat. No.	Each
Basic Unit	2.5L ($2^5/_8$ qt.)	115V 60Hz	59 × 36.8 × 42.4cm ($23^1/_4 \times 14^1/_2 \times 16^3/_4$")	7670020	**10030138**	11,704.50
Basic Unit	2.5L ($2^5/_8$ qt.)	115V 60Hz	59 × 45.7 × 92.6cm ($23^1/_4 \times 18 \times 36^3/_8$")	7420020	**10030144**	12,170.50
Basic Unit	6L (6 qt.)	115V 60Hz	71 × 81 × 93cm ($28 \times 31^7/_8 \times 36^1/_2$")	7934020	**10-271-52**	13,836.30
Basic Unit	12L (13 qt.)	230V 60Hz	71 × 81 × 93cm ($28 \times 31^7/_8 \times 36^1/_2$")	7960040	**10-271-88**	19,160.70
With PTFE-coated Collector Chamber	6L (6 qt.)	115V 60Hz	71 × 81 × 93cm ($28 \times 31^7/_8 \times 36^1/_2$")	7934021	**1027153**	15,034.80
With PTFE-coated Collector and Coil	2.5L ($2^5/_8$ qt.)	115V 60Hz	59 × 36.8 × 42.4cm ($23^1/_4 \times 14^1/_2 \times 16^3/_4$")	7670021	**10030139**	12,627.60
With PTFE-coated Collector and Coil	2.5L ($2^5/_8$ qt.)	115V 60Hz	59 × 45.7 × 92.6cm ($23^1/_4 \times 18 \times 36^3/_8$")	7420021	**10030145**	13,219.20
With Purge Valve	12L (13 qt.)	208/230V 60Hz	71 × 81 × 93cm ($28 \times 31^7/_8 \times 36^1/_2$")	7960042	**1027190**	19,900.00
With Purge Valve and PTFE-coated Collector Chamber	6L (6 qt.)	115V 60Hz	71 × 81 × 93cm ($28 \times 31^7/_8 \times 36^1/_2$")	7934024	**1027155**	16,172.10
With Purge Valve and PTFE-coated Collector Chamber	12L (13 qt.)	208/230V 60Hz	71 × 81 × 93cm ($28 \times 31^7/_8 \times 36^1/_2$")	7960044	**1027191**	22,018.24

Fisher Scientific

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Prices subject to change.

Labconco™ Console FreeZone™ Freeze-Dry Systems

Available in several system configurations and collector capacities to meet sample load requirements

- Cabinets are white powder-coated steel with brushed stainless-steel front panels and are mounted on 3" (7.6cm) casters for mobility
- Refrigeration system cools collector to -50°C (-58°F)
- Purge Valve option with switch prevents back streaming of vacuum pump oil and minimizes chance for sample contamination of power if interrupted
- Upright collector chamber simplifies defrosting; many models include built-in hot gas defrost to quickly melt any collected ice
- Automatic one-button startup initiates condenser cooldown and vacuum pulldown
- LCD indicates temperature in °C or °F; vacuum in mbar, Pa and torr
- LED vacuum and temperature "waves", show relative system vacuum and collector temperature
- LED alarm light flashes for abnormal events, including power interruptions, improper power supply, when collector temperature rises above -40°C and required vacuum pump service
- Vacuum control valve maintains vacuum level

Connectivity

- RS-232 port can be used to transmit data to a computer

Features

- Easy to service with retractable drain hoses
- Cabinets are white powder-coated steel with brushed stainless-steel front panels and blue accents
- Console models have removable front panels and are roomy enough to accommodate vacuum pump
- PTFE-coated collector chamber and coil for processes involving corrosive compounds are available
- 4.5L model comes with permanently installed 10-port stainless-steel drying chamber for bulk sample connection
- 6L models available with optional built-in shell freezer with stainless-steel bath, 12.5L × 5.5W × 7.5"H (30.5 × 14 × 19cm) for easier prefreezing

ORDERING INFORMATION:
All models are also available with PTFE-coated collector chambers and with internal electrical configurations; contact your Fisher Scientific Customer Service Representative for details.

INCLUDES:
8' (2.4m) cord. Models wired for 115V, 60Hz include 3-wire cord with 20A NEMA 5-20P plug.

REQUIRES:
Drying chambers or other drying accessories, vacuum pumps and glassware. All models except 4.5L models require drying accessories (4.5L models come with permanently installed 10-port stainless-steel drying chamber for bulk sample connection.)

Basic 4.5L Model with 10-273-19 Drying Chamber (sold separately)

Capacity	Description	Motor	Size	Shipping Weight	Mfr. No.	Cat. No.	Each
5 qt. (4.5L)	Basic Unit	1/3	Light-to-moderate	122 lb.55kg	7751020	**10-271-16**†	11,231.20
5 qt. (4.5L)	With PTFE-coated Collector Chamber	1/3	Light-to-moderate	122 lb.55kg	7751021	**10-271-17**	12,540.90
6 qt. (6L)	Basic Unit	3/4	Moderate	300 lb.136kg	7753020	**10-271-28**	12,005.40
6 qt. (6L)	With Purge Valve and PTFE-coated Collector Chamber	3/4	Moderate	300 lb.136kg	7753024	**10-271-31**	14,205.65
13 qt. (12L)	Basic Unit	1	Variety	320 lb.145kg	7754040	**10-271-76**	16,615.80
19 qt. (18L)	Basic Unit	1 1/2	Large/Multiple Batch	345 lb.156kg	7755040	**10-272-00**	20,920.00

†For 4.5L Model, overall dimensions include Drying Chamber.

ON THE WEB...

For Labconco's complete Freeze Dry line and for information on Drying Chambers, Flasks, Traps and Adapters

Visit www.fishersci.com and search for Freeze Dry

Labconco™ FreeZone™ Console Freeze Dry System, 12 Liters

Designed for moderate aqueous sample loads

- Removes maximum of 8 liters of water in 24 hours
- Upright stainless-steel collector coil
- CFC-free refrigeration system to cool collector to -50°C (-58°F)
- Corrosion-resistant glacier white epoxy-coated steel and brushed stainless steel exterior with blue accents
- LCD for display of system operating parameters, set up parameters and alarm messages
- Automatic start-up switch for collector cool down and vacuum pull down with manual override switches
- Retractable, 9" collector drain line
- Power switch and rear-mounted electrical receptacle (for vacuum pump connection)
- Features 0.75" (1.9cm) O.D. vacuum connection, three feet of 0.75" (1.9cm) I.D. vacuum hose and two clamps
- Purge valve with switch available
- Stoppering tray dryer with three shelves for holding serum bottles or vials
- Microprocessor-controlled temperature ramp and hold programming from -40°C to +40°C
- Memory stores five programs and repetition of identical protocols
- Control panel with operating switches, stoppering control knob, vacuum release valve control knob
- Red LED alarm indicator
- Hot gas defrost and switch

COMPLIANCE:
CE compliant

10-269-101

Capacity	Mfr No.	Cat. No.	Each
12L	7759062	**10-269-101**	41,270.00

Labconco™ FreeZone™ Triad™ Freeze-Dry Systems

All-in-one benchtop cascade lyophilizer and stoppering tray dryer

Four sample valves increase capacity and flexibility — allow connection of flasks and other glassware, which can be lyophilized simultaneously. Automatic temperature control enhances consistency and convenience of repetitive protocols. Chamber prefreezes samples to save money and time, eliminating the need for a separate freezer and product transfer. Vacuum control/break valve maintains setpoint vacuum level to speed the process.

Performance

- Microprocessor controls up to five different temperature programs, plus up to five ramping and holding segments
- Sensor probe digitally monitors sample temperature
- Hot gas defrost shuts off automatically when refrigerant reaches 60°C or after 3 hours; allows for easy cleanup of up to 1.8L of water/2.5L of ice
- Two 1/3hp CFC-free and HCFC-free refrigeration systems cool the collector to -85°C (-121°F)
- Built-in pneumatic stoppering mechanism on processing shelf does not require compressed gas
- Shelf (12.4W × 14.5" D) accommodates glassware from 31 to 148mm
- Circulating fluid in processing shelf can be set to a pre-freeze temperature of -75°C (-103°F) or between -55° to +50°C (-67° to +122°F) with ±1°C stability
- Refrigeration system and 1000w heater efficiently cool and heat processing shelf

Control Panel

- Run/Stop, Mode, Enter, UP arrow, DOWN arrow, Vacuum, Defrost and Display switches Green indicator lights for Run/Stop, Automatic and Manual modes; Set Up, Automatic, Monitor and Manual display
- Red LED Alarm indicator; Stoppering control knob; Vacuum release valve control knob
- LCD displays shelf, sample and collector temperature in °C or °F, vacuum in mBar, Pa or Torr; in Automatic mode, also displays program selected, present ramping or holding segment, time remaining in present segment and end of program

Construction

- Brushed stainless and glacier white epoxy-coated steel exterior
- Large 1" thick acrylic door provides complete visibility of the processing shelf
- Stainless-steel collector drain pan and hose catches defrosted condensate; removes easily for cleaning
- Rear-mounted RS-232 port and electrical receptacle for vacuum pump (required for operation, available separately)
- 0.125" O.D. backfill port

10-030-170

ORDERING INFORMATION:
Overall L × W × H: 29.5 × 28.5 × 28" (74.9 × 72.4 × 71.1cm). Shipping weight: 450 lb. (204kg).

REQUIRES:
Vacuum pump with a displacement of at least 144LPM, 0.002mBar ultimate pressure, reverse IEC plug, and fitting suitable for 3/4" I.D. vacuum hose.

NOTES:
Freeze-dry glassware if not bulk freeze drying

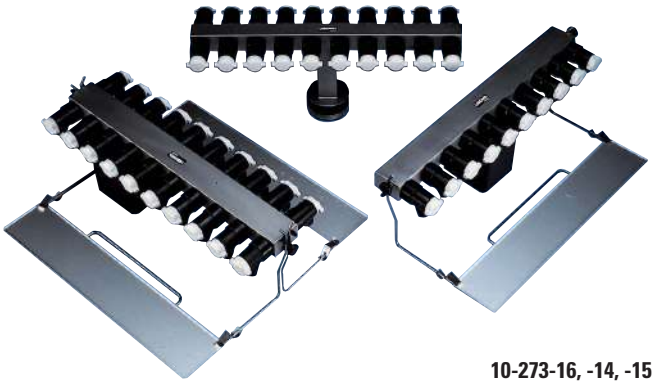
CERTIFICATIONS:
CE marked

Electrical Requirements	Mfr. No.	Cat. No.	Each
230V 60Hz, 12.0A	7400040	**10-030-170**	29,050.00
230V 50Hz, 12.0A	7400030	**10-030-171**	28,180.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Labconco™ Freeze-Dry System Manifolds



10-273-16, -14, -15

Four-Port Manifold

- Four valves accommodate both 0.5 or 0.75" adapters
- For use with FreeZone™ 1, 2.5 and 4.5L Freeze-Dry Systems
- Dimensions: 8.75L × 8.75W × 9"H (22.1 × 22.1 × 22.9cm)
- Attachment Port Lid Accessory required for connection to 4.5L System (sold separately)

20-Port Manifold

- 20 neoprene valves that accommodate both 0.5 or 0.75" adapters
- For use with all FreeZone Freeze-Dry Systems
- Dimensions: 5L × 19W × 9"H (13 × 48 × 23cm)
- Attachment Port Lid Accessory required for connection to 4.5L System (sold separately)

10-Port Manifold with Support Shelf

- 10 neoprene valves accommodate both 0.5 or 0.75" adapters and adjustable support shelf
- For use with FreeZone 6, 12 and 18L Freeze-Dry Systems
- Dimensions: 6.62L × 26W × 10"H (17 × 66 × 25cm)

20-Port Manifold with Support Shelves

- 20 neoprene valves accommodate both 0.5 or 0.75" adapters and two adjustable support shelves
- For use with FreeZone 6, 12 and 18L Freeze Dry Systems
- Dimensions: 9.5L × 26W × 10"H (24 × 66 × 25cm)

Description	Mfr. No.	Cat. No.	Each
4-Port Manifold	7522200	**10-030-157**	769.78
20-Port Manifold	7522300	**10-273-14**	2595.00
10-Port Manifold with Support Shelf	7522400	**10-273-15**	2200.00
20-Port Manifold with Support Shelves	7522500	**10-273-16**	3823.17

Labconco™ FreeZone™ Benchtop Shell Freezer

Compact system for prefreezing samples for lyophilization

16-317-95

- 1/2hp refrigeration system prefreezes samples to -40°C
- Stainless-steel bath with two rollers to rotate flasks in low-temperature heat transfer solution; produces a uniform thin coating of sample on container interior wall, ensuring efficient vapor flow from sample to collector during lyophilization
- Accepts Fast-Freeze™ Flasks up to 1200mL in size
- Does not contain ozone-depleting chlorofluorocarbons (CFCs)
- LED display of bath temperature from -20° to -42°C in predetermined increments
- Left-mounted retractable bath hose facilitates cleaning of bath
- Fits on countertop or lab cart

Cabinet Features

- White powder-coated steel with a brushed stainless-steel front with blue accents
- Dimensions: 22.1L × 15.1W × 19.7"H (56.1 x 38.4 x 50.0cm)

Bath Features

- Stainless-steel with urethane foam insulation and white HDPE cover
- Dimensions: 12D × 51/2W × 61/2"H (30.5 × 14 × 16.5cm)

INCLUDES:
8' (2.4m) three-wire cord and plug

REQUIRES:
2L of transfer solution (not included)

COMPLIANCE:
ETL listed to UL standards, CAN/CSA.

Electrical Reqts.	Mfr. No.	Cat. No.	Each
115V 60Hz, 6A	7949020	**16-317-95**	4960.00

Labconco™ FreeZone™ Bulk Tray Dryers

For use with 6, 12, or 18L FreeZone Freeze-Dry Systems

16-317-92

Unique Shelf-heating System

- Three 16.625L × 12.75"W (42.2 × 32.2cm) shelves, each with 210 sq. in. of space, accommodate bulk samples or batches of serum bottles, vials or ampules (two additional shelves [order separately] can be added as needed)
- Microprocessor-controlled 200w heater on each shelf ensures efficient heating, up to +60°C, within 3°C of setpoint
- Three sensor probes monitor sample or shelf temperature; can add two more sensors for a total of five (sensors sold separately)

User-friendly Operation

- LCD display of setpoint and temperature of each shelf and indicates RUN (R) or STOP (S) modes
- Vacuum release valve vents chamber to open door after drying
- Rear-mounted RS-232 cable connection to IBM™-compatible computer; use connection to monitor parameters: shelf setpoint temperature, actual shelf temperature, run time and operating status

Exterior Features

- Clear 1" (2.5cm) thick acrylic viewing door
- Cabinet is white powder-coated steel with a brushed stainless-steel front with blue accents
- Integral support stand
- Six-port manifold is included in 16-317-92; accommodates either 0.50 or 0.75" flask adapters to allow connection of flasks and freeze dry glassware so that samples attached to manifold and in Tray Dryer may be lyophilized simultaneously

ORDERING INFORMATION:
Dimensions: 21.5L × 32W × 27 1/8"H (55 × 81 × 69cm)

NOTES: Freeze dry glassware if not bulk freeze drying

COMPLIANCE:
ETL listed to UL standards, CAN/CSA.

Description	Electrical Reqts.	Mfr. No.	Cat. No.	Each
FreeZone Bulk Tray Dryer	115V 60Hz, 8A	7806020	**16-317-91**	12,286.65
FreeZone Bulk Tray Dryer with 6-port Manifold	115V 60Hz, 8A	7806021	**16-317-92**	13,861.80

Labconco™ Stoppering Tray Dryers for FreeZone™ Freeze-Dry Systems

Use with any 6, 12 or 18L FreeZone freeze-drying system to lyophilize and bulk stopper samples under vacuum

10-274-50

Features

- Built-in pneumatic mechanism for stoppering
- Front panel LCD displays system chamber vacuum in mbar, Pa or torr and system and probe temperatures in °C or °F; warning lights alert to power failure, temperature fluctuations or vacuum decay
- Three processing shelves accommodate serum bottles, vials or ampules; remove one or two shelves to allow for containers of various heights (samples may be pre-frozen on these shelves)
- Three probes monitor sample temperature
- Cabinet is constructed of brushed stainless-steel and white powder-coated steel with blue accents; with clear 3/4" (1.9cm) thick acrylic viewing door
- Support stand
- 1/8" (0.3cm) backfill port

Microprocessor Control

- Temperature programmable up to five different segments; also includes temperature ramp
- Built-in memory allows repetition of identical protocols
- Automatic and manual modes for setting system parameters 3" (7.6cm) diameter outlet on bottom of cabinet allows dryer to be connected to FreeZone systems
- Rear-mounted RS-232 port enables communication of the tray dryer with the system
- 1hp CFC-free refrigeration system and 1000w heater for shelf cooling and heating
- Temperature of fluid circulating through channels in the shelves can be set from -40° to +40°C within ±1°C of setpoint

INCLUDES: 8' (2.4m) 3-wire cord with plug

REQUIRES: Vacuum pump with 144L/min. or higher displacement.

NOTES: Freeze dry glassware if not bulk freeze drying.

COMPLIANCE: ETL listed to UL standards, CAN/CSA.

Specifications	
Overall Cabinet Dimensions (L × W × H)	32 × 24 5/8 × 27 1/8" (81.3 × 62.4 × 68.8cm)
Shelf Dimensions (L × W)	16 1/2 × 12" (41.9 × 30.5cm)
Shelf Capacity	196 sq. in. (0.13m²) for each shelf

Electrical Reqts.	Mfr. No.	Cat. No.	Each
115V 60Hz, 16A	7948020	**10-274-50**	24,976.99

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fume Hoods and Enclosures

Fume Hoods

Labconco™ Protector Premier™ Laboratory Hoods

Suitable for general chemistry applications

10-369-117, 10-369-129, 10-369-134

Incorporate a sleek interior with a molded one-piece fiberglass liner.

- Specially formulated, fiberglass-reinforced polyester offers corrosion, fire resistance and easy clean up
- Incorporate many containment-enhancing features including Clean-Sweep™ technology and Eco-Foil™ air foil
- Testing confirms the Protector Premier Hood meets the SEFA-1 standard of a low velocity, high performance hood and may be operated as low as 60fpm
- Cord-Keeper™ slots on left and right side of air foil
- Corrosion-resistant glacier white powder-coated steel exterior
- Tempered safety glass vertical-rising sash with powder-coated sash handle
- Removable front and side panels, and front service access panels
- Offered for use with a remotely located blower or with a built-in blower
- 7.5" (95.3 cm) high sightline from the work surface to header panel
- Pre-wired T8 fluorescent lighting with vapor-proof design
- Molded fiberglass 12.81" I.D. exhaust connection

COMPLIANCE: ANSI™ Z9.5, ASHRAE™ 110, ASTM™ E84, CAN/CSA C22.2, CE, NFPA 45, SEFA 1, UL compliant.

4' Protector Premier Laboratory Hoods

Description	Electrical Requirements	Mfr. No.	Cat. No.	Price
Two Services and Duplex, No Blower	115V	100400002	**10-369-117**	8213.21

5' Protector Premier Laboratory Hoods

Description	Electrical Requirements	Mfr. No.	Cat. No.	Price
No Services, With Blower	115V	100500040	**10-369-129**	10,602.88
Two Services and Duplex, With Blower	115V	100500042	**10-369-130**	11,558.75

6' Protector Premier Laboratory Hoods

Description	Electrical Requirements	Mfr. No.	Cat. No.	Price
No Services, No Blower	115V	100600000	**10-369-134**	8741.55
Two Services and Duplex, No Blower	115V	100600002	**10-369-135**	9670.75

Labconco™ Protector™ XVS Ventilation Stations

An economical alternative to large, heavy-duty fume hoods

10-304-29

Compact, ventilated work enclosures can be used as light-duty fume hoods, science classroom workstations, solvent cleaning work bays, weighing stations or for pathology and cytology. Low-profile enclosure protects user by containing powders and fumes during light-duty, fume-generating or weighing procedures.

- Clean-Sweep™ airfoil sweeps the work surface for maximum containment
- Upper containment sash foil bleeds air into the enclosure to direct contaminants away from operator area
- Upper dilution air supply introduces room air at the top of sash to dilute upper chamber concentrations
- Rear baffle with perforation zones promotes horizontal laminar flow
- Side-entry airfoils allow air to sweep across interior surfaces
- 2 × 10" (5 × 25.4cm) rectangular exhaust collars on top and bottom allow connection to ductwork for exhausting to the outside or to a FilterMate™ Portable Exhauster (10-304-31, -33, -35, -37) for filtered removal of powders, particulates or fumes
- 0.25" (6.4mm) tempered safety glass sash
- 22.75" high model: Hinged, 20° angled sash with 8" (20.3cm) opening; swings up to provide 20" (50.8cm) opening
- 32" high model: Hinged, 14° angled sash with 10" (25.4cm) opening; swings up to provide 29.25" (74.3cm) opening
- 23"D (58.4cm) interior work space
- Two utility ports for tubing and electrical cord connection to services
- Glacier white and gray, dry powder-coated aluminum frame and steel rear plenum and baffle
- 0.188" thick (4.8mm) tempered safety glass top and sides

REQUIRES: Connection to a remote blower or FilterMate Portable Exhauster (10-304-31, -33, -35, -37); work surface; supporting base

WARRANTY: One year against defects in materials and workmanship

COMPLIANCE: ASHRAE™ 110-95 (Method of Testing Performance of Laboratory Fume Hoods), SEFA 1-2002 (Laboratory Fume Hoods), ANSI™ Z9.5-1993 (Laboratory Ventilation)

ALERTS: Not for radioisotope, perchloric acid or acid digestion use.

Height	Width	Mfr. No.	Cat. No.	Each
22 3/4" (57.8cm)	24" (61cm)	4862010	**10-304-25**	2400.01
22 3/4" (57.8cm)	36" (91cm)	4863010	**10-304-27**	3252.31
22 3/4" (57.8cm)	48" (122cm)	4864010	**10-304-29**	4798.37
32" (81.3cm)	36" (91cm)	4863030	**10-304-28**	4658.85
32" (81.3cm)	48" (122cm)	4864030	**10-304-30**	5364.73

Labconco™ Protector™ Workstations

Designed for pathologists and histotechnologists

- Hinged sash of 0.25" thick (6.3mm) safety glass provides 8" (20.3cm) work opening and swings up to 20" (50.8cm) for loading or cleaning
- Foil with Clean-Sweep™ openings directs air for efficient fume removal
- Baffled, stainless-steel rear baffle captures fumes and houses filters (when applicable)
- 30w fluorescent lighting
- Side walls are 0.25" thick (6.3mm) safety glass

With Built-in Blower

- Exhaust volume 150 to 250cfm (60 to 1000fpm face velocity)
- Blower speed control
- Designed for use with two carbon filters (not included)

Without Blower

- Returns clean, filtered air back into room when connected to a FilterMate™ portable exhauster
- Can also be connected to an external duct sytem with a remote blower
- 2L × 10"W (5.1 × 25.4cm) exhaust openings on top and bottom for FilterMate Portable Exhauster or connection to duct system

ORDERING INFORMATION:
Dimensions: 29D × 48W × 25.7"H (73.7 × 121.9 × 65.3cm).
For 115V 60Hz, 10A.

REQUIRES:
Models with built-in blower require carbon filters (16-108-303 or 16-108-304, available separately).
Models without built-in blower require remote blower (static pressure loss 0.06–0.16").

16-108-295 with optional sink

Description	Shipping Weight	Mfr. No.	Cat. No.	Each
With Built-in Blower	120 lb. (54kg)	3930000	**16-108-294**	8200.03
Without Built-in Blower	100 lb. (45kg)	3930001	**16-108-295**	5492.56

Labconco™ Basic™ Laboratory Hoods

Ideal for rooms with ceilings below eight feet and shallow countertops

- Exhaust volumes of 720 or 1120cfm (0.25 or 0.57"H_2O), depending on hood width
- 10.38" (26.2cm) O.D. duct collar for connection to exhaust system with two-piece adjustable baffle to direct airflow
- Removable curved air foil and front panel for easy cleaning
- Vertical-rising 3/16" thick (0.48cm) tempered glass counter-balanced sash 25" (63.5cm) deep working area
- Switches for blower and vaporproof incandescent light included on nonexplosion-proof models
- Right-side fixture panel is factory prepared to accept up to three service fixtures, one duplex electrical receptacle and airflow monitor (sold separately)
- Right-interior wall is factory-prepared for one cupsink with turret (sold separately)
- Durable glacier white powder-coated 16-gauge steel exterior and interior

Explosion-Proof Models

- With incandescent lighting fixture (order bulb separately)
- Without switches and wiring to permit conformity to local codes

ORDERING INFORMATION:
Exterior L × H: 25 × 48" (64 × 122cm). Add 5" (12.7cm) to height for models with built-in blower. Available with or without blower. Blower may be mounted in hood liner, above hood or at remote roof location. Unassembled models fit into carton less than 50% size of fully assembled hoods.

Labconco Basic Laboratory Hood

COMPLIANCE:
SEFA 1-2002, NFPA 45-2000, ASTM™ E84-01, ASHRAE™ 110-95, ANSI™ Z9.5-1993, UL 3101-1/61010-1, CAN/CSA C22.2 No. 1010.1

CERTIFICATIONS: ETL listed.

Width	Total Exhaust Volume/Static Pressure Loss at 100fpm	Blower	Lighting	Electrical Requirements	Fully Assembled Models Mfr. No.	Cat. No.	Each	Unassembled Models Mfr. No.	Cat. No.	Each
Standard Models										
47" (119cm)	720cfm (≤0.35" H_2O)	None†	Incandescent VP, 100w	115V 60Hz	2247400	**16-080**	4271.81	----	----	----
Explosion-Proof Models										
47" (119cm)	720cfm (≤0.35" H_2O)	None†	Incandescent EP‡	115/230V 50/60Hz	----	----	----	2246602	**16-080-10**	4431.80
72" (178cm)	1120cfm (0.23" H_2O)	$^3/_4$hp EP	Incandescent EP‡	115/230V 60Hz	2246500	**16-080-6**	7994.31	----	----	----

† Motor blower required. Contact your Fisher Scientific Customer Service Representative for proper selection.
‡ Bulb not included.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Labconco™ Basic™ 47 and 70 Hoods — International Models

Ideal for rooms with ceilings below eight feet and shallow countertops

Automatic bypass system has openings above front panel and below air foil to reduce face velocity fluctuation when sash is lowered, for continuous and efficient removal of fumes.

Labconco Basic Hoods - International Models

- Exhaust volumes of 720 or 1120cfm (0.25 or 0.57"H_2O), depending on hood width
- 10.31" (26.2cm) O.D. duct collar for connection to exhaust system
- With two-piece adjustable baffle to direct airflow
- Removable curved air foil and front panel for easy cleaning
- Vertical-rising 0.19" thick (0.48cm) tempered glass counter-balanced sash
- 18.5" (47cm) deep working area
- Switches for blower and vaporproof incandescent light included on nonexplosion-proof models only
- Explosion-proof models have incandescent lighting fixture (order bulb separately)
- Right-side fixture panel is factory prepared to accept up to three service fixtures, one duplex electrical receptacle and airflow monitor (sold separately)
- Right-interior wall is factory-prepared for one cupsink with turret (sold separately)
- Durable glacier white epoxy-coated 16-gauge steel exterior and interior

ORDERING INFORMATION:
Exterior D × H: 25 × 48" (64 × 122cm). Add 5" (12.7cm) to height for models with built-in blower. Available with or without blower. Blower may be mounted in hood liner, above hood or at remote roof location.

REQUIRES:
Remote blower (some models), ductwork, base cabinets, adjustable-height base stands, solid epoxy flat work surfaces

COMPLIANCE:
SEFA 1-2005, NFPA 45-2004, ASTM™ E84-01, ASHRAE™ 110-95, ANSI™ Z9.5-2003, UL 3101-1/61010-1, CAN/CSA C22.2 No. 1010.1, CE Conformity Marking

Description	Mfr. No.	Cat. No.	Each
Basic 70; 6'; Requires remote blower; 115V, 60Hz, 1A, Domestic	2246700	**16-080-302**	5080.30
Basic 47; 4'; Requires remote blower; 115V, 60Hz, 1A, Domestic	2246600	**16-080-301**	4045.05
Basic 70; 6'; w/Integral blower; 115V, 60Hz, 12.9A, Domestic	2246703	**16-080-303**	6862.95
Basic 70; 6'; w/Integral explosion-proof blower; 115/230V, 60Hz, 12.4/6.7A, Domestic	2246705	**16-080-304**	7569.95

Labconco™ Fiberglass 30 Fume Hoods

Compact hoods with bypass airflow for efficient fume removal

Designed for small working spaces — footprint is just 30" (76.2cm) square. Mount safely on base cabinet or stand, lab cart or benchtop (available separately).

16-315

- Corrosion-resistant, direct-drive exhaust blower built in on 16-315 and 16-319; maximum external static pressure of 0.12"H_2O at 310cfm (100fpm)
- Static pressure loss for 16-317 (designed for use with remote blower, not included) does not exceed 0.14"H_2O
- Pivoting air foil
- Pre-set baffle with flame spread index less than 25 per ASTM™ E-84
- Sash opens 20" (50.8cm), provides viewing height of 28" (71.1cm)
- 0.188" (0.48cm) thick tempered safety glass vertical-rising sash with epoxy-coated aluminum handle
- 6.688" I.D. (17cm) exhaust collar
- One-piece molded fiberglass liner
- Fixture panel accepts up to three service fixtures, one electrical duplex and one airflow monitor (sold separately)
- Prewired 100w vaporproof incandescent lighting, light and blower switches (except on Explosion-proof model, to conform with local codes)
- Explosion-proof model (16-319) features factory-installed 1/4hp explosion-proof blower approved for Class I, Group D, and Class II, Groups E, F and G

ORDERING INFORMATION:
W × L: 30 × 30.125" (76.2 × 76.5cm). For 115V 60Hz. Contact your Fisher Scientific Customer Service Representative for information about optional fixtures and models with international electrical configuration.

REQUIRES:
Ductwork, work surface, base cabinet or stand. Explosion-proof model wiring and switches must be supplied onsite to conform to local codes.

COMPLIANCE:
Conform to SEFA 1-2005, NFPA 45-204, ASTM™ E-84-01, ASHRAE™ 110-95, ANSI™ Z9.5-2003, UL 3101-1/61010-1, CAN/CSA C22.2, UL 1805

CERTIFICATIONS:
ETL listed.

Height	Blower	Static Pressure Loss†	Mfr. No.	Cat. No.	Each
Standard Models					
48" (122cm)	1/10hp Std.	≤0.12" H_2O	3030000	**16-315**	5370.97
	None‡	≤0.14" H_2O	3030002	**16-317**	4527.80
Explosion-proof Model					
54" (137cm)	1/4hp EP	≤0.12" H_2O	3030004	**16-319**	5866.42

†At 100fpm face velocity (310cfm).
‡Remote blower required (available separately).

Labconco™ Benchtop Fume Adsorbers

Capture xylene, toluene, formaldehyde and ammonia fumes; recirculate filtered air

Lightweight and portable, these units fit available bench space.

- Built-in blower draws fumes through carbon filter at average face velocity of 35fpm, 100cfm (30" models) or 200cfm (60" models)
- Venting not required
- Powder-coated steel baffle and cabinet houses blower and easily replaceable filter(s)
- Clear 0.38" thick (6.3mm) acrylic enclosure with 5° angled front shields 14.5D × 13.5"H (36.8 × 34.3cm) work area
- ON/OFF switch and 8' (2.4m) three-wire cord

10-090-100 on lab cabinet (not included)

ORDERING INFORMATION:
Overall: 23.38L × 15.38"H (59.4 × 39.1cm). For 115V 60Hz.

INCLUDES:
30" models come with one filter, 60" models with two filters. Replacement organic (10-090-104) and formaldehyde (10-090-105) filters available separately.

ALERTS:
Fume Adsorbers are not general-purpose laboratory hoods and are designed specifically for use with xylene, toluene, formaldehyde or ammonia vapors; not for use with other organic solvents or pathogenic materials. Components are not explosion-proof.

Filter Type	Electrical Requirements	Mfr. No.	Cat. No.	Each
Organic	115V 60Hz	3955200	**10-090-100**	2399.66
Formaldehyde	115V 60Hz	3955201	**10-090-250**	2399.66
Ammonia	115V 60Hz	3955202	**10-090-251**	2399.66
Organic Vapors	230V 50Hz	3955220	**10-090-121**	2383.60
Formaldehyde	230V 50Hz	3955221	**10-090-122**	2383.60
Ammonia	230V 50Hz	3955222	**10-090-123**	2383.60

Labconco™ Benchtop Fume Adsorbers-2

Designed for light-duty applications involving organic solvents, formaldehyde, ammonia or low molecular weight amines

10-090-126

- Two built-in motorized impellers to provide fast velocity up to 35fp
- Glacier white, dry powder, epoxy-coated steel housing with perforated baffle for uniform airflow
- Clear, one-piece, 3/8" thick, shatter-resistant acrylic canopy
- Quiet operation at 58-63 dBA
- Pre-wired with rear-mounted auxiliary electrical receptacle and top-mounted blower switch with circuit breaker
- Rear-mounted air sampling port
- Exterior dimensions (H × D × W): 15.4 × 23.4 × 60" (39.1 × 59.4 × 152.4cm)
- Interior dimensions (H × D): 13.5 × 14.5" (34.2 × 36.8cm)

Model 3955402 (10-090-124):

- Features two each replaceable 8.8 lb impregnated carbon filter treated to adsorb ammonia and low molecular weight amine vapors
- Adsorption rate 10% (0.88 lb)
- Operates on 115V 60Hz, 2 amps
- 6.5' IEC three-wire cord with plug

Models 3955420, 3955421 and 3955422 (10-090-125, 10-090-126 and 10-090-127)

- Operation on 240V 50Hz, 1 amp
- 9' IEC three-wire cord (electrical plug not included)

CERTIFICATIONS:
UL 3101-1/61010-1 (115V models), CAN/CSA C22.2 No. 1010.0 (115V models), CE Conformity Marking (230V models)

Filter	Voltage	Mfr. No.	Cat. No.	Each
Organic	115V	3955400	**10-090-102**	4570.47
Ammonia	115V	3955402	**10-090-124**	4287.45
Organic Vapors	230V	3955420	**10-090-125**	4423.80
Formaldehyde	230V	3955421	**10-090-126**	4423.80
Ammonia	230V	3955422	**10-090-127**	4423.80

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Labconco™ Paramount™ Ductless Enclosures

No outside ducting required

Self-contained enclosures ensure safe handling of organic, formaldehyde, acid gas, sulfur compounds or ammonia chemical fumes and vapors as well as particulates. Air inside the enclosure passes through carbon filters and in some cases, additional HEPA filters, before being safely exhausted back into the laboratory. Face velocity: 60 to 100fpm.

- Patented slotted rear baffle promotes horizontal laminar airflow to ensure vapors and fumes are drawn to back of enclosure without turbulence that could cause lack of containment
- Containment-enhancing components ensure no vapors enter breathing zone
- Accurate organic chemical vapor sensor detects chemicals breaking through filter, ensuring protection is maintained
- Seven different stackable filter types remove vapor contaminants from the air, can be combined to handle different types of chemicals and particulates during the same application
- Patented Clean-Sweep™ airfoil
- Side-entry airfoils
- Upper containment sash foil, upper dilution air supply
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Several models feature 360° visibility with glass rear wall and baffle
- Tempered safety glass front sash and sides
- Epoxy-coated aluminum frame
- Steel rear baffle and plenum
- Digital display of airflow and filter status
- Touchpad control of enclosure operation
- Ergonomically angled sash allows close viewing and reduces glare
- Advanced motor technology uses less energy and runs quieter than comparable models

REQUIRES:
Filters, work surface, base, identical or no more than two different types of filters may be used in one enclosure; 2' models require two filters; 3' models require four filters; 4' and 5' models require six filters; 6' models require eight filters. Filters must be ordered separately.

CERTIFICATIONS:
SEFA 1-2005. ASHRAE™ 110-95. ANSI™ Z9.5-2003. UL 3101-1/61010-1. CAN/CSA C22.2 No. 1010.1. CE Conformity Marking (230V models)

10-030 Series Enclosure

				At 60 to 80 to 100fpm					
Sash Opening Height	**Interior Height**	**Exterior Depth**	**Exterior Height**	**Efficiency (cfm)**	**Noise (dbA)**	**Electrical Requirements**	**Mfr. No.**	**Cat. No.**	**Each**
Width 2' (61cm)									
9.4" (23.9cm)	22.7" (57.6cm)	29" (74cm)	43.7" (111cm)	85-115-145	50-54-59	115V 60Hz	6963200	**10-030-200**	5573.88
Width 3' (91cm)									
9.4" (23.9cm)	22.7" (57.6cm)	29" (74cm)	43.7" (111cm)	130-175-220	46-42-56	115V 60Hz	6963300	**10-030-202**	6783.70
12" (30.5cm)	32" (81.3cm)	29" (74cm)	53" (135cm)	170-230-285	52-57-62	115V 60Hz	6963301	**10-030-203**	8339.38
12" (30.5cm)	32" (81.3cm)	29" (74cm)	53" (135cm)	170-230-285	52-57-62	115V 60Hz	6963302	**10-030-204**†	8393.10
9.4" (23.9cm)	22.7" (57.6cm)	29" (74cm)	43.7" (111cm)	130-175-220	46-52-56	230V 50/60Hz	6963320	**10-030-205**	6534.70
Width 4' (122cm)									
9.4" (23.9cm)	22.7" (57.6cm)	29" (74cm)	43.7" (111cm)	175-235-295	53-57-62	115V 60Hz	6963400	**10-030-208**	8068.98
12" (30.5cm)	32" (81.3cm)	29" (74cm)	53" (135cm)	230-305-380	57-62-67	115V 60Hz	6963401	**10-030-209**	9583.58
12" (30.5cm)	32" (81.3cm)	29" (74cm)	53" (135cm)	230-305-380	57-62-67	115V 60Hz	6963402	**10-030-210**†	10,199.12
12" (30.5cm)	35" (88.9cm)	35.5" (90cm)	56" (142cm)	230-305-380	59-62-67	115V 60Hz	6963403	**10-030-211**	10,799.38
9.4" (23.9cm)	22.7" (57.6cm)	29" (74cm)	43.7" (111cm)	175-235-295	53-57-62	230V 50/60Hz	6963420	**10-030-212**	7756.80
Width 5' (152cm)									
9.4" (23.9cm)	32" (81.3cm)	29" (74cm)	53" (135cm)	220-295-370	57-62-67	115V 60Hz	6963501	**10-030-216**	11,796.80
9.4" (23.9cm)	35" (88.9cm)	35.5" (90cm)	56" (142cm)	220-295-370	57-62-67	115V 60Hz	6963503	**10-030-217**	13,720.33
Width 6' (183cm)									
12" (30.5cm)	32" (81.3cm)	29" (74cm)	53" (135cm)	350-465-580	57-61-66	115V 60Hz	6963601	**10-030-220**	13,972.21
12" (30.5cm)	35" (88.9cm)	35.5" (90cm)	56" (142cm)	350-465-580	57-61-66	115V 60Hz	6963603	**10-030-221**	15,172.75

† *Full (360°) view model.*

Hamilton Scientific™ SafeAire™ II Constant-Volume/Bypass Fume Hoods

Industry's first UL 1805-compliant fume hood

Designed for exact balancing of room ventilation system with hood exhaust volume. Double bypass maintains constant exhaust volume at all sash positions.

- Full-view, laminated safety glass vertical sash with full-width recessed pull
- Unique rectangular exhaust collar for more vertical space, less noise
- Louvered bypass helps maintain consistent face velocities by supplementing exhaust air when sash is lowered

Safety Features

- Perimeter side slots reduce fume accumulation or containment
- Secondary trough contains spills
- Gasketed access panel eliminates seepage into sidewall
- Metal-free liners resist high temperatures
- Sash lock/release sets and holds operating position
- Exterior lighting is remote from fumes and vapors
- Remote baffle control
- Optional safety monitor available

Construction

- Full-perimeter steel frame for long-term strength and durability
- Counterbalance system holds sash even if cable breaks
- Low-profile airfoil for obstruction-free access to hood interior
- WaterSaver™ remote-control fixtures
- One two-tube (T-8) fluorescent light fixture (96" model has two light fixtures)
- Two duplex 120V receptacles
- Chemical- and abrasion-resistant powder-coat exterior finish
- White polyresin liner
- Field-convertible to restricted-bypass or auxiliary-air type hood

Benchtop Models

- Exhaust volumes from 485 to 1081cfm (0.09 to 0.13H_2O), depending on hood size
- Sash opening: 18" (46cm) (28.5" [72cm] opening for setup only)

ORDERING INFORMATION:
Benchtop Models: For installation on 30 to 36" (76 to 107cm) deep work surface, available separately. Contact your Customer Service Representative for more information. Shipped assembled; installation required. Overall H × D: 54.25 × 31.25" (138 × 79cm). For 120V 60Hz.

03-421-200

INCLUDES:
Prewired and preplumbed models include two electrical outlets and light and two attached fixtures (gas and cold water).

CERTIFICATIONS: UL 1085, NFPA 45

Hood Width	Mfr. No.	Cat. No.	Each
48" (122cm)	HM54L2591P0B	**03-421-200**	5690.00
60" (152cm)	HM54L2594P0B	**03-421-201**	6140.95
72" (183cm)	HM54L2597P0B	**03-421-202**	6600.00
96" (244cm)	HM54L2600P0B	**03-421-203**	8300.61

Hamilton Scientific™ Concept™ Bypass Fume Hoods with Vertical Frameless Sash

Feature 35" (89cm) sash opening for optimal visibility

Available pre-wired and pre-plumbed (4 to 6 weeks additional lead time).

- Exhaust volumes from 484 to 1084cfm (0.09 to 0.15H_2O), depending on hood size
- Designed for 60 to 100fpm face velocities
- Downdraft bypass for increased volume, less resistance and quieter operation
- Low-profile airfoil provides obstruction-free access to the hood interior
- Frameless vertical rising sash
- Chain and sprocket sash support with alignment shaft and sash leveling system
- Fixed-baffle system requires no adjustment

Safety Features

- Secondary trough provides an additional safeguard for the containment of spills
- AutoSash™ locks in the setup position, automatically returns to maximum operational height when released

Construction

- White polyresin lining
- Side wall access panels with PVC gasket
- Plugged holes for fixture installation on both posts
- Two tube fluorescent light fixtures
- Light switch
- Two duplex 120V electrical receptacles
- Dimensions: 31.25D × 63.5"H (79 × 161cm)

03-421-209 to -213

ORDERING INFORMATION:
Supplied without motor blower, service fixtures, work surface or base cabinets for support. Installation by a certified Thermo Scientific installer recommended.

CERTIFICATIONS: UL 1805 Classified, ASHRAE™ 110 Tested.

NOTES: Not for use with standard Hamilton Scientific work surfaces.

Hood Width	Mfr. No.	Cat. No.	Each
48" (122cm)	HM54L2570P0B	**03-421-209**	7370.00
60" (152cm)	HM54L2571P0B	**03-421-210**	7670.00
72" (183cm)	HM54L2572P0B	**03-421-211**	8410.00
96" (244cm)	HM54L2574P0B	**03-421-213**	9810.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Hamilton Scientific™ SafeAire™ II Fume Hood Assemblies

- Constant volume/bypass fume hood superstructure on one or two fume hood base cabinets
- Exhaust volumes from 760 to 1710cfm, depending on hood size

ORDERING INFORMATION:
Minimum height (floor to ceiling) needed: 110" (279.4cm). Ductwork not included. Assembly required. Fume hoods not prewired or prepiped. Color selection required to complete your order. Contact your Customer Service Representative for color selection information.

INCLUDES:
Vent kit, Fillers, Work surface with vent and cupsink cutout, Cupsink, Water service fixture, Air service fixture, Gas service fixture, Vacuum service fixture, Molding, Corners, Asymmetrical exhaust duct, Blower sized for system

Hood Width	Total Exhaust/Static Pressure Loss at 100fpm	Base	Mfr. No.	Cat. No.	Each
48" (122cm)	760cfm (0.18" H_2O)	1 Acid-storage cabinet	HMLAB025	**HMLAB025**	12,937.45
72" (183cm)	1250cfm (0.27" H_2O)	1 Acid-storage cabinet and 1 solvent-storage base cabinet	HMLAB027	**HMLAB027**	27,565.94

SafeAir II Fume Hood Assemblies

Hamilton Scientific™ SafeAire™ II 5' Fume Hood Assemblies

Constant volume fume hood superstructure on one or two fume hood base cabinets

- Ductwork not included
- Assembly required; not pre-wired or pre-piped
- Exhaust volume: 1000cfm
- HMLAB026: fume hood assembly on one acid storage and one fume hood base cabinet
- HMLAB030: fume hood assembly on two fume hood base cabinets

HMLAB026 Includes:

Constant volume/bypass superstructure, acid storage base cabinet, fume hood base cabinet, vent kit, two fillers, work surface with vent and cupsink cutout, cupsink, water service fixture, air service fixture, gas service fixture, vacuum service fixture, three molding, two corners, asymmetrical exhaust duct, blower

HMLAB030 Includes:

Constant volume/bypass superstructure, two fume hood base cabinet, two fillers, work surface with cupsink cutout, cupsink, water service fixture, air service fixture, gas service fixture, vacuum service fixture, three molding, two corners, asymmetrical exhaust duct, blower

Base	Cat. No.	Each
One acid-storage cabinet and one fume hood base cabinet	**HMLAB026**	14,956.82
Two fume hood base cabinets	**HMLAB030**	13,570.15

SafeAir II Fume Hood Assemblies

Hamilton Scientific™ SafeAire™ II 8' Fume Hood Assemblies

Constant volume/bypass fume hood superstructure on one or two fume hood base cabinets

- Ductwork not included
- Assembly required; not pre-wired or pre-piped
- Exhaust volume: 1710cfm
- HMLAB028: fume hood assembly on one acid storage and one fume hood base cabinet
- HMLAB032: fume hood assembly on two fume hood base cabinets

HMLAB028 Includes:

Constant volume/bypass superstructure, acid storage base cabinet, fume hood base cabinet, vent kit, two fillers, work surface with vent and 2-cupsink cutout, cupsinks, water service fixture, air service fixture, gas service fixture, vacuum service fixture, molding, two corners, asymmetrical exhaust duct, blower

HMLAB032 Includes:

Constant volume/bypass superstructure, two fume hood base cabinet, two fillers, work surface with 2-cupsink cutouts, cupsinks, water service fixture, air service fixture, gas service fixture, vacuum service fixture, three molding, two corners, asymmetrical exhaust duct, blower

Base	Cat. No.	Each
One acid-storage cabinet and one fume hood base cabinet	**HMLAB028**	18,330.00
Two fume hood base cabinets	**HMLAB032**	16,677.12

SafeAir II Fume Hood Assemblies

Hamilton Scientific™ Floor-Mounted Constant Volume/Bypass Fume Hoods

Efficiently remove fumes and vapors while keeping the exhaust volume constant

Floor-mounted hoods incorporate double bypass to maintain constant exhaust volume at all sash positions. Designed to permit exact balancing of room ventilation system with hood exhaust volume, they are field-convertible to restricted bypass or auxiliary air type hoods. Available prewired and preplumbed (4 to 6 weeks additional leadtime).

- Double-hung sash is full-view, laminated safety glass with full-width recessed pulls
- Sash raises completely for easy setup (66.5" [168.9cm] sash opening)
- One cupsink and two side-wall access panels with PVC gasket at front left; 96" wide hood has one cupsink and two access panels at each side
- Two-tube fluorescent light fixture, light switch and two duplex 120V receptacles (96" [243.8cm] wide hood has two light fixtures)
- Plugged holes for future service fixture installation on both posts
- D × H: 32.44 × 90" (82.2 × 228.6cm)
- White polyresin liner

ORDERING INFORMATION: Supplied without motor blower, water or gas fixtures. Shipped knocked down; requires extensive job site assembly. Installation by a certified Hamilton Scientific installer recommended.

INCLUDES:
Models include two electrical outlets and light and two attached fixtures (gas and cold water).

REQUIRES:
Motor blower, water and gas fixtures

CERTIFICATIONS:
UL 1805

NOTES:
Hamilton Scientific fume hoods are not prewired or prepiped.

HM554S710PB

Hood Width	Mfr. No.	Cat. No.	Each
60" (152cm)	HM554S710PB	**HM554S710PB**	10,221.20

Hamilton Scientific™ Vented Workstations

Maximum safety, optimum comfort and high visibility

Work with balance applications, tissue trimming, pipetting, titrating and other lab procedures. Workstations fit easily on a benchtop.

54L27300

- Allow for safe containment at lower face velocities (50fpm) while reducing dangerous exposure levels in accordance with ASHRAE™-110-1995 guidelines
- Baffle system located at the rear of the enclosure provides flow patterns comparable to laboratory fume hoods
- Perimeter flow on top, bottom and sides reduces turbulence and reverses flows typically found in nonbaffled enclosures
- Made of clear 1/4" thick (0.6cm) acrylic
- Fused and polished edges ensure optimum clarity
- Hinged access shield facilitates setup and removal of apparatus from inside chamber
- 4" (10cm) outlet on 24" (61cm) and 36" (91.4cm) stations, 6" (15cm) outlet on 48" (121.9cm) station help minimize sound levels
- Can be easily connected to new or existing exhaust system with properly sized flex-ducts

REQUIRES: Duct and blower

Width	CFM at 50fpm	Mfr. No.	Cat. No.	Each
24" (61cm)	66	54L27200	**54L27200**	1806.89
36" (91.4cm)	98	54L27300	**54L27300**	1943.00
48" (121.9cm)	131	54L27400	**54L27400**	2050.00

Mystaire-Misonix™ Aura™ Ductless Fume Hoods

Protect operator and environment from particulates, powders, chemical fumes and vapors

Self-contained carbon- and/or HEPA-filtered enclosures are ideal solutions for a wide variety of applications.

- Automatic airflow modulation maintains sash velocity
- Filter saturation and low-airflow monitor and alarms
- Filtrak™ locking filter system ensures airtight seal
- Powder-coated aluminum and steel construction
- Optional mobile steel cart available
- Microprocessor safety controller monitors and adjusts fume hood face velocity to user-preset value to ensure containment of potentially toxic gases and vapors
- With advanced filter monitoring system

15-338-200 shown with optional cart

ORDERING INFORMATION: For 115V 60Hz.

WARRANTY: 12 months parts and labor

CERTIFICATIONS: ASHRAE™ 110-1995; ANSI™; OSHA; UL listed

Width	Mfr. No.	Cat. No.	Each
30" (76.2cm)	AU-30	**15-338-200**	8143.20
42" (106.7cm)	AU-42	**15-338-203**	8846.39
54" (137.2cm)	AU-54	**15-338-205**	9923.48

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Mystaire-Misonix™ Aura™ Ductless Fume Hood

Remove hazardous fumes, vapors and particles from any laboratory application

15-338-202

Self-contained, filtered enclosures come without installation costs and no ductwork is needed. The ESD fume hood enables workers to perform applications such as cleaning circuit boards with solvents in a cleanroom environment. Protects the teacher and students from fumes, vapors and particles, providing a safe laboratory environment. Students can easily view experiments through the clear sides and back panel. Fumes and particulate are captured by special multi-application filters designed to handle a variety of common chemicals and particulates.

- EverSafe II™ advanced microprocessor controller
- Electronic monitoring, low airflow and filter saturation alarms
- Filtrak™ filter locking system
- Powder coated aluminum head and chassis
- Filter performance verified by Fourier Transform Infrared Spectroscopy analysis (FTIR)
- Removable fiberglass spill tray
- Visual and audible alarms alert operators
- Wide selection of gas phase and mechanical filtration media options

CERTIFICATIONS:
Meets OSHA and ANSI™ standards, Airflow: ASHRAE™ 110-1995 certified.

Type	Mfr No.	Cat. No.	Each
Ductless fume hood	AU-30	**15-338-202**	692.69

Mystaire-Misonix™ Downflow Workstation

Stand-alone, ductless unit protects workers from small volumes of chemicals or powders

15-338-158

Useful for fingerprinting with powders, histology, powder weighing and microscopy. Open design allows close inspection of samples while maintaining high level of operator protection.

- Particles/fumes drawn downward through stainless-steel work surface
- Contaminants removed by series of filters
- After fumes or powders are filtered, clean air is returned to the room
- Pressure switch for indicating when filters need replacement
- Aluminum frame with a powder-coated exterior
- Worksurface removes for easy cleaning
- Internal 15w fluorescent light

ORDERING INFORMATION:
Measures 24L × 28W × 32"H (60 × 70 × 80cm). For 110V 60Hz.

Description	Mfr. No.	Cat. No.	Each
Downflow Work Station	FE-WS6	**15-338-158**	5640.00
Prefilters	FE-1013	**15-338-150**	400.50
HEPA Filters	FE-5020	**15-338-175**	930.89

Mystaire-Misonix™ Economy Workstation

Captures fumes and particulate matter

Use for drug and chemical analysis, pipetting, slide staining, coverslipping and graphic arts and as a balance enclosure.

- Airflow manually adjusts from 0 to 120fpm — useful for powder weighing with hood as balance enclosure
- Durable epoxy-coated metal construction
- One-piece acrylic frame base section features hinged sash for easy access to hood interior
- Head and base separated for moving or storing unit

ORDERING INFORMATION:
External Dimensions: 16L × 26W × 29.25"H (40 × 65 × 73.1cm).
Internal Dimensions: 15.75L × 25.5W × 10"H (39.4 × 63.8 × 25cm).
For 110V 60Hz.

REQUIRES:
99.997% efficient HEPA filter is required (Cat. No. 15-338-144, not included). For graphic arts applications, use carbon filter 15-338-141.

NOTES:
Prefilters extend the life of the main HEPA filter, so prefilter should be changed every six months.

15-338-157

Mfr. No.	Cat. No.	Each
FE-2620	**15-338-157**	3640.00

Before You Buy **Biological Safety Cabinets**

Thermo SCIENTIFIC

Work Smarter, More Efficiently

Use less energy, reduce costs

DC motors use less energy to operate, so there is less heat emitted into the lab.

Reduce energy, Night-Set-Back Mode

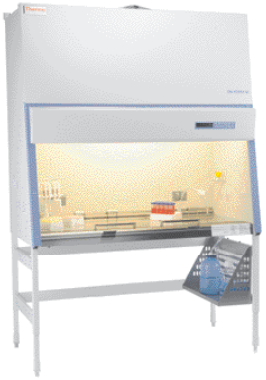
Closing the window reduces the blower speed and subsequent consumption by 80% while maintaining cleanliness and containment.

Increased motor life, outstanding reliability

Our dual motor BSCs significantly reduce the need for a motor replacement over the lifetime of your cabinet, which is expected to be more than 11 years.

Features To Look For

Unlike ordinary cabinets, Thermo Scientific™ biological safety cabinets provide the certified performance and protection you need every day, not just on Day One.



- **SmartFlow™** technology features dual-DC motors to automatically balance the cabinet inflow and downflow air velocities in real time, even as filters load.
- **Digital Airflow Verification (DAVe)** alarm signals any out-of-spec conditions.
- **SmartFlow indicator and performance monitoring** provides real-time operational safety and service information.
- **Robust construction** includes solid metal plenums, dual wall construction and more for added protection.

		Herasafe KS	1300 Series A2
Efficiency	Low-energy DC motors for operational cost savings and low heat emission	●	●
	Automated reduced flow mode for enhanced energy efficiency	●	●
Containment	Automatic airflow balancing for safety in between certifications (SmartFlow)	●	●
	Real-time monitoring of HEPA filter efficiency (SmartFlow indicator/PER factor)	●	●
	Night-Set-Back-Mode (maintains sterility)	●	●
	Timed UV system for long bulb life	●	●
	Real-time airflow alarms to notified user of impaired safety (DAVe)	●	●
	Aerosol-tight sealing front window	●	
	All metal plenums	●	●
Convenience	Motorized front window for finger-tip opening and closing	●	
	Transparent side windows to maximize light and visiblity inside the unit	●	
	SmartClean window design		●
	SmartClean Plus window design	●	
	SmartPort tubing/cable organizer		●
Comfort	Forearm support armrest designed to maximize comfort	●	●
	Angled sash to encourage natural posture	●	●
	8" window option		●

Biological Safety Cabinets

Thermo Scientific™ 1300 Series Class II, Type A2 Biological Safety Cabinets (Without Accessories)

Designed for working with biological agents at Biosafety Levels 1–3

Thermo Scientific 1300 Series A2 features advancements in brushless DC motor technology for dramatically improved energy efficiency, safety performance and reliability.

- Energy efficient design helps labs save money over the entire life of the cabinet
- Reduce operating costs up to 75% over traditional biological safety cabinets with AC motors
- Increase comfort and encourage safe working habits with the sloped front, bright workspace, and low noise level
- Maximize safety through our innovative SmartFlow™ design with Digital Airflow Verification

Thermo Scientific 1300 Series Class II, Type A2 Biological Safety Cabinets

Safety Features

- Meet NSF/ANSI™ Standard 49
- Real-time airflow adjustments ensure inflow and downflow velocities remain steady
- Pressure sensor filter monitoring measures total airflow across the working area
- Proprietary front window design simplifies cleaning for a safer working environment
- SmartFlow Indicator adjusts airflows as filter resistance changes
- SmartFlow visually demonstrates cabinet's ability to compensate to maintain personal protection

More Choices

- Available in 3, 4, 5 or 6' widths (122 or 183cm)
- Available with either 8 or 10" work aperture (20.3 or 25.4cm)
- Available in SmartCoat™ or stainless-steel interior
- Electrical or manual adjustable height stands are also available (must be ordered separately)

WARRANTY: Three years parts and labor on equipment

CERTIFICATIONS: NSF/ANSI 49, UL, CE

Specifications	
Type	Class II, Type A2
Certification	NSF/ANSI 49, UL, CE
Filter	HEPA
Max. Opening Height	21" (53.5cm)
Load Bearing Capacity	110 lb. (50kg)
Service Fixtures	6 (3 on each side)

Sash Opening Height	Chamber Material	Total Exhaust	Exterior L × W × H	Electrical Requirements	Mfr. No.	Cat. No.	Each
3' Cabinet Width							
8" (20.3cm)	SmartCoat	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1339	**13-261-339**	8272.03
8" (20.3cm)	Stainless steel	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1341	**13-261-341**	8733.33
10" (25.4cm)	SmartCoat	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1320	**13-261-331**	8272.03
10" (25.4cm)	Stainless steel	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1322	**13-261-333**	8733.33
4' Cabinet Width							
10" (25.4cm)	SmartCoat	344cfm (585m³/h)	31.5 × 51.2 × 61.8" (80 × 130 × 156.8cm)	120V 50/60Hz	1355	**13-261-300**	8829.46
10" (25.4cm)	Stainless Steel	344cfm (585m³/h)	31.5 × 51.2 × 61.8" (80 × 130 × 156.8cm)	120V 50/60Hz	1345	**13-261-220**	10,014.20
5' Cabinet Width							
8" (20.3cm)	SmartCoat	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1350	**13-261-343**	10,086.10
8" (20.3cm)	Stainless steel	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1352	**13-261-345**	10,557.35
10" (25.4cm)	SmartCoat	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1368	**13-261-335**	10,096.35
10" (25.4cm)	Stainless steel	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1370	**13-261-337**	10,547.10
6' Cabinet Width							
10" (25.4cm)	SmartCoat	517cfm (878m³/h)	31.5 × 74.8 × 61.8" (80 × 190 × 156.8cm)	120V 50/60Hz	1357	**13-261-302**	10,742.03
10" (25.4cm)	Stainless Steel	517cfm (878m³/h)	31.5 × 74.8 × 61.8" (80 × 190 × 156.8cm)	120V 50/60Hz	1347	**13-261-221**	11,203.05

Thermo Scientific™ 1300 Series Class II, Type A2 Biological Safety Cabinet Packages

Designed for working with biological agents at Biosafety Levels 1–3

13-261 Series

Thermo Scientific 1300 Series A2 features advancements in brushless DC motor technology for dramatically improved energy efficiency, safety performance and reliability. SmartClean™ offers a window cleaning position that provides the user access to interior of window sash. SmartPort™ provides a clean and easy way to organize the interior of the 1300 Series A2, with confidence due to our negative pressure dual-side wall.

- Energy efficient design helps labs save money over the entire life of the cabinet
- Reduce operating costs up to 75% over traditional biological safety cabinets with AC motors
- Increase comfort and encourage safe working habits with the sloped front, bright workspace and low noise level
- Maximize safety through our innovative SmartFlow™ design with Digital Airflow Verification

Safety Features

- Meets NSF/ANSI™ Standard 49
- Real-time airflow adjustments ensure inflow and downflow velocities remain steady
- Pressure sensor filter monitoring measures total airflow across the working area
- Proprietary front window design simplifies cleaning for a safer working environment
- SmartFlow Indicator adjusts airflows as filter resistance changes
- SmartFlow visually demonstrates cabinet's ability to compensate to maintain personal protection

More Choices

- Available in 3, 4, 5 or 6' widths (91.4, 122, 152.4 or 183cm)
- Available with either 8 or 10" work aperture (20.3 or 25.4cm)
- Available in SmartCoat™ or stainless-steel interior
- Easy to order package configurations include popular accessories (manual adjustable height stand, UV light and armrest)
- Electrical or manual adjustable height stands and Ergolign chair are also available

WARRANTY:
Three years parts and labor on equipment

CERTIFICATIONS:
NSF/ANSI 49, UL, CE

Specifications	
Type	Class II, Type A2
Certification	NSF/ANSI 49, UL, CE
Filter	H14 HEPA EN 1822, 99.995% MPPS
Max. Opening Height	21" (53.5cm)
Load Bearing Capacity	110 lb. (50kg)
Service Fixtures	6 (3 on each side)

Sash Opening Height	Chamber Material	Total Exhaust	Exterior L × W × H	Electrical Requirements	Mfr. No.	Cat. No.	Each
3' Cabinet Width Package							
8" (20.3cm)	SmartCoat	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1340	**13-261-340**	8993.51
8" (20.3cm)	Stainless Steel	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1342	**13-261-342**	9430.18
10" (25.4cm)	SmartCoat	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1321	**13-261-332**	8993.51
10" (25.4cm)	Stainless Steel	258cfm (439m³/h)	31.5 × 39.4 × 61.8" (80 × 100 × 156.8cm)	120V 50/60Hz	1323	**13-261-334**	9430.18
4' Cabinet Width Package							
10" (25.4cm)	Stainless Steel	344cfm (585m³/h)	31.5 × 51.2 × 61.8" (80 × 130 × 156.8cm)	120V 50/60Hz	1375	**13-261-222**	9988.15
5' Cabinet Width Package							
8" (20.3cm)	SmartCoat	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1351	**13-261-344**	10,911.62
8" (20.3cm)	Stainless Steel	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1353	**13-261-346**	11,367.28
10" (25.4cm)	SmartCoat	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1369	**13-261-336**	10,911.62
10" (25.4cm)	Stainless Steel	431cfm (732m³/h)	31.5 × 63 × 61.8" (80 × 160 × 156.8cm)	120V 50/60Hz	1371	**13-261-338**	11,367.28
6' Cabinet Width Package							
8" (20.3cm)	SmartCoat	517cfm (878m³/h)	31.5 × 74.8 × 61.8" (80 × 190 × 156.8cm)	120V 50/60Hz	1397	**13-261-315**	11,562.20
8" (20.3cm)	Stainless Steel	517cfm (878m³/h)	31.5 × 74.8 × 61.8" (80 × 190 × 156.8cm)	120V 50/60Hz	1337	**13-261-313**	12,029.09
10" (25.4cm)	Stainless Steel	517cfm (878m³/h)	31.5 × 74.8 × 61.8" (80 × 190 × 156.8cm)	120V 50/60Hz	1377	**13-261-223**	12,029.09

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Herasafe™ KS Class II, Type A2 Biological Safety Cabinets

Maximum safety, comfort and convenience

Feature an advanced design for easy operation and maximum safety.

Safety and Protection

- Pressure sensor monitoring ensures safe airflow across the entire work surface
- SmartFlow™ digital technology maintains constant airflow during normal filter loading or temporary airflow obstruction due to foreign objects
- Digital Airflow Verification immediately alerts to any airflow obstruction

Performance and Operation

- Interior eye-level display on rear wall
- Performance factor (PER) indicates: cabinet is safe, cabinet is safe but time for service, cabinet should not be used
- Display parameters include downflow air velocity, cabinet malfunction, time of day, operating time of optional UV-C lights, total operating hours
- Timer for delayed start
- Stopwatch function
- Handheld control for use inside cabinet

Construction

- DC motor technology uses energy efficiently with lower heat output
- Aerosol-tight window sealing
- Frameless front sash and side glass window
- Scratch-resistant stainless-steel work surface with indentations that trap spilled liquids

ORDERING INFORMATION:
Adjustable stand options with electric or manual adjustment. Work surfaces available as single or segmented modules.

COMPLIANCE:
Independently tested and certified to EN 12469 standard for Class II biological safety cabinets by TUV Nord. Compliant with NSF/ANSI™ 49 for Class II biological safety cabinets.

Thermo Scientific Herasafe KS Class II, Type A2 Biological Safety Cabinets

Specifications	
Class	II (A2)
Filter Type	H14 HEPA EN 1822
Filter Efficiency	99.995% at 0.3µm particle size
Sash Opening	25cm; 77.3cm max.
Load Bearing Capacity	50kg (one-piece work surface); 25kg (single segmented work surface)
Outlets	1 duplex, each side wall
Ports	4 access (2 on each side wall)
Service Fixtures	Up to 4 installed through access ports; up to 6 additional factory-installed on rear wall

Model	Overall L × W × H (Work Area)	Working Area L × W × H	Exhaust: Inflow Air Volume/Thimble Connection	Lighting	Power Consumption	Net Weight	Shipping Weight	Mfr. No.	Cat. No.	Each
KS9	31.5 × 39.4 × 62.2" (80 × 100 × 158.6cm)	18.3 × 35.4 × 30.7" (46.5 × 90 × 78cm)	254cfm; 330cfm	74fc (>800lx)	210w (nominal setpoint); 40w (reduced flow mode)	375 lb. (170kg)	419 lb. (190kg)	51027116	**13-998-000**	11,203.05
KS12	31.5 × 51.2 × 62.2" (80 × 130 × 158.6cm)	18.3 × 47.2 × 30.7" (46.5 × 120 × 78cm)	339cfm; 441cfm	79fc (>850lx)	275w (operating setpoint); 40w (reduced flow mode)	441 lb. (200kg)	496 lb. (225kg)	51027117	**13-998-001**	12,331.23
KS15	31.5 × 63 × 62.2" (80 × 160 × 158.6cm)	18.3 × 59.1 × 30.7" (46.5 × 150 × 78cm)	425cfm; 553cfm	116fc (>1250lx)	350w (operating setpoint); 70w (reduced flow mode)	507 lb. (230kg)	573 lb. (260kg)	51027118	**13-998-002**	14,002.00
KS18	31.5 × 74.8 × 62.2" (80 × 190 × 158.6cm)	18.3 × 70.9 × 30.7" (46.5 × 180 × 78cm)	511cfm; 664cfm	121fc (>1300lx)	435w (operating setpoint); 70w (reduced flow mode)	617 lb. (280kg)	694 lb. (315kg)	51027120	**13-998-003**	15,690.65

Thermo Scientific™ 1300 Series Class II, Type B2 Biological Safety Cabinets

Provide the highest level of product and user protection during work with gases and volatile chemicals.

Designed for safe and easy work with gases and toxic chemicals.

- Contaminated air from the external environment is "totally exhausted," eliminating the risk of sample or user exposure to harmful chemicals
- Auto compensation allows the safe use of optional inflow air prefilters
- Timed UV light option
- 10° sloped window for ergonomic posture
- Convenient display shows when the cabinet is operating safely and when it may require service

ORDERING INFORMATION:
Canopy exhaust connections available.

REQUIRES:
Exhaust system capable of drawing 665cfm for the 4' wide unit against a negative static pressure of 1.5" w.g. when the exhaust HEPA filter is new, and 2.0" w.g. when loaded prior to replacement. Exhaust flow must be adjustable to allow for variation over the life of the exhaust HEPA filter.

WARRANTY:
Three years parts and labor

CERTIFICATIONS:
NSF/ANSI™ 49, ETL, CE

1311

Specifications	
Filter Efficiency	99.99% at 0.3µm
Sash Opening	8"; 21.75" max. (20.3cm; 55.2cm max.)
Outlets	2 duplex
Access Port(s)	2 on each side

Mfr. No.	Cat. No.	Each
1311	**1311**	15,966.91

Labconco™ Purifier™ Logic™ Biological Safety Cabinets: Class II, Type A2

Patented† filter-monitoring system precisely controls airflow without need for airflow sensors

Class II, Type A2 and B2 (total exhaust) cabinets feature a built-in electronically commutated motor (ECM) programmed to consistently deliver the precise volume of air required, even as filters load. The motor is in constant communication with the unit's information center for rapid, accurate performance data. ECM consumes 50% less energy, which allows for cooler and quieter operation, and provides more power for increased HEPA filter loading.

- Exhaust volumes range from 203 to 554cfm (A2 models), 743 to 1151cfm (B2 models)
- 29" (74cm) sash-open viewing height
- Touchpad control of blower, light, timer, audible alarm mute and menu selection
- Smart-Start System to program operations such as activation/deactivation of blower, fluorescent and UV lights when opening and closing sash
- Interior-mounted, line-of-sight LCD information center displays status, data and component icons for at-a-glance monitoring
- FILTER LIFE REMAINING bar graph displays an accurate percent of HEPA filter life remaining
- STATUS line communicates alarm conditions such as "sash too high"
- Alerts warn when filter life diminishes to 20% or airflow changes, indicating an inlet grille or exhaust outlet obstruction
- Night-Smart System idles blower when sash is fully closed to help maintain a clean, particulate-free environment inside the cabinet
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail

Construction Features

- Built-in interval or elapsed timer for UV light control or experiment monitoring
- Supply and exhaust 99.99% efficient HEPA filters†
- Two electrical duplex receptacles (one on each side)
- Fully closing, clear 0.25" (6.4mm) tempered safety glass sash with two handles; counterbalanced, anti-racking mechanism; and 10" (25cm) slope
- Stainless-steel liner and removable stamped, one-piece dished work surface with two lift knobs
- Towel catch beneath work surface prevents wipes from being drawn into blower
- Curved stainless-steel inlet grille can serve as armrest
- Reserve-Air Secondary Airflow Slots prevent airflow blockage should operator inadvertently block portions of the inlet grille
- Glare-free fluorescent lighting outside contaminated work area Electronic security lock (optional activation) requires code to operate cabinet

09-681-120 with included work surface (base not included)

ORDERING INFORMATION:
A2 Model Dimensions: 61.5H × 31.25"D (156 × 79cm). B2 Model Dimensions: 71.25H × 31.25"D (181 × 79cm). For 115V 60Hz.

WARRANTY: Three years parts and service

COMPLIANCE: ETL and NSF listed.

†Contact your Fisher Scientific Customer Service Representative for optional 99.999% efficient ULPA filters.

Width	Exhaust Volume	Sash Opening	Lighting	Service Fixtures	Electrical Requirements	Mfr. No.	Cat. No.	Each
Class II, Type A2								
42" (107cm)	253-279cfm	10" (25cm)	Fluorescent	None	115V 60Hz	3430000	**09-681-117**	8858.06
42" (107cm)	253-279cfm	10" (25cm)	Fluorescent ultraviolet	1	115V 60Hz	3430001	**09-681-118**	9294.13
42" (107cm)	203-223cfm	8" (20cm)	Fluorescent	None	115V 60Hz	3430800	**09-681-109**	8858.06
42" (107cm)	203-223cfm	8" (20cm)	Fluorescent ultraviolet	1	115V 60Hz	3430801	**09-681-110**	9294.13
42" (107cm)	253-279cfm	8" (20cm)	Fluorescent	None	230V 50Hz†	303680000	**09-681-125**	11,014.25
54" (137cm)	339-370cfm	10" (25cm)	Fluorescent	None	115V 60Hz	3440000	**09-681-119**	10,061.21
54" (137cm)	339-370cfm	10" (25cm)	Fluorescent ultraviolet	1	115V 60Hz	3440001	**09-681-120**	10,497.29
54" (137cm)	269-296cfm	8" (20cm)	Fluorescent	None	115V 60Hz	3440800	**09-681-111**	10,061.21
54" (137cm)	269-296cfm	8" (20cm)	Fluorescent ultraviolet	1	115V 60Hz	3440801	**09-681-112**	10,497.29
54" (137cm)	260-296cfm	8" (20cm)	Fluorescent	None	230V 50Hz†	302480050	**09-681-127**	6,483.75
66" (168cm)	420-462cfm	10" (25cm)	Fluorescent	None	115V 60Hz	3450000	**09-681-121**	11,700.43
66" (168cm)	420-462cfm	10" (25cm)	Fluorescent ultraviolet	1	115V 60Hz	3450001	**09-681-122**	12,136.50
66" (168cm)	336-370cfm	8" (20cm)	Fluorescent	None	115V 60Hz	302580000	**09-681-113**	7,306.00
66" (168cm)	336-370cfm	8" (20cm)	Fluorescent ultraviolet	1	115V 60Hz	302581000	**09-681-114**	11,845.00
66" (168cm)	420-462cfm	8" (20cm)	Fluorescent	None	230V 50Hz†	302580050	**09-681-129**	7,306.00
66" (168cm)	420-462cfm	8" (20cm)	UV and Fluorescent	2	230V 50Hz†	302581050	**09-681-130**	7,699.25
78" (198cm)	503-554cfm	10" (25cm)	Fluorescent	None	115V 60Hz	3460000	**09-681-123**	12,656.63
78" (198cm)	503-554cfm	10" (25cm)	Fluorescent ultraviolet	2	115V 60Hz	3460001	**09-681-124**	13,297.61
78" (198cm)	403-443cfm	8" (20cm)	Fluorescent ultraviolet	2	115V 60Hz	3460801	**09-681-116**	13,297.61
78" (198cm)	503-554cfm	8" (20cm)	Fluorescent	None	230V 50Hz†	302680050	**09-681-131**	8,154.25
78" (198cm)	503-554cfm	8" (20cm)	UV and Fluorescent	2	230V 50Hz†	302681050	**09-681-132**	8,547.50
Class II, Type B2								
54" (137cm)	743-771cfm	8" (20cm)	Fluorescent	None	115V 60Hz	3441000	**09-681-133**	14,768.69
54" (137cm)	743-771cfm	8" (20cm)	Fluorescent ultraviolet	1	115V 60Hz	3441001	**09-681-134**	15,204.77
54" (137cm)	743-771cfm	8" (20cm)	Fluorescent	None	230V 50Hz†	303480050	**09-681-137**	9,467.25
78" (198cm)	1111-1151cfm	8" (20cm)	Fluorescent	None	115V 60Hz	303680000	**09-681-135**	11,014.25
78" (198cm)	1111-1151cfm	8" (20cm)	Fluorescent ultraviolet	2	115V 60Hz	3461001	**09-681-136**	17,863.24

† With British plug.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Labconco™ Purifier™ Class I and HEPA-Filtered Safety Enclosures

Personnel and environmental biohazard protection

Meet requirements for Biosafety Level 1, 2 or 3 containment without product protection, making these an economical alternative to Class II biosafety cabinets. Also suitable for chemical and particulate powder weighing and other procedures generating fine dusts or aerosols. HEPA-filtered enclosures require no outside exhausting.

10-304-115

- Total exhaust from 155 to 310cfm, depending on hood width
- Sash pivots 10°, from 9.5" (24cm) operating position to 20" (50.8cm) opening for loading and maintenance
- Quiet variable-speed, solid-state internal blower maintains appropriate air velocity
- Airfoil with Clean-Sweep™ airflow openings
- Optional built-in Guardian™ Airflow Monitor to alert user of face velocities outside preset range (where applicable)
- Front-mounted pressure gauge monitors pressure differential against the HEPA filter
- HEPA filter is 99.99% efficient on 0.3µm particles (where applicable)
- Negative pressure design ensures containment — should a leak occur, the system traps the contaminated air and recirculates it through the filter
- Class I Enclosures have a 15w, 254nm germicidal UV lamp to use in conjunction with surface disinfection to ensure decontamination of biohazardous particulates while unattended
- 0.25" (6.4mm) tempered glass side panels and sash
- Glare-free fluorescent lamp mounted outside contamination area
- Blower and light switches are front-mounted for easy access
- Powder-coated aluminum frame and steel rear plenum and zone-perforated rear baffle
- Back panel has two utility ports for service connections
- Open bottom allows enclosure to be placed on existing cabinetry or accessory dished work surface

ORDERING INFORMATION:
28.75L × 37"H (73 × 94cm). 115V 60Hz, 3A.

COMPLIANCE:
ASHRAE™ 110-1995 conformity tested. Biological containment verified per NSF Standard Number 49 Personnel Protection Test.

CERTIFICATIONS:
ETL listed (certified to UL 3101-1/61010-1 and CAN/CSA C22.2 No. 1010.1).

NOTES:
For operator safety, UV lamp cannot be turned on when fluorescent lamp is in use.

Width	Exhaust Volume	Guardian Monitor Included	UV Lamp	Shipping Weight	Mfr. No.	Cat. No.	Each
Class I Enclosures							
24" (61cm)	110-155cfm	No	254nm	125 lb. (57kg)	3980201	**10-304-110**	4840.00
24" (61cm)	110-155cfm	Yes	254nm	125 lb. (57kg)	3980203	**10-304-111**	5570.00
36" (91.4cm)	165-230cfm	No	254nm	160 lb. (73kg)	3980301	**10-304-114**	5370.00
36" (91.4cm)	165-230cfm	Yes	254nm	160 lb. (73kg)	3980303	**10-304-115**	6110.00
48" (121.9cm)	220-310cfm	No	254nm	195 lb. (88kg)	3980401	**10-304-118**	5910.00
48" (121.9cm)	220-310cfm	Yes	254nm	195 lb. (88kg)	3980403	**10-304-119**	6640.00
HEPA-Filtered Enclosures							
24" (61cm)	110-155cfm	No	None	125 lb. (57kg)	3980200	**10-304-122**	4390.00
24" (61cm)	110-155cfm	Yes	None	125 lb. (57kg)	3980202	**10-304-123**	5030.00
36" (91.4cm)	165-230cfm	No	None	160 lb. (73kg)	3980300	**10-304-126**	5090.00
36" (91.4cm)	165-230cfm	Yes	None	160 lb. (73kg)	3980302	**10-304-127**	5830.00
48" (121.9cm)	220-310cfm	No	None	195 lb. (88kg)	3980400	**10-304-130**	5440.00
48" (121.9cm)	220-310cfm	Yes	None	195 lb. (88kg)	3980402	**10-304-131**	6370.00

Labconco™ PuriCare™ Procedure Stations with 12" Sash Opening

Protect personnel, animals and working environment

Specialized Class II biological safety cabinets are designed for conducting small animal research activities such as cage changing, weighing, anesthesia delivery and surgical procedures.

- Class 5 conditions per ISO™ 14644-1 and 2 (formerly Class 100)
- Nominal inflow velocity of 85fpm
- Nominal downflow velocity of 55fpm
- Approximately 70% air recirculation

Operation

- Smart-Start™ System allows programmed start-up and shut-down operations
- Touchpad control on right-hand side post for manual activation of blower, light, timer, audible alarm mute and menu selection
- Line-of-sight LCD information center with FILTER LIFE REMAINING bar graph, status line for alarm conditions and alerts to warn when filter life diminishes to 20%, 10% and 0%
- Built-in interval or elapsed timer for experiment monitoring
- Fluorescent lighting
- UV lamp with timer
- Filter monitoring system and electronically commutated motor that automatically adjusts as filters load
- Intrinsically safe Contain-Air Negative Pressure Channel
- Night-Smart System idles the blower when sash is fully closed
- Electronic security lock (optional activation) that requires code to operate the cabinet
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail

Construction

- Fully closing, clear 0.25" (0.6cm) tempered safety glass sash with two sash handles
- Counterbalanced, antiracking mechanism; 10° (25.4cm) slope
- Sash opening: 12" (30.5cm) working height, 21.7" (55.1cm) maximum
- Curved stainless-steel inlet grille with Reserve-Air Secondary Airflow Slots to prevent airflow blockage
- Bright, 90-100fc, glare-free fluorescent lighting outside contaminated work area
- Radiused type 304 stainless-steel interior
- Removable, seamless, dished work surface with lift-out knobs
- Epoxy-coated steel exterior
- Towel catch with sponge-type prefilter located under work surface
- Supply and exhaust 99.99% efficient HEPA filters
- Trace odor carbon postfilter
- Two electrical duplex receptacles, one on each side, with ground fault interruption and stainless-steel splash covers

10-360-101

ORDERING INFORMATION:
For 115V 60Hz, 12A. Additional voltages available; contact your Fisher Scientific Customer Service Representative for more information.

WARRANTY:
Full three-year warranty on parts and service

CERTIFICATIONS:
ETL listed. Meet UL Standard 3101/61010-1 and CAN/CSA C22.2 No. 1010.1-92.

Width	Efficiency	UV Lamp	Service Fixtures	Shipping Weight	Mfr. No.	Cat. No.	Each
72" (183cm)	483-544cfm	No	0	805 lb. (431kg)	3481200	**10-360-104**	13,335.97
48" (122cm)	323-364cfm	Yes	1	585 lb. (265kg)	3480201	**10-360-101**	11,063.27

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location.
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Laminar Flow

Fisher Scientific™ PCR Workstations

Provide ISO™ Class 5 conditions appropriate for PCR experiments

PCR Workstation directs HEPA-filtered air downward over the work area to provide ISO Class 5 conditions and protect work from particulate contamination. Enclosures feature a variable digital timer that provides UV light exposure to deactivate DNA and RNA contaminants. When the set time expires, the UV light automatically switches off in preparation for the next experiment.

- Variable digital timer for UV exposure with eight settings: 5, 10, 15, 30, 60, 120, 240 minutes and continuous
- Removable safety panel closes sash opening to allow UV light to operate
- Fluorescent lamp and 254nm UV lamp with three-way switch (fluorescent, UV and off)
- 9.4"-high sash opening
- Ergonomic 10°-angled hinged sash pivots upward, locks to a loading height of 20"
- 99.99%-efficient HEPA filter and disposable prefilter
- Built-in blower with motorized impeller and solid-state speed control
- Minihelic™ pressure gauge
- Air diffuser
- Blower switch
- Type 304 polished stainless-steel work surface
- White dry-powder, epoxy-coated aluminum and steel construction
- UV-resistant 0.25"-thick clear tempered safety glass sash and side
- Two rear utility ports with iris openings and plugs

ORDERING INFORMATION:
2' Model (L × W × H): 28.8 × 24 × 37.9" (73 × 60.7 × 96cm).
3' Model (L × W × H): 28.8 × 36 × 37.9" (73 × 91.4 × 96cm).

WARRANTY: One year

CERTIFICATIONS:
UL 3101-1/61010A-1, CAN/CSA C22.2 No. 1010.1; ETL listed.

ALERTS:
Workstation provides product/sample protection only. Does not protect personnel.

09-681-202

Dimensions	Electrical Requirements	Mfr. No.	Cat. No.	Each
Width: 2'				
28.8 × 24 × 37.9" (73 × 60.7 × 96cm)	115V 60Hz, 3A, 83w	3560000	**09-681-202**	4784.73
28.8 × 24 × 37.9" (73 × 60.7 × 96cm)	230V 50Hz, 2A, 45w	3560001	**09-681-203**	4784.73
Width: 3'				
28.8 × 36 × 37.9" (73 × 91.4 × 96cm)	115V 60Hz, 3A, 108w	3260002	**103-603-08**	3793.55

Thermo Scientific™ Forma™ 1800 Series Class 100 Clean Benches

Provide a Class 100 work area for procedures requiring a particle-free environment.

All interior surfaces of the work area align with the edge of the HEPA filter media to provide true laminar airflow, preventing "picture framing" and backwashing of contaminated air and ensuring product safety.

- Intake air passes through a 1.0" (2.5cm) fiberglass prefilter
- Blower/motor unit moves air through zero-probed HEPA filter rated at 99.99% efficient for 0.3µm particulates, then directed horizontally across work surface
- Positive pressure, unidirectional laminar airflow prevents any inflow of room air contaminants onto the work surface
- Built-in spill guard at the back of the work area protects filter from spilled liquids, preventing filter damage and premature replacement
- Blower/motor automatically compensates for filter loading between annual certifications
- Control panel houses blower/motor switch, light switch, accessory receptacle and receptacle for an optional UV light
- Work surface and sidewalls are 16-gauge Type 304 stainless steel for durability and easy cleaning

Specifications	
Electrical Requirements	120V 60Hz, 12.0 FLA
Amps per Breaker	15A
Plug Type	NEMA 15-5P
Port(s)	4 access (2 on each sidewall)

ORDERING INFORMATION:
Units can be factory modified with reverse airflow to accommodate centrifuges, automated samplers and other aerosol producing equipment.

COMPLIANCE:
Federal Standard 209E for Class 100 (M 3.5) clean air; UL listed.

Thermo Scientific Forma 1800 Series Class 100 Clean Benches

Model	Height	Power Consumption	Mfr. No.	Cat. No.	Each
3' Benchtop	77.6 to 78.9" with 30" Stand; 83.6 to 84.9" with 36" Stand; 197.1 to 200.4cm with 30" Stand; 212.3 to 215.6cm with 36" Stand	2750 BTUH (810w)	1839	**13-261-364**	5699.39
4' Benchtop	81.6 to 82.9" with 30" Stand; 87.6 to 88.9" with 36" Stand; 207.3 to 210.6cm with 30" Stand; 222.5 to 225.8 with 36" Stand	3680 BTUH (1060w)	1849	**13-261-365**	7250.00
6' Benchtop	82.6 to 83.9" with 30" Stand; 88.6 to 89.9" with 36" Stand; 209.8 to 213.1 with 30" Stand; 225.0 to 228.3cm with 36" Stand	4910 BTUH (1440w)	1828	**13-261-366**	10,050.00

Labconco™ Purifier™ Horizontal Clean Benches, 3'

Benchtop units for electronics and semiconductor testing, clinical labs and hospitals

Benches direct HEPA-filtered air horizontally over the work area to provide ISO™ Class 5 (Class 100) conditions and protect work from particulate contamination. Applications include plant tissue culture, media plate preparation, electronics inspection, medical device assembly and pharmacy drug preparation.

- Draw room air through top of cabinet, filter out 99.99% of particles of 0.3µm and spread sterile air over work area
- Type 304 brushed stainless-steel work surface with rounded front edge
- Provide ISO 5 (Class 100) air — fewer than 100 particles 0.5µm or larger per cubic foot of air
- Angled profile is free of protrusions that could interfere with visibility or obstruct taller users
- Differential pressure across the HEPA filter is monitored via a pressure gauge
- Feature stainless steel interior work surface and powder-coated steel exterior
- Optional factory-installed 254nm UV lamp aids in decontamination while bench is not in use
- Models with UV light feature UV screen and interlocking safety switch

ORDERING INFORMATION: 48.4" (123 cm) high. 115V 60Hz. Shipped assembled.

INCLUDES: Prefilter (to trap large particles), one HEPA filter, variable-speed motor blower, light switch, blower switch and three-wire cord and plug

Labconco Purifier Horizontal Clean Benches

REQUIRES: Supporting base (sold separately)

COMPLIANCE: ETL listed.

CERTIFICATIONS: UL 3101-1/61010-1, CAN/CSA C22.2 No. 1010.1

ALERTS: Units do not protect user and should not be used in conjunction with biohazardous material, toxins or radionuclides.

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
Benches, Exterior Depth: 34" (86cm), Interior Depth: 21" (53cm), w/Fluorescent Lighting				
115V, 60Hz, 6A	Domestic	3889700	**13-118-100**	6792.25
230V, 50/60Hz, 3A	North America	3889702	**13-118-102**	6792.25
230V, 50/60Hz, 3A	UK	3889705	**13-118-104**	6792.25
230V, 50/60Hz, 3A	Schuko	3889708	**13-118-106**	6792.25
230V, 50/60Hz, 3A	China/Australia	3889711	**13-118-108**	6792.25
Benches, Exterior Depth: 39" (99cm), Interior Depth: 26" (66cm), w/Fluorescent Lighting				
115V, 60Hz, 6A	Domestic	3889701	**13-118-101**	7261.90
230V, 50/60Hz, 3A	North America	3889703	**13-118-103**	7261.90
230V, 50/60Hz, 3A	UK	3889706	**13-118-105**	7261.90
230V, 50/60Hz, 3A	Schuko	3889709	**13-118-107**	7261.90
230V, 50/60Hz, 3A	China/Australia	3889712	**13-118-109**	7261.90
Benches, Exterior Depth: 34" (86cm), Interior Depth: 21" (53cm), w/UV Lamp Lighting				
115V, 60Hz, 6A	Domestic	3889720	**13-118-110**	7373.00
230V, 50/60Hz, 3A	North America	3889722	**13-118-112**	7373.00
230V, 50/60Hz, 3A	UK	3889725	**13-118-114**	7373.00
230V, 50/60Hz, 3A	Schuko	3889728	**13-118-116**	7373.00
230V, 50/60Hz, 3A	China/Australia	3889731	**13-118-118**	7373.00
Benches, Exterior Depth: 39" (99cm), Interior Depth: 26" (66cm), w/UV Lamp Lighting				
115V, 60Hz, 6A	Domestic	3889721	**13-118-111**	7837.60
230V, 50/60Hz, 3A	North America	3889723	**13-118-113**	7837.60
230V, 50/60Hz, 3A	UK	3889726	**13-118-115**	7837.60
230V, 50/60Hz, 3A	Schuko	3889729	**13-118-117**	7837.60
230V, 50/60Hz, 3A	China/Australia	3889732	**13-118-119**	7837.60

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Labconco™ Purifier™ Horizontal Clean Benches

Benchtop units for electronics and semiconductor testing, clinical labs and hospitals

Benches direct HEPA-filtered air horizontally over the work area to provide ISO™ Class 5 (Class 100) conditions and protect work from particulate contamination. Applications include plant tissue culture, media plate preparation, electronics inspection, medical device assembly and pharmacy drug preparation.

- Draw room air through top of cabinet, filter out 99.99% of particles of 0.3µm and spread sterile air over work area
- Type 304 brushed stainless-steel work surface with rounded front edge
- Provide ISO 5 (Class 100) air: fewer than 100 particles 0.5µm or larger per cubic foot of air
- Angled profile is free of protrusions that could interfere with visibility or obstruct taller users
- Differential pressure across the HEPA filter is monitored via a Minihelic™ II pressure gauge
- Feature easy-to-clean, melanine-laminated hardboard interior work surface, epoxy-coated steel on exterior
- Optional factory-installed 254nm UV lamp aids in decontamination while bench is not in use
- Chrome-plated forged brass service fixture(s) with quarter-turn knobs are mounted on the right-side panel

ORDERING INFORMATION: Overall dimensions: 34.75L × 48.5"H (88 × 123cm). Work surface: 19"D (51cm). 115V 60Hz. Shipped assembled.

INCLUDES: Replacement prefilter (to trap large particles), one HEPA filter, variable-speed motor blower(s), light switch, blower switch and three-wire cord and plug. Has one polarized, grounded electrical receptacle.

REQUIRES: Supporting base (sold separately).

COMPLIANCE: ETL listed.

Labconco Purifier Horizontal Clean Benches

CERTIFICATIONS: UL 3101-1/61010-1, CAN/CSA C22.2 No. 1010.1

ALERTS: Units do not protect user and should not be used in conjunction with biohazardous material, toxins or radionuclides.

Labconco Purifier Horizontal Clean Benches, 4'

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
Deep Benches, Depth: 21", w/UV Lamp				
115V, 60Hz, 6A	Domestic	3888420	**13-118-120**	8761.75
230V, 50/60Hz, 3A	North America	3888422	**13-118-122**	9332.40
230V, 50/60Hz, 3A	UK	3888425	**13-118-124**	8761.75
230V, 50/60Hz, 3A	Schuko	3888428	**13-118-126**	9332.40
230V, 50/60Hz, 3A	China/Australia	3888431	**13-118-128**	8761.75
Deep Benches, Depth: 26", w/UV Lamp				
115V, 60Hz, 6A	Domestic	3888421	**13-118-121**	9332.40
230V, 50/60Hz, 3A	North America	3888423	**13-118-123**	8761.75
230V, 50/60Hz, 3A	UK	3888426	**13-118-125**	9332.40
230V, 50/60Hz, 3A	Schuko	3888429	**13-118-127**	8761.75
230V, 50/60Hz, 3A	China/Australia	3888432	**13-118-129**	9332.40

Labconco Purifier Horizontal Clean Benches, 6'

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
Deep Benches, Depth: 21", w/UV Lamp				
115V, 60Hz, 6A	Domestic	3873020	**13-118-130**	11,887.70
230V, 50/60Hz, 3A	North America	3873022	**13-118-132**	11,887.70
230V, 50/60Hz, 3A	UK	3873025	**13-118-134**	11,887.70
230V, 50/60Hz, 3A	Schuko	3873028	**13-118-136**	11,887.70
230V, 50/60Hz, 3A	China/Australia	3873031	**13-118-138**	11,887.70
Deep Benches, Depth: 26", w/UV Lamp				
115V, 60Hz, 6A	Domestic	3873021	**13-118-131**	12,564.40
230V, 50/60Hz, 3A	North America	3873023	**13-118-133**	12,564.40
230V, 50/60Hz, 3A	UK	3873026	**13-118-135**	12,564.40
230V, 50/60Hz, 3A	Schuko	3873029	**13-118-137**	12,564.40
230V, 50/60Hz, 3A	China/Australia	3873032	**13-118-139**	12,564.40

Labconco™ 8' Purifier™ Horizontal Clean Benches

Direct HEPA-filtered air horizontally over the work area to provide particulate contamination

13-118-140

- Type 304 brushed stainless-steel work surface
- HEPA filter supplied, 99.99% efficient on particles 0.3 micron
- Double-gasket, negative pressure HEPA filter leak protection
- Disposable four prefilters
- Variable speed built-in motor/blower(s) with vibration isolation pads
- Differential pressure gauge
- Tempered safety glass side panels with utility ports with iris openings
- UV-resistant, dry powder epoxy-coated steel exterior
- Fluorescent lighting
- Front-mounted light and blower switches

WARRANTY: One year warranty on parts and service

COMPLIANCE:
CAN/CSA Standard C22.2 No. 61010.1 conformity (115 volt models), ETL listing (115 volt models).

CERTIFICATIONS:
CE marked (230 volt models), UL listed 61010-1 (115 volt models).

NOTES:
Should not be used in conjunction with biohazardous material, toxins or radionuclides.

Compilance	Plug Type	Interior Depth	Mfr No.	Cat. No.	Each
Electrical Requirements: 115V 60Hz 16A					
CAN/CSA C22.2, ETL, UL	Domestic	21" (53cm)	3818520	**13-118-140**	14,150.10
CAN/CSA C22.2, ETL, UL	Domestic	26" (66cm)	3818521	**13-118-141**	14,887.40
Electrical Requirements: 230V 50/60Hz 8A					
CE	Domestic	21" (53cm)	3818522	**13-118-142**	14,150.10
CE	Domestic	26" (66cm)	3818523	**13-118-143**	14,887.40
CE	UK	21" (53cm)	3818525	**13-118-144**	14,150.10
CE	UK	26" (66cm)	3818526	**13-118-145**	14,887.40
CE	Schuko	21" (53cm)	3818528	**13-118-146**	14,150.10
CE	Schuko	26" (66cm)	3818529	**13-118-147**	14,887.40
CE	China/Australia	21" (53cm)	3818531	**13-118-148**	14,150.10

Labconco™ 4' Purifier™ Horizontal Clean Benches

Protect materials that do not generate harmful aerosols or vapors and require a particulate-free environment

13-118-60

Key Features

- 99.99% efficient HEPA filter
- Two prefilters
- Differential pressure gauge
- Double-gasket, negative pressure HEPA filter leak protection
- Front-mounted light and blower switches
- Variable speed motor/blower with vibration isolation pad
- Angled front profile

Additional Features

- Type 304 brushed stainless steel work surface
- Glacier white epoxy-coated steel exterior
- 0.25" (0.6cm) thick tempered safety glass side panels with utility ports
- Fluorescent lighting
- May be disassembled for easy passage through a narrow door or hallway (16.4" [41.7cm] deep passageway minimum)
- 10' (3m) power cord with plug

REQUIRES: Supporting base

WARRANTY: One year warranty on parts and labor

CERTIFICATIONS:
ETL and ETL-C listed (115V models); CE marked (230V models).

Interior Depth	Plug Type	Mfr. No.	Cat. No.	Each
Electrical Requirements: 115V, 60Hz, 6A				
21" (53cm)	North America	3888400	**13-118-60**	8196.50
26" (66cm)	North America	3888401	**13-118-61**	8686.00
Electrical Requirements: 230V, 50Hz, 3A				
21" (53cm)	British (UK)	3888405	**13-118-62**	8115.35
26" (66cm)	British (UK)	3888406	**13-118-63**	8686.00
21" (53cm)	China/Australia	3888411	**13-118-66**	8115.35
26" (66cm)	China/Australia	3888412	**13-118-67**	8686.00
26" (66cm)	North America	3888403	**13-118-71**	8686.00
21" (53cm)	Schuko	3888408	**13-118-64**	8115.35
26" (66cm)	Schuko	3888409	**13-118-65**	8686.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Labconco™ Purifier™ Nonventilated PCR and Tissue Culture Enclosures

Designed to reduce cross-contamination during PCR procedures and culture manipulations

- UV-resistant, glacier white and gray epoxy-coated aluminum and steel construction
- UV-opaque and resistant, 0.25" (0.6cm) thick tempered safety glass sash and sides
- Ergonomic 20° angled and hinged sash that pivots upward, locks to a loading height of 20" (50.8cm) and has wiping seals to reduce cross-contamination
- Bi-fold doors that close the sash opening
- 7.8" (19.8cm) High sash opening
- Fluorescent lamp
- 254nm UV lamp
- Interior electrical receptacle
- Front-mounted switches for three-way light (fluorescent, UV and off) and auxiliary electrical receptacle
- Two utility ports with iris openings and plugs

16-108-286

ORDERING INFORMATION:
48W × 26.75D × 25.75"H (121.9 × 190.5 × 65.4cm), shipping weight: 100 lb. (45kg), airflow monitor not included.

INCLUDES:
PCR enclosures include variable timer for UV exposure with eight settings in minutes of 5, 10, 15, 30, 60, 120, 240 and continuous.

REQUIRES:
Supporting base, work surface (available separately)

WARRANTY:
One year

COMPLIANCE:
UL 61010A-1, CAN/CSA C22.2 No. 1010.1, CE

CERTIFICATIONS:
ETL listed (115V models).

ALERTS:
Because these enclosures do not provide protection to the user, they should not be used in conjunction with biohazardous material, toxins or radionuclides. You and your safety officer must carefully assess the risk associated with any operation performed in a Purifier nonventilated enclosure.

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
PCR Enclosure	115V 60Hz, 10A	3952400	**16-108-286**	5290.95
Tissue Culture Enclosure	115V 60Hz, 10A	3951400	**16-108-284**	5176.50

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Labconco™ Purifier™ Vertical Clean Benches

Protect work from particulate contamination

Units use a 99.99% efficient HEPA filter to maintain ISO Class 5 (Class 100) conditions within the work area.

- Intrinsically sound negative pressure design
- Room air is drawn into top-mounted prefilter, then through HEPA filter before circulating air vertically through work area (nominal downforce velocity of 45 to 65fpm)
- 10° sash pivots from 9.38" (23.9cm) operating position to 20" (50.8cm) opening for loading and cleaning
- Air diffuser protects surface of HEPA filter from possible damage from apparatus
- Rear exhaust grille disperses air evenly across work area with minimal air turbulence
- Quiet variable-speed, solid-state internal blower with motorized impeller
- Blower and light switches are front-mounted and easily reached; UV lamp models have switch to power only one light at a time
- UV-opaque and resistant, 0.25" thick (6.4mm) safety glass side panels and sash
- Epoxy-coated steel upper cabinet and back panel
- Front-mounted Minihelic™ pressure gauge
- Fluorescent lamp is placed outside of work area
- Back panel has two utility ports for service connections
- Open cabinet bottom enables unit to fit on existing cabinetry or custom dished work surface

Labconco Purifier Vertical Clean Benches

ORDERING INFORMATION:
Dimensions: 28.62D × 36.75"H (72.6 × 93.5cm). For 115V 60Hz (24" models are 3A; 36" and 48" models are 5A). Vertical Clean Benches can be ordered with bifold doors; specify when ordering. Guardian™ Airflow Monitor is offered as factory-installed option on all benches; specify when ordering.

INCLUDES:
3-wire 15A line cord and plug

REQUIRES: Work surface and base stand (sold separately)

WARRANTY: One year parts and service

CERTIFICATIONS: ETL listed.

ALERTS: Purifier Vertical Clean Benches do not provide user protection. Biohazardous materials, toxins and radionuclides should be handled in Class I or Class II biological safety cabinets. (See Purifier Class I Safety Enclosures and Delta Series Cabinets).

Labconco Purifier Vertical Clean Benches

Width	UV Lamp	Guardian Airflow Monitor	Bifold Doors	Elec. Reqts.	Shipping Wt.	Mfr. No.	Cat. No.	Each
24" (61cm)	No	No	No	115V 60Hz	125 lb. (57kg)	3970200	**16-108-243**	5187.41
	Yes	No	Yes	115V 60Hz	125 lb. (57kg)	3970201	**16-108-245**	5608.85
	Yes	Yes	Yes	115V 60Hz	125 lb. (57kg)	3970204	**16-108-247**	6347.68
36" (91cm)	No	No	No	115V 60Hz	160 lb. (73kg)	3970300	**16-108-252**	5686.91
	Yes	No	Yes	115V 60Hz	160 lb. (73kg)	3970301	**16-108-253**	6212.40
	No	Yes	No	115V 60Hz	160 lb. (73kg)	3970303	**16-108-254**	6430.93
	Yes	Yes	Yes	115V 60Hz	160 lb. (73kg)	3970304	**16-108-255**	6756.90
48" (122cm)	No	No	No	115V 60Hz	195 lb. (88kg)	3970400	**16-108-260**	6821.16
	Yes	No	Yes	115V 60Hz	195 lb. (88kg)	3970401	**16-108-261**	7231.60
	Yes	Yes	Yes	115V 60Hz	195 lb. (88kg)	3970404	**16-108-263**	8189.56

Labconco Purifier Vertical Filtered PCR Enclosures

Width	UV Lamp	Guardian Airflow Monitor	Bifold Doors	Elec. Reqts.	Shipping Wt.	Mfr. No.	Cat. No.	Each
24" (61cm)	Yes	No	No	115V 60Hz	125 lb. (57kg)	3970202	**16-108-268**	5753.98
	Yes	Yes	No	115V 60Hz	125 lb. (57kg)	3970205	**16-108-269**	6235.00
36" (91cm)	Yes	No	No	115V 60Hz	160 lb. (73kg)	3970302	**16-108-272**	6362.67
	Yes	Yes	No	115V 60Hz	160 lb. (73kg)	3970305	**16-108-273**	7002.59
48" (122cm)	Yes	No	No	115V 60Hz	195 lb. (88kg)	3970402	**16-108-276**	7857.26
	Yes	Yes	No	115V 60Hz	195 lb. (88kg)	3970405	**16-108-277**	8126.32

Labconco™ XPert™ Nano Enclosures

Keep hazardous powders and particulates contained during procedures

Room air is pulled into the enclosure through the front, flows to the baffle and finally passes through a 99.99% ULPA exhaust filter before returning to the laboratory or cleanroom. Feature built-in blower and Guardian™ airflow monitor. With built-in ionizer; separate filtered exhauster is not required.

- Ergonomic air foil with aerodynamic Clean-Sweep™ airflow openings; side spring pin releases air foil for cleaning
- Upper dilution air supply and containment sash foil with side-entry air foils
- Zone-perforated, rear baffle pivots down and removes for cleaning
- Exhaust ULPA filter, 99.99% efficient on 0.12µm particles; accessible from top for leak scanning of entire surface
- True bag-in/bag-out filter disposal system (requires certified technician)
- Built-in blower with dynamically balanced, vibration-isolated motorized impeller and speed control
- 40% blower reserve allows speed adjustment (by certified technician) as filter loads
- Pressure gauge to monitor filter loading
- Guardian Airflow Monitor continuously monitors airflow; features visual and audible alarms if airflow is outside setpoint range

22-167-540 on 10-030-238 (not included)

Construction

- Interior depth: 23.4" (50cm)
- Type 304 stainless-steel interior sides, baffle, air foil and integral work surface
- Glacier white and gray, dry powder epoxy-coated aluminum and steel exterior
- Prewired fluorescent lamp and switches for blower and light
- 0.25" (0.6cm) thick tempered safety glass front sash
- 9.45" (24cm) sash opening height on 4' model
- Ergonomically angled and hinged sash pivots upward, locks in up position; wiping seal contains contaminants
- Two utility ports for pass-through of electrical cords

ORDERING INFORMATION:
Optional accessories include canopy connection, remote blowers and ductwork.

REQUIRES:
Support base

COMPLIANCE:
SEFA 1-2002; Modified ASHRAE™ 110-1995; ANSI™ Z9.5-1993; UL 3101-1/61010-1; CAN/CSA C22.2 No. 1010.1

Nominal Width	Sash Opening	At 100fpm		At 80fpm		At 60fpm	
		Exhaust	Noise	Exhaust	Noise	Exhaust	Noise
4'	9.4"	295cfm	62 to 66dbA	235cfm	58-61dbA	175cfm	49 to 54dbA

Width	Interior D × W × H	Overall L × W × H	Shipping Weight	Electrical Requirements	Mfr. No.	Cat. No.	Each
4'	23.4 × 46.7 × 22.6" (59.4 × 118.6 × 57.4cm)	29.1 × 48 × 38.3" (73.9 × 121.9 × 71.9cm)	310 lb. (141kg)	115V 60Hz	3887461	**22-167-540**	10,250.00

Labconco™ PuriCare™ Bedding Disposal Station

Convenient, mobile system for disposing of used small animal bedding

10-269-135

- Nominal inflow velocity of 50 to 80fpm (15.2 to 24.4m/min.)
- 99.99%-efficient HEPA filter
- Rear baffle optimizes airflow and distributes air evenly across the entire work area
- Interior panel protects prefilter and HEPA filter from contact with animal cages placed inside the enclosure
- Top-mounted prefilter adsorbs odors, low molecular weight contaminants and other gases from the exhaust airflow; also extend HEPA filter life
- Variable-speed blowers with solid-state control
- Fits easily through doorways and aisles; large, nonmarking polyurethane casters can lock in position
- Large access opening accommodates larger cages
- Large LDPE waste container on casters holds 40 gal. standard-size trash bags
- Glacier white powder-coated steel exterior
- Type 304 stainless-steel interior sides, back, upper panel, rear baffle and work surface
- 20w fluorescent light
- Work surface features 12" (30.5cm) square receptacle with removable trim ring

ORDERING INFORMATION:
Exterior L × W × H: 35 × 36 × 75 1/2"H (89 × 91 × 192cm). Interior D × W × H: 28 × 34 1/2 × 21 1/2" (71 × 88 × 55cm). Shipping weight: 400 lb. (182kg). Replacement waste container (09-039-122), exhaust filters (09-039-127) and dolly (09-039-123) available separately. For 115V 60Hz.

INCLUDES:
10' (3m) 3-wire cord and plug

WARRANTY:
Limited three-year on parts and service

CERTIFICATIONS:
ETL listed.

Mfr. No.	Cat. No.	Each
3840000	**10-269-135**	10,140.00

Labconco™ Protector™ Evidence Drying Cabinets with Washdown

Spray nozzle allows the interior to be washed down for easy clean up after the cabinet has been properly disinfected

Key Features

- Provide a secure ventilated area to dry evidence such as clothing and bedding
- HEPA and carbon filtered exhaust protects personnel from exposure to biohazards while eliminating nuisance odors

Additional Features

- 2" (5.1cm) O.D. drain with 7.9 gal./min. (30L/min.) drain pump and washdown spray nozzle with 6' (1.8m) coiled hose for additional decontamination
- Type 304 brushed stainless steel interior, stainless steel rod and three stainless steel collapsible/removable wire mesh shelves, 8W × 19"D (20 × 48cm)
- Safety glass door with magnetic seal that accommodates a user-supplied padlock or optional tamper-evident tag

09-682-793

- Epoxy-coated steel exterior
- Storage area, 17.5W × 26.5D × 12"H (44.5 × 67.3 × 30.5cm) with door
- 2" (5.1cm) diameter locking casters
- Inlet and exhaust roughing prefilters with MERV 11 rating; exhaust HEPA filter, 99.99% efficient on particles 0.3µm; activated organic vapor carbon filter, 7.5 lb. (3.4kg) porous coconut shell media
- Built-in blower with solid state speed control
- Red filter system alarm light to alert operator to low airflow conditions
- 96" (2.4m) power cord and plug

CERTIFICATIONS:
ETL listed (09-682-793, 09-682-794), CE marked (09-682-795, 09-682-796, 09-682-797).

L × W × H	Electrical Requirements/ Plug Type	Mfr. No.	Cat. No.	Each
28 × 36 × 79" (71.1 × 91.4 × 200.7cm)	115V; Plug Type: 115V, 13 amps	3400010	**09-682-793**	6390.00
28 × 36 × 79" (71.1 × 91.4 × 200.7cm)	230V; Plug Type: North America	3400011	**09-682-794**	6390.00
28 × 36 × 79" (71.1 × 91.4 × 200.7cm)	230V; Plug Type: British (UK)	3400012	**09-682-795**	6390.00
28 × 36 × 79" (71.1 × 91.4 × 200.7cm)	230V; Plug Type: Schuko	3400013	**09-682-796**	6390.00
28 × 36 × 79" (71.1 × 91.4 × 200.7cm)	230V; Plug Type: China/Australia	3400014	**09-682-797**	6390.00

Labconco™ Protector™ Benchtop Evidence Drying Cabinets

Provide a compact, space-saving method of securely drying evidence in a ventilated area

10-359-159

Lockable cabinet maintains the chain of custody. Air passes through the door inlet prefilter, circulates up through the interior, passes through the exhaust prefilter, HEPA and carbon filters and is exhausted back to the room through the top of the cabinet. Filters protect personnel from exposure to biohazards while eliminating nuisance odors.

- Type 304 brushed stainless steel interior and epoxy-coated steel exterior
- Stainless-steel hanging rod
- Three stainless-steel collapsible/removable wire mesh shelves
- Exhaust HEPA filter, 99.99% efficient on particles 0.3 micron
- Activated organic vapor carbon filter with 7.5 lb. (3.4 kg) porous coconut shell media
- Built-in 75w blower with solid state control rated for 5 amps
- Storage area: 26.5D × 36W x12H" (67.3 × 91.4 × 30.5cm) with door and 14-quart plastic bucket
- Safety glass door with magnetic seal to accommodate user-supplied padlock or optional tamper-evident tag
- Key-activated ultraviolet light provides secondary disinfection of interior between cases
- 2" (50.8cm) diameter locking casters
- Inlet and exhaust roughing prefilters with MERV 11 rating
- Red filter system alarm light to alert operator to low airflow conditions
- Three-position switch: fan ON, OFF, ultraviolet light ON
- 96" (2.44m) three-wired cord and plug
- Dimensions: 28D × 36W × 45.7"H (71.1 × 91.4 × 116.1cm)

ORDERING INFORMATION:
Optional ducting to the outside is available.

Electrical Requirements	Plug Type	Compliance	Mfr. No.	Cat. No.	Each
Domestic	North America	ETL	3390000	**10-359-158**	4770.00
Domestic	North America	ETL	3390001	**10-359-159**	4770.00
International	British (UK)	CE	3390002	**10-359-160**	4770.00
International	Schuko	CE	3390003	**10-359-161**	4770.00
International	China/Australia	CE	3390004	**10-359-162**	4770.00

Labconco™ Protector™ XStream™ High Performance By-Pass Hood

Offering unsurpassed containment of chemical fumes and vapors while conserving energy when operated at velocities as low as 60 fpm

103-691-08

Design negates the effects of air turbulence, vortexing and interior air "roll".

- Largest unobstructed sight line available — 37.5" from work surface to header panel — provides maximum visibility and user comfort
- Ergonomic Eco-Foil air foil that reduces energy consumption from 7 to 10%
- Clean-Sweep™ Sash Handle slots bleed air into the hood chamber and directs fume concentrations away from breathing zone
- Opti-Zone Baffle decreases typical face velocity variations found with other baffles
- Dry powder-coated steel exterior
- Upper Dilution Air Supply bathes the sash interior with room air to eliminate chemical fumes along the sash plane near breathing zone
- Pre-set rear downflow dual baffle
- Pre-wired T8 fluorescent lighting
- Sash stop located at 18" sash opening position
- Pre-drilled holes for venting and plumbing passthroughs are provided
- 12.81" I.D. exhaust connection(s)
- Corresponding SpillStopper™ (sold separately) is molded from a special formulation of corrosion-resistant epoxy resin and is dished and contoured to conform to the interior liner of hood
- Front edge has a large radius to aerodynamically direct airflow into the fume hood
- Pre-drilled holes for venting and plumbing passthroughs are provided

CERTIFICATIONS:
ETL listed.

REQUIRES:
Remote blower, ductwork, work surface, base cabinet or stand

Airflow Velocity	Mfr. No.	Cat. No.	Each
6' width, 115V			
690 CFM	110610000	**103-691-08**	10,343.13

Labconco™ 4' Purifier™ Horizontal Clean Bench

Protect your work area from particulate contamination

Direct HEPA-filtered air horizontally over the work area to provide ISO™ Class 5 (formerly Class 100) conditions. Applications for clean benches include plant tissue culture, media plate preparation, electronics inspection, medical device assembly and pharmacy drug preparation. Because they do not provide protection to the user, they should not be used in conjunction with biohazardous material, toxins or radionuclides.

- Horizontal laminar flow
- Interior depth of 21" (53cm)
- Double-gasket, negative pressure HEPA filter leak protection
- ISO Class 5 air (formerly Class 100 per Federal Standard 209E)
- Disposable prefilters (2 each)
- Variable speed built-in motor/blower(s) with vibration isolation pads
- Differential pressure gauge
- Type 304 brushed stainless steel work surface
- Tempered safety glass side panels with utility ports with iris openings
- UV-resistant, dry powder powder-coated steel exterior
- Fluorescent lighting
- Front-mounted light and blower switches
- Optional accessory: IV bar kit

Specifications:

- Weight: 455 lb. (206kg)
- Dimensions: 34D × 50W × 48.4"H (86.4 × 127 × 122.9cm)
- Electrical Reqts: 230V 50/60 Hz, 4A
- Laminar Flow: Horizontal
- Nominal Width: 4'
- Electrical Standard: Domestic
- Power Cord and Plug: North America, 230V
- Available Option: Factory-installed 254nm UV lamp with interlocking safety switch allowing operation only when blower and fluorescent light are off

13-118-70

REQUIRES: Supporting base

WARRANTY: One year, parts and service

COMPLIANCE: CE Conformity marking

Description	Mfr. No.	Cat. No.	Each
4' Purifier Horizontal Clean Bench	3888402	**13-118-70**	8120.00

Sartorius™ SPH Series Safety Powder Hoods

Weigh with confidence

The new SPH from Sartorius-Mechatronics Corporation provides a safe environment in which to measure, weigh and formulate powders while eliminating the risks of operator exposure to possible harmful compounds.

- Class I Bio Safe Cabinet
- Designed specifically for the containment of powder
- Particles are trapped in the pre-filter and HEPA filter
- Save energy by returning filtered, room-temperature air to the room
- Thermally fused polypropylene to eliminate vibration, provide chemical resistance and wipe-down cleanability
- Include HEPA Filter with 99.997% efficiency at 0.3 microns
- Audible and visual alarms warn of any potential problems
- Dynamic air flow volume with real time air velocity feedback
- Continuous HEPA filtration monitoring
- Compatible with MicroBalances
- Modular electronics for easy service
- No installation cost
- Electrical cord and waste disposal ports
- Ductless design enables easy portability
- Available in 32" or 48" widths

14-557-182

Specifications	32"	48"
Maximum volume of air filtered	350CFM	600CFM
Included Filters or Prefilters	Prefilter (1), primary HEPA (1), backup HEPA (1)	Prefilter (1), primary HEPA (1), backup HEPA (1)
Electrical Voltage	110V (optional 220V)	110V (optional 220V)
Electrical Current	3.0A (1.5A for 220V)	6.0A (6.0A for 220V)
Electrical Consumption	330W	660W
External Dimensions (L × W × H)	30 × 32 × 32.5" (762 × 813 × 826mm)	30 × 48 × 32.5" (762 × 1219 × 826mm)
Weight	175 lbs. (79.4 Kg)	250 lbs. (113.4 Kg)
Minimum Installation Clearance	3" from right side and 4" on top	3" from right side and 4" on top
Model No.	SPH32	SPH48
Model No. 220V Option	SPH322	SPH482
Model No. with Disposal Port	SPH32B	SPH48B
Model No. 220V Option with Disposal Port	SPH32B2	SPH48B2

Description	Mfr. No.	Cat. No.	Each
SPH Series Safety Powder Hood with filter, 32", 110V	SPH32	**14-557-182**	5960.00
SPH Series Safety Powder Hood with filter, 32", 220V	SPH322	**14-557-183**	6082.99
SPH Series Safety Powder Hood with filter and waste bag port, 32", 110V	SPH32B	**14-557-184**	6407.95
SPH Series Safety Powder Hood with filter and waste bag port, 32", 220V	SPH32B2	**14-557-185**	6518.00
SPH Series Safety Powder Hood with filter, 48", 110V	SPH48	**14-557-186**	6633.07
SPH Series Safety Powder Hood with filter, 48", 220V	SPH482	**14-557-187**	6743.12
SPH Series Safety Powder Hood with filter and waste bag port, 48", 110V	SPH48B	**14-557-188**	7083.30
SPH Series Safety Powder Hood with filter and waste bag port, 48", 220V	SPH48B2	**14-557-189**	7193.36

Funnels

Filtering - General Purpose

Glass

Fisherbrand® Reusable Glass Short-Stem Funnels

High resistance to chemical attack, mechanical and thermal shock

FB-601-58 Series

- Constructed with heavy uniform walls, molded rims and fire-polished stems
- Formed to a 58° angle for faster, more effective filtering
- Cone is suspended by its uppermost edge, leaving most of the conical area for filtration

COMPLIANCE:
Designed from ASTM™ Specification E 1095, Type I, Class A requirements

Top Dia.	Stem Dia.	Stem Length	Fits Paper Size	Capacity	Cat. No.	Pack of 4	Case of
1.77" (45mm)	0.25" (6.5mm)	1.96" (50mm)	2.75" (70mm)	0.64 oz. (19mL)	**FB-601-5845**	55.90	4 Pk./ 176.00
2.55" (65mm)	0.31" (8mm)	2.48" (63mm)	4.33" (110mm)	2.02 oz. (60mL)	**FB-601-5865**	173.80	4 Pk./ 548.00
2.95" (75mm)	0.31" (8mm)	2.95" (75mm)	4.92" (125mm)	3.04 oz. (90mL)	**FB-601-5875**	187.80	4 Pk./ 592.00

Fisherbrand® Reusable Glass Long-Stem Funnels

Promote faster, more effective filtering

- Constructed with heavy uniform walls, molded rims and fire-polished stems
- Formed to a 58° angle for rapid filtration
- Cone is suspended by its uppermost edge, leaving most of the conical area for filtration
- High resistance to chemical attack, mechanical and thermal shock

COMPLIANCE:
Designed from ASTM™ Specifications E 1095, Type I, Class B requirements

Top Dia.	Stem Dia.	Stem Length	Fits Paper Size	Capacity	Cat. No.	Pack of	Case of
2.55" (65mm)	0.31" (8mm)	5.9" (150mm)	4.33" (110mm)	2.02 oz. (60mL)	**FB-600-5865**	12/ 134.60	4 Pk./ 424.00
3.93" (100mm)	0.35" (9mm)	5.9" (150mm)	7.28 - 8.66" (185-220mm)	6.25 oz. (185mL)	**FB-600-58100**	6/ 102.30	4 Pk./ 322.50

Kimble-Chase Kimax™ Short Stem 58° Angle Addition Funnels

Bowls pressed to exact angle for fast filtering

- Heavy uniform walls
- Beaded reinforced rims
- Fire-polished ends

10-322C

Top Outside Dia.	Stem Length	Fits Paper of Dia.	Mfr. No.	Cat. No.	Pack of	Case of 4 Pack
0.98" (25mm)	1.57" (40mm)	1.67" (42.5mm)	28950 25	**10-322J**	24/168.60	----
1.7" (45mm)	1.96" (50mm)	2.7" (70mm)	28950 45	**10-322B**	6/67.42	196.64
2.16" (55mm)	2.48" (63mm)	3.54" (90mm)	28950 55	**10-322C**	12/184.46	538.41
2.55" (65mm)	2.48" (63mm)	4.33" (110mm)	28950 65	**10-322D**	12/203.61	594.07

Pyrex™ Brand Funnels with 60° Angle Bowls and 100mm Stems

Beaded rims reduce chipping

- Withstand heat shock
- Resist chemical attack

10-373B

Top Dia.	Stem Length	Mfr. No.	Cat. No.	Pack of 6	Case of 2 Pack
4.8" (122mm)	3.93" (100mm)	6120 5	**10-373A**	194.90	289.50
5.78" (147mm)	3.93" (100mm)	6120 6	**10-373B**	348.50	518.50

Pyrex™ Brand Funnels with Fluted Bowls and 150mm Stems

Depressed inside flutings increase filtering speed

- Strong, beaded rims
- Bowl angle: 60°

10-326-2B

Top Dia.	Stem Length	Mfr. No.	Cat. No.	Case of 12
2.55" (65mm)	5.90" (150mm)	6160 65	**10-326-2B**	206.50
2.95" (75mm)	5.90" (150mm)	6160 75	**10-326-2C**	199.30

Pyrex™ Brand Funnels with Fluted Bowls and Short Stems

Useful in clinical and hospital labs; can be used in flasks or tubes without racks

- Strong, beaded rims
- Bowl angle: 60°

10-329B

Top Dia.	Stem Length	Mfr. No.	Cat. No.	Pack of	Case of 4 Pack
1.96" (50mm)	2.5" (65mm)	6180 50	**10-329A**	12/184.50	550.00
2.55" (65mm)	2.5" (65mm)	6180 65	**10-329B**	12/208.50	620.00
2.95"(75mm)	2.9" (75mm)	6180 75	**10-329C**	12/225.00	670.00

Plastic

Fisherbrand® Heavy-Duty/ Utility Funnels

Ideal for continuous lab work and heavy-duty jobs

- Durable polypropylene construction with external ridges and ribbing to prevent vapor lock
- Autoclavable to 120°C (248°F)

10-500-7

Top Dia.	Height	Capacity	Cat. No.	Pack of	Case of
2.55" (65mm)	3.54" (90mm)	0.01 gal. (40mL)	**10-500-5**	12/52.23	Pk./206.10
3.31" (84mm)	4.33" (110mm)	0.02 gal. (100mL)	**10-500-6**	12/63.70	Pk./255.00
4.05" (103mm)	4.52" (115mm)	0.03 gal. (140mL)	**10-500-7**	12/73.45	Pk./290.27

Fisherbrand® Long-Stem Analytical Funnels

Molded polypropylene with external ridges and outside ribs to prevent vapor lock

- Inside ribbed surface slopes for quick filtration
- Use standard filter paper
- Autoclavable to 120°C (248°F)
- Bowl angle: 58°

10-500-13

Top Dia.	Stem Length	Height	Fits Paper of Dia.	Capacity	Cat. No.	Pack of	Case of
1.33" (34mm)	2.04" (52mm)	2.95" (75mm)	2.16" (55mm)	0.4 oz. (2mL)	**10-500-11**	12/ 45.05	3 Pk./ 88.95
1.88" (48mm)	1.96" (50mm)	3.26" (83mm)	2.75" (70mm)	0.77 oz. (23mL)	**10-500-12**	12/ 47.70	3 Pk./ 94.26
2.16" (55mm)	2.40" (61mm)	4.01" (102mm)	3.54" (90mm)	1.25 oz. (37mL)	**10-500-13**	12/ 51.10	3 Pk./ 102.30

Filling

Glass

Kimble-Chase Kimax™ Filling Funnels

Fire-polished edges reduce chipping

- Material: 33 expansion borosilicate glass
- Fire-polished edges
- Clear

10-346-5B

Top Dia.	Stem Dia.	Stem Length	Mfr. No.	Cat. No.	Pack of	Case of
2.36" (60mm)	0.51" (13mm)	35mm	29020 60	**10-346-5A**	6/83.23	4 Pk./243.45
3.14" (80mm)	0.59" (15mm)	35mm	29020 80	**10-346-5B**	6/92.91	4 Pk./271.54
3.93" (100mm)	0.70" (18mm)	35mm	29020 100	**10-346-5C**	6/136.19	4 Pk./397.95

Pyrex™ Brand Filling Funnels

With short wide stems

- Plain type

10-346 Series

Top Dia.	Overall Height	Mfr. No.	Cat. No.	Pack of	Case of
2.5" (65mm)	3.26" (83mm)	6220 65	**10-346A**	12/204.00	2 Pk./303.00
2.95" (75mm)	3.70" (94mm)	6220 75	**10-346B**	12/211.00	2 Pk./314.00
3.93" (100mm)	4.72" (120mm)	6220 100	**10-346C**	6/124.70	4 Pk./372.00

Plastic

Fisherbrand® Powder Funnels

Parallel stems minimize bridging of powder

- Durable polypropylene
- External ribbing prevents air locks
- Autoclavable

10-500 Series

Capacity	Top Dia.	Overall Height	Cat. No.	Pack of	Case of
1.69 oz. (50mL)	2.55" (65mm)	2.5" (66mm)	**10-500**	12/52.80	3 Pk./100.70
3.38 oz. (100mL)	2.95" (75mm)	3.3" (84mm)	**10-500-1**	12/59.30	3 Pk./116.94
7.60 oz. (225mL)	4.13" (105mm)	4.05" (103mm)	**10-500-2**	6/37.70	4 Pk./100.60
25.36 oz. (750mL)	5.9" (150mm)	5.39" (137mm)	**10-500-3**	4/31.60	6 Pk./126.40

Fisherbrand® Large LDPE Funnels

For transferring liquids

- Made of low-density polyethylene
- External ribbing for air release
- Internal ribbing in larger funnel
- Withstand temperatures up to 80°C (180°F)
- Stem length: 89mm

10-349B

Top Dia.	Stem Length	Cat. No.	Each	Case of
8" (194mm)	3.5" (89mm)	**10-349A**	25.24	6/124.91
11" (311mm)	3.5" (89mm)	**10-349B**	53.30	2/88.90

Thermo Scientific™ Nalgene™ Large Funnels, HDPE

External and internal ribbing for air release

- High-density
- Polyethylene is shatter-proof, making it a reliable long-term tool for the lab

10-371-5A, -5B

Top Dia.	Capacity	Overall Height	Stem Length	Mfr. No.	Cat. No.	Each	Case of 6
7.91" (201mm)	64.2 oz. (1.90L)	9.64" (245mm)	3.5" (89mm)	4262-0080	**10-371-5A**	39.00	149.40
10.1" (258mm)	137.2 oz. (4.06L)	11.8" (300mm)	3.6" (92mm)	4262-0110	**10-371-5B**	91.30	350.00

Thermo Scientific™ Nalgene™ Powder Funnels, PP

Fast and efficient

- Polypropylene is break-resistant and chemically compatible with a wide variety of lab reagents
- Suitable for general lab use; a durable replacement for glass funnels
- Autoclavable

10-348A to -348C

Capacity	Overall Height	Stem Dia.	Stem Length	Funnel Top, I.D.	Mfr. No.	Cat. No.	Pack of	Case of
68mL	2.63" (67mm)	0.6" (16mm)	0.86" (22mm)	2.55" (65mm)	4252-0065	**10-348A**	12/73.80	3 Pk./142.40
115mL	3.34" (85mm)	0.6" (16mm)	1.14" (29mm)	3.11" (79mm)	4252-0080	**10-348B**	12/86.50	3 Pk./167.10
243mL	4.17" (106mm)	0.8" (21mm)	1.29" (33mm)	4.09" (104mm)	4252-0100	**10-348C**	6/55.40	4 Pk./142.50

Thermo Scientific™ Nalgene™ Utility Funnels, PP or HDPE

Ideal for numerous lab applications

- 10-348-10E and 10-348-11A are made from shatter-proof, autoclavable polypropylene
- 10-437-23E has a large throat opening for faster transfer of materials and is made from shatter-proof high density polyethylene (not autoclavable)
- Suitable for a wide variety of lab applications

Nalgene Utility Funnel

Capacity	Overall Height	Stem Length	Mfr. No.	Cat. No.	Pack of	Case of
Polypropylene (Autoclavable)						
2.09 oz. (62mL)	2.55" (65mm)	0.82" (21mm)	4256-0234	**10-348-10E**	12/62.90	24 Pk./970.00
5.07 oz. (150mL)	3.7" (94mm)	0.90" (23mm)	4256-0314	**10-437-23D**	12/56.22	----
9.12 oz. (270mL)	4.60" (117mm)	1.33" (34mm)	4256-0414	**10-348-11A**	12/73.11	12 Pk./578.48
High-density polyethylene (Not autoclavable)						
35.8 oz. (1059mL)	6.1" (155mm)	2.6" (67mm)	4256-0638	**10-437-23E**	12/259.70	6 Pk./1028.48
62.9 oz. (1863mL)	7.95" (202mm)	1.85" (47mm)	4256-0800	**10-348-11C**	12/295.99	----

Filtering - Buchner Type

Glass

Kimble-Chase Kimax™ Buchner Kimflow™ Fritted Disc Funnels

Use where filtrate would attack paper filters and membranes

With marking spots.

- Heavy-wall stems and beaded top rims for extra strength

COMPLIANCE:
Designed from Fed. Spec. DD-F-776.

10-358-5H

Capacity	I.D.	Mfr. No.	Cat. No.	Each	Case of
Fine Fritted Discs — maximum pore size: 4 to 5.5µm					
0.06 oz. (2mL)	0.39" (10mm)	28400 23	**10-310-112**	78.20	----
0.5 oz. (15mL)	0.78" (20mm)	28400 153	**10-310-109**	77.00	----
1.01 oz. (30mL)	1.18" (30mm)	28400 303	**10-310-113**	80.50	----
2.02 oz. (60mL)	1.57" (40mm)	28400 603	**10-310-116**	88.90	----
5.07 oz. (150mL)	2.3" (60mm)	28400 1503	**10-310-108**	159.60	----
11.8 oz. (350mL)	3.14" (80mm)	28400 3503	**10-310-114**	221.50	----
20.2 oz. (600mL)	3.54" (90mm)	28400 6003	**10-310-115**	275.50	----
Medium Fritted Discs — maximum pore size: 10 to 15µm					
0.06 oz. (2mL)	0.39" (10mm)	28400 22	**10-424A**	90.90	9/611.50
0.5 oz. (15mL)	0.78" (20mm)	28400 152	**10-358-22D**	84.70	6/380.00
1.01 oz. (30mL)	1.18" (30mm)	28400 302	**10-358-22F**	95.70	6/429.50
2.02 oz. (60mL)	1.57" (40mm)	28400 602	**10-358-5H**	105.60	6/462.98
5.07 oz. (150mL)	2.3" (60mm)	28400 1502	**10-358-22J**	187.20	4/560.00
10.1 oz. (300mL)	3.14" (80mm)	28400 3502	**10-358-22L**	262.00	3/587.00
20.2 oz. (600mL)	3.54" (90mm)	28400 6002	**10-358-5V**	----	3/704.00
67.6 oz. (2000mL)	4.9" (125mm)	28400 20002	**10-310-111**	539.00	----
101.4 oz. (3000mL)	5.9" (150mm)	28400 30002	**10-358-22S**	726.50	----
Coarse Fritted Discs — maximum pore size: 40 to 60µm					
0.06 oz. (2mL)	0.39" (10mm)	28400 21	**10-358-22A**	90.90	9/611.50
0.5 oz. (15mL)	0.78" (20mm)	28400 151	**10-358-22C**	84.70	6/380.00
1.01 oz. (30mL)	1.18" (30mm)	28400 301	**10-358-22E**	95.40	6/417.72
5.07 oz. (150mL)	1.57" (40mm)	28400 601	**10-358-5J**	105.60	6/462.98
5.07 oz. (150mL)	2.3" (60mm)	28400 1501	**10-358-5M**	189.00	4/566.00
11.8 oz. (350mL)	3.14" (80mm)	28400 3501	**10-358-22K**	262.00	3/587.00
20.2 oz. (600mL)	3.54" (90mm)	28400 6001	**10-358-5T**	----	3/707.00
67.6 oz. (2000mL)	4.9" (125mm)	28400 20001	**10-310-110**	539.00	----
101.4 oz. (3000mL)	5.9" (150mm)	28400 30001	**10-358-22R**	726.50	----

Pyrex™ Brand Buchner Funnels with Fritted Discs

Useful where filter paper would be attacked by material being filtered

NOTES:
Do not subject disc to pressure differential greater than 15psi (0.1MPa).

10-358L

Capacity	Disc Dia.	Mfr. No.	Cat. No.	Price	Case of
Fine Fritted Discs — nominal maximum pore size: 4 to 5.5µm					
0.50 oz. (15mL)	0.78" (20mm)	36060 15F	**10-358A**	Pk. of 3/243.50	2 Pk./357.00
1.01 oz. (30mL)	1.18" (30mm)	36060 30F	**10-358D**	Ea./85.30	6/351.82
2.02 oz. (60mL)	1.57" (40mm)	36060 60F	**10-358G**	Ea./93.60	6/398.00
11.83 oz. (350mL)	3.14" (80mm)	36060 350F	**10-358N**	Ea./235.00	3/494.50
Medium Fritted Discs — nominal maximum pore size: 10 to 15µm					
0.50 oz. (15mL)	0.78" (20mm)	36060 15M	**10-358B**	Ea./75.40	6/312.50
1.01 oz. (30mL)	1.18" (30mm)	36060 30M	**10-358E**	Ea./83.50	6/352.50
2.02 oz. (60mL)	1.57" (40mm)	36060 60M	**10-358H**	Ea./91.50	6/389.00
5.07 oz. (150mL)	2.36" (60mm)	36060 150M	**10-358L**	Ea./171.10	4/473.00
11.83 oz. (350mL)	3.14" (80mm)	36060 350M	**10-358P**	Ea./232.50	3/490.00
20.2 oz. (600mL)	3.54" (90mm)	36060 600M	**10-358S**	Ea./272.00	3/578.50
Coarse Fritted Discs — nominal maximum pore size: 40 to 60µm					
0.50 oz. (15mL)	0.78" (20mm)	36060 15C	**10-358C**	Ea./76.50	6/317.50
1.01 oz. (30mL)	1.18" (30mm)	36060 30C	**10-358F**	Ea./83.40	6/352.00
5.07 oz. (150mL)	2.36" (60mm)	36060 150C	**10-358M**	Ea./168.40	4/465.50
11.83 oz. (350mL)	3.14" (80mm)	36060 350C	**10-358Q**	Ea./232.50	3/490.00
20.2 oz. (600mL)	3.54" (90mm)	36060 600C	**10-358T**	Ea./272.00	3/578.50

Plastic

Thermo Scientific™ Nalgene™ Buchner Two-Piece Funnels, PP

Components separate easily for cleaning

- Sturdy funnels consist of cup and funnel with perforated plate for easy cleaning and good chemical resistance
- All sizes are made entirely of polypropylene and are autoclavable to 135°C (275°F)
- Lightweight and durable — won't break or shatter like glass

10-362 series

Capacity	Inside Dia. (Top)	Overall Height	Stem O.D.	Stem Length	Fits Paper of Outside Dia.	Mfr. No.	Cat. No.	Each	Case of
2.8 oz. (83mL)	2.32" (59mm)	4.09" (104mm)	0.39" (10mm)	1.77" (45mm)	2.16" (55mm)	4280-0550	**10-362B**	17.82	8/91.20
6.2 oz. (186mL)	2.99" (76mm)	5.74" (146mm)	0.43" (11mm)	2.55" (65mm)	2.7" (70mm)	4280-0700	**10-362C**	22.80	6/87.30
12.0 oz. (358mL)	3.66" (93mm)	6.65" (169mm)	0.47" (12mm)	2.79" (71mm)	3.54" (90mm)	4280-0900	**10-362D**	38.60	4/98.60

Special Purpose

Fisherbrand® Glass Funnel

For buret filling

- Material: 33 expansion borosilicate glass
- Stem length: 1.37" (35mm)
- Outer diameter (top): 1.57" (40mm)
- Overall height: 2.55" (65mm)
- Autoclavable

03-865

Top Dia.	Overall Height	Stem Length	Cat. No.	Each	Pack of 12
1.57" (40mm)	2.55" (65mm)	1.37" (35mm)	**03-865**	18.44	181.84

Pyrex™ Brand Funnel for Sugar Analysis

Molded construction with bottom ground flat and beaded rim

- Without stem
- Bowl angle: 60°

10-384B

Top Dia.	Height	Opening Dia.	Mfr. No.	Cat. No.	Each	Case of 4 Pack
2.95" (75mm)	2.36" (60mm)	0.23" (6mm)	6240 75	**10-384B**	209.50	622.00

Addition

Kimble-Chase Kontes™ PTFE-Plug Stopcocks, Stoppers, Ground Joints Funnels

Glass stoppers with hexagonal heads are easy to grip and handle

- Stoppers sit on the lab table surface on their flattened heads, preventing possible contamination
- Funnels' lower joints are ₮ ground glass.

K633030-0250

Capacity	Height	Stopcock Bore	Stopcock No.	₮ Lower Joint No.	Plug No.	₮ Stopper No.	Mfr. No.	Cat. No.	Each
8.45 oz. (250mL)	12.83" (326mm)	2	2	24/40	11/25	24/25	633030-0250	**K633030-0250**	224.50
16.90 oz. (500mL)	14.2" (361mm)	4	4	24/40	15.2/30	24/25	633030-0500	**K633030-0500**	253.50

Kimble-Chase Kontes™ PTFE-Plug Stopcocks, Ground Joints Funnels

With PTFE-plug stopcocks, ground joints

Funnels' lower joints are ₮ ground glass. Similar to K298780 and K633030 Series funnels, except without stopper.

K633031-0250

Capacity	Height	Stopcock Bore	₮ Stopcock No.	₮ Lower Joint No.	Plug No.	Mfr. No.	Cat. No.	Each
8.45 oz. (250mL)	12.2" (310mm)	2	2	24/40	11/25	633031-0250	**K633031-0250**	185.60
16.9 oz. (500mL)	13.5" (345mm)	4	4	24/40	15.2/30	633031-0500	**K633031-0500**	215.36

Kimble-Chase Kontes™ Pressure Equalizing Lines, ₮ Stopcocks, Ground Joint Funnels

Similar to K299230 Series funnels, but with all-glass stopcocks. Without stoppers.

- Ground top and bottom joints

K63400-0060

Capacity	Height	₮ Joint No.	Stopcock Bore	Mfr. No.	Cat. No.	Each
2.02 oz. (60mL)	11.61" (295mm)	24/40	2	634000-0060	**K634000-0060**	221.50
4.22 oz. (125mL)	13.5" (345mm)	24/40	2	634000-0125	**K634000-0125**	229.00
8.45 oz. (250mL)	13.5" (345mm)	24/40	2	634000-0250	**K634000-0250**	252.50
16.9 oz. (500mL)	15.15" (385mm)	24/40	4	634000-0500	**K634000-0500**	289.50
33.81 oz. (1000mL)	17.9" (455mm)	24/40	4	634000-1000	**K634000-1000**	357.00

Kimble-Chase Kontes™ PTFE-Plug Stopcocks, Graduations, Pressure Equalizing Lines, Ground Joint Funnels

Graduations to stopcock are numbered both up and down

Without stoppers.

- Drip tips extend below the ₮ joint to ensure delivery

K634530-0250

Capacity	Height	Subdi-vision	Stop-cock Bore	Stop-cock No.	₮ Joint No.	Mfr. No.	Cat. No.	Each
2.02 oz. (60mL)	11.61" (295mm)	1mL	2	2	24/40	634530-0060	**K634530-0060**	301.00
4.22 oz. (125mL)	13.58" (345mm)	1mL	2	2	24/40	634530-0125	**K634530-0125**	301.00
8.45 oz. (250mL)	13.58" (345mm)	5mL	2	2	24/40	634530-0250	**K634530-0250**	347.00
16.9 oz. (500mL)	15.03" (382mm)	5mL	4	4	24/40	634530-0500	**K634530-0500**	380.50
33.81 oz. (1000mL)	17.71" (450mm)	10mL	4	4	24/40	634530-1000	**K634530-1000**	502.50
67.62 oz. (2000mL)	21.65" (550mm)	20mL	6	6	24/40	634530-2000	**K634530-2000**	598.00

Separatory

Glass

Fisherbrand® Squibb Pear-Shaped Separatory Funnels with PTFE-Plug Stopcock

Do not require grease. Lower stems made of large-diameter tubing for liquid to drain out completely when stopcock is open. Kimax™ glass.

- Eliminate contamination
- Will not bind or freeze

ORDERING INFORMATION:
Stem lengths: 60mm

COMPLIANCE:
Designed from ASTM™ E 1096-86.

13-678-603

Capacity	Plug Stopcock No.	Stopper No.	Cat. No.	Case of
125mL	2	22	**13-678-603**	6/770.01
250mL	4	22	**13-678-604**	6/891.00
500mL	4	27	**13-678-605**	6/947.50
1000mL	4	27	**13-678-606**	4/1003.14

Pyrex™ Brand Globe-Shaped Funnels with ₮ Stopcock and Stopper

Excellent for rack work

10-442 Series

Capacity	₮ Stopcock Plug No.	₮ Stopper No.	Mfr. No.	Cat. No.	Each
4.22 oz. (125mL)	2	22	6340 125	**10-442B**	128.60
8.45 oz. (250mL)	2	22	6340 250	**10-442C**	150.00
33.81 oz. (1000mL)	4	27	6340 1L	**10-442F**	265.00

Pyrex™ Brand Squibb Separatory Funnel

With PTFE-fluorocarbon - resin stopcock plug and ₮ 19/22 inner and outer joints

Reduces freezing problems and grease contamination.

ORDERING INFORMATION:
Stem length: 65mm

11-850-33

Capacity	Stopcock No.	Mfr. No.	Cat. No.	Case of 4
4.22 oz. (125mL)	2	6413-125FO	**11-850-33**	564.00

Kontes™ Squibb Pear-Shaped Separatory Funnels with ₮ Stopper and Autoclavable PTFE Stockcock Plug

Kimble-Chase KimCote™ plastic-coated glassware provides an added measure of safety in the event of breakage. Lower stems have inside diameter large enough so that a column of liquid will break with the stopcock closed, thereby giving a more complete separation and eliminating the necessity of emptying the funnel.

- Designed from ASTM™ Specifications E1096, Type 4 requirements

12-141-351

Capacity	₮ Stopcock Size	₮ Stopper No.	Stem Length	Mfr. No.	Cat. No.	Case of
4.22 oz. (125mL)	2	22	60mm	KC29048T-125	**12-141-351**	4/687.00
33.81 oz. (1000mL)	4	27	60mm	KC29048T-1000	**12-141-354**	1/349.00

Corning™ Pyrex™ Squibb Separatory Funnel, PTFE Standard Stopcock, Glass Standard Taper Stopper

ORDERING INFORMATION:
Stem lengths: 65mm

10-437-2B

Capacity	Stopcock Plug No.	₮ Stopper No.	Mfr. No.	Cat. No.	Each	Case of 4
2.02 oz. (60mL)	2	16	6402 60	**10-437-2A**	----	493.00
4.22 oz. (125mL)	2	22	6402 125	**10-437-2B**	168.90	475.00
8.45 oz. (250mL)	4	22	6402 250	**10-437-2C**	200.50	563.00
16.9 oz. (500mL)	4	27	6402 500	**10-437-2D**	230.50	647.00
33.81 oz. (1000mL)	4	27	6402 1L	**10-437-2E**	229.00	----
67.62 oz. (2000mL)	6	38	6402 2L	**10-437-2F**	332.50	----

Kimble-Chase Kimax™ Squibb Funnels with ₮ Stopcock and Stopper

Lower stems made of large-diameter tubing for liquid to drain out completely when stopcock is closed

ORDERING INFORMATION:
Stem lengths: 60mm

COMPLIANCE:
Designed from ASTM™ E 1096-86.

10-435-5B

Capacity	₮ Stopcock No.	₮ Stopper No.	Mfr. No.	Cat. No.	Price	Case of
2.02 oz. (60mL)	2	16	29048 60	**10-435-5A**	Ea./44.93	6/269.61
4.2 oz. (125mL)	2	22	29048 125	**10-435-5B**	2/288.19	3 Pk./629.96
8.45 oz. (250mL)	4	22	29048 250	**10-435-5C**	2/339.17	2 Pk./495.23
16.9 oz. (500mL)	4	27	29048 500	**10-435-5D**	Ea./219.50	4/641.50
33.8 oz. (1000mL)	4	27	29048 1000	**10-435-5E**	Ea./304.00	2/448.00

Kimble-Chase Kimax™ Squibb Pear-Shaped Sep. Funnel with PTFE-Plug Stopcock, ₮ PE Stopper

Closed-bottom, linear high-density polyethylene stopper in ₮ ground neck

Lower stem made of large-diameter tubing for liquid to drain out completely when stopcock is closed.

ORDERING INFORMATION:
Stem lengths: 60mm

COMPLIANCE:
Designed from ASTM™ E 1096-86.

10-437-11C

Capacity	Stopcock No.	₮ Stopper No.	Mfr. No.	Cat. No.	Price	Case of
4.22 oz. (125mL)	2	22	29049F 125	**10-437-11C**	2/303.28	2 Pk./442.69
8.45 oz. (250mL)	4	22	29049F 250	**10-437-11D**	2/362.58	2 Pk./529.04
16.90 oz. (500mL)	4	27	29049F 500	**10-437-11E**	1/207.35	4/605.51
33.8 oz. (1000mL)	4	27	29049F 1000	**10-437-11F**	1/288.19	2/420.84
67.62 oz. (2000mL)	6	38	29049F 2000	**10-437-11G**	1/416.68	2/608.11

Kimble-Chase Kimax™ Squibb Separatory Funnels with PTFE-Plug Stopcock

Do not require grease

10-437-10B

Lower stems made of large-diameter tubing for liquid to drain out completely when stopcock is closed.

- Eliminate contamination
- Will not bind or freeze

ORDERING INFORMATION:
Stem lengths: 60mm

COMPLIANCE: Designed from ASTM™ E 1096-86.

Capacity	Stopcock Plug No.	$ Stopper No.	Mfr. No.	Cat. No.	Pack of	Case of
1.01 oz. (30mL)	2	13	29048F 30	**10-437-10AA**	2/250.50	2 Pk./370.50
2.02 oz. (60mL)	2	16	29048F 60	**10-437-10A**	2/318.88	2 Pk./465.06
4.22 oz. (125mL)	2	22	29048F 125	**10-437-10B**	2/307.96	2 Pk./449.45
8.45 oz. (250mL)	4	22	29048F 250	**10-437-10C**	2/365.18	2 Pk./533.21
16.9 oz. (500mL)	4	27	29048F 500	**10-437-10D**	1/209.64	4/612.28
33.8 oz. (1000mL)	4	27	29048F 1000	**10-437-10E**	1/289.23	2/422.40
67.6 oz. (2000mL)	6	38	29048F 2000	**10-437-10F**	1/417.20	2/609.15

ACCESSORIES

Kimble-Chase Replacement Funnels for Kimax™ Squibb Separatory Funnels

Replacement funnel for 10-437-10 Series funnels

10-310-131

Capacity	$ Stopcock No.	Mfr. No.	Cat. No.	Each
8.4 oz. (250mL)	4	29048G 250	**10-310-132**	105.50
67.6 oz. (2000mL)	6	29048G 2000	**10-310-131**	227.00

Kontes™ 19/22 Joints with PTFE Plug Separatory Funnels

K2982900125

- Squibb-type funnel
- Pear-shaped
- At the bottom heavy-duty drip joint
- Capacity: 4.2 oz. (125mL)

Capacity	Standard Taper Joint No.	Mfr. No.	Cat. No.	Each
125mL	19/22	298290-0125	**K2982900125**	128.60

Pyrex™ Brand Squibb Funnels with joint (std. taper) Stopcock and Stopper

10-437B

- Constructed of durable Pyrex brosilicate glass

ORDERING INFORMATION:
Stem lengths: 65mm

Capacity	$ Stopcock Plug No.	$ Stopper No.	Mfr. No.	Cat. No.	Each	Case of
1.01 oz. (30mL)	2	9	6400 30	**10-437H**	162.40	----
2.02 oz. (60mL)	2	16	6400 60	**10-437A**	142.37	6/585.15
4.22 oz. (125mL)	2	22	6400 125	**10-437B**	157.10	6/645.93
8.45 oz. (250mL)	2	22	6400 250	**10-437C**	184.20	4/505.32
16.9 oz. (500mL)	4	27	6400 500	**10-437D**	228.50	4/640.00
33.81 oz. (1000mL)	4	27	6400 1L	**10-437E**	238.00	----
67.6 oz. (2000mL)	6	38	6400 2L	**10-437F**	357.00	----
135.26 oz. (4000mL)	8	38	6400 4L	**10-437G**	952.00	----

Corning™ Pyrex™ Squibb Pear-Shaped Squibb Separatory Funnel, PTFE Standard Stopcock, Polyethylene Standard Taper Stopper

10-437-5B

Closed-bottom stoppers of linear polyethylene.

ORDERING INFORMATION:
Stem lengths: 65mm

Capacity	Stopcock Plug No.	$ Stopper No.	Mfr. No.	Cat. No.	Each	Case of 4
2.02 oz. (60mL)	2	16	6404 60	**10-437-5A**	161.20	453.50
4.22 oz. (125mL)	2	22	6404 125	**10-437-5B**	164.40	462.50
8.45 oz. (250mL)	4	22	6404 250	**10-437-5C**	196.60	552.50
16.9 oz. (500mL)	4	27	6404 500	**10-437-5D**	226.00	634.50
33.84 oz. (1000mL)	4	27	6404 1L	**10-437-5E**	224.50	----
67.62 oz. (2000mL)	6	38	6404 2L	**10-437-5F**	327.00	----

Corning™ Pyrexplus™ Coated Squibb Separatory Funnel, PTFE Standard Stopcock, Glass Standard Taper Stopper

Protective PVC coating reduces spills and helps prevent glass from shattering

- Autoclavable to 121°C (250°F); resistant to thermal shock
- PTFE $ stopcocks reduce freezing problems and grease contamination
- Glass stoppers

10-438F

ORDERING INFORMATION:
Stem lengths: 65mm

Capacity	Stopcock No.	$ Stopper No.	Mfr. No.	Cat. No.	Each	Case of 4
4.22 oz. (125mL)	2	22	66402 125	**10-438D**	296.00	830.50
8.45 oz. (250mL)	4	22	66402 250	**10-438E**	326.00	969.00
16.90 oz. (500mL)	4	27	66402 500	**10-438F**	----	1321.00
33.81 oz. (1000mL)	4	27	66402 1L	**10-438G**	407.00	----
67.62 oz. (2000mL)	6	38	66402 2L	**10-438H**	518.00	----

Corning™ Pyrex™ Cylindrical Separatory Funnel, Graduated, PTFE Standard Stopcock, Glass Standard Taper Stopper

Microfinish PTFE stopcock plugs reduce freezing problems and eliminate contaminating greases

10-413-2A

ORDERING INFORMATION:
Approximate stem length is 65mm. Replacement stoppers are available; see Stoppers.

Capacity	Height	Gradu-ations	Stopcock Plug No.	$ Stop-per No.	Mfr. No.	Cat. No.	Each
4.2 oz. (125mL)	12.4" (315mm)	0.03 oz. (1mL)	2	22	6383 125	**10-413-2A**	1310.00
8.45 oz. (250mL)	13.38" (340mm)	0.06 oz. (2mL)	2	22	6383 250	**10-413-2B**	1483.00
16.9 oz. (500mL)	15.35" (390mm)	0.16 oz. (5mL)	4	27	6383 500	**10-413-2C**	1829.00
33.81 oz. (1000mL)	19.40" (493mm)	0.33 oz. (10mL)	4	27	6383 1L	**10-413-2D**	1166.00

Plastic

Thermo Scientific™ Nalgene™ Squibb Transparent FEP, Pear-Shaped Separatory Funnels with Screw Cap

PTFE funnels with leakproof TFE stopcocks and Tefzel™ ETFE screw closures

10-437-25A to -25E

Funnel can be autoclaved; stopcock can be chemically sterilized. No stopcock lubrication needed.

- So transparent that phase interface is visible down to the stopcock and nonwetting surface — enhances complete drainage
- Break-resistant and impervious to any chemical used in a separatory funnel
- No phthalates to contaminate analyses
- Useful in radiological and hazardous separations
- Autoclavable/Leakproof

ORDERING INFORMATION: Stem length is 65mm. Autoclavable except stopcock assembly, which is easily removed for chemical sterilization

Cpacity	Closure Size	Mfr. No.	Cat. No.	Each
4 oz. (125mL)	1.10" (28mm)	4301-0125	**10-437-25A**	590.00
8 oz. (250mL)	1.29" (33mm)	4301-0250	**10-437-25B**	656.50
16 oz. (500mL)	1.69" (43mm)	4301-0500	**10-437-25C**	943.00
32 oz. (1000mL)	2.08" (53mm)	4301-1000	**10-437-25D**	1096.00
64 oz. (2000mL)	2.08" (53mm)	4301-2000	**10-437-25E**	843.50

Thermo Scientific™ Nalgene™ Polypropylene Squibb Pear-Shaped Separatory Funnels with Screw Cap

Break-resistant polypropylene funnels with TFE stopcock

10-437-30A to -30D

- Separation lines between immiscible liquids easily observed
- Phase interface is observable down to the stopcock
- TFE stopcocks need no lubrication for easier handling/operation
- Funnel is chemically compatible with a wide range of lab reagents
- Funnels are susceptible to softening and swelling from extended exposure to aggressive solvents though the effect is reversible
- Autoclavable/Leakproof

ORDERING INFORMATION: Stem lengths is 65mm. Autoclavable except for stopcock assembly, which is easily removed for chemical sterilization.

Capacity	Closure Size	Mfr. No.	Cat. No.	Each	Case of
125mL	1.10" (28mm)	4300-0125	**10-437-30A**	127.06	6/502.97
250mL	1.29" (33mm)	4300-0250	**10-437-30B**	128.37	4/339.02
500mL	1.69" (43mm)	4300-0500	**10-437-30C**	150.50	4/387.50
1000mL	2.08" (53mm)	4300-1000	**10-437-30D**	184.50	4/475.00

Furnaces

Tube

Thermo Scientific™ Lindberg/Blue M™ Mini-Mite™ Tube Furnaces

With Moldatherm™ insulation for quick heatup and cooldown

- Single segment, single setpoint, one ramp to setpoint
- Adjustable high-limit overtemperature protection
- Simultaneous LED display of temperature and setpoint in °C or °F
- Split-hinge design simplifies loading and unloading
- Safety switch disconnects power when furnace is opened
- Type K long-life thermocouple

10-472-53

INCLUDES: 9' (3m) power cord

WARRANTY: 1 year (parts and labor)

Specifications	
Temperature Range	100° to 1100°C
Display	LED
Heating Zone	30.5cm (12")
Outside Dia. [Tube]	2.54cm (1")
Overall L × W × H	11 × 16 × 15" (28 × 41 × 38cm)
Power Consumption	800w
Shipping Weight	35 lb. (16kg)

Electrical Reqts.	Mfr. No.	Cat. No.	Each
120V 50/60Hz	TF55030A	**10-472-53**	2650.00
208/240V 50/60Hz	TF55035C	**10-549-190**	2870.00

Thermo Scientific™ Lindberg/Blue M™ Moldatherm™ Box Furnaces

Choice of microprocessor-based single setpoint or programmable control instrumentation

Advanced engineering and specialized construction techniques include variable density insulation, double shell cabinets, long-life heating elements and vertical, horizontal side swing or swing down doors.

Microprocessor-based Control

- Selectable self-tuning feature sets best control parameters for the thermal process
- PID control (proportional, integral, derivative) prevents overshoot
- Main power ON/OFF switch on control panel
- Controlled heat-up rate eliminates thermal shock to materials
- Quick heat-up and cool-down rates
- Adjustable high-limit overtemperature protection
- Simultaneous LED display of actual temperature vs. setpoint
- Can be configured to display temperature in either °C or °F
- Temperature Range: 100° to 1100°C

Construction

- Unique double wall minimizes exterior surface temperatures for operator safety and energy efficiency
- Side-hinge door for convenient operation and full chamber access
- Long-life Type K thermocouple
- Air vent (1" dia., top) and air inlet (0.375" dia., rear) for inert atmosphere exchange; will experience some leakage at door
- Removable and replaceable Moldatherm hearth plate supports load and prevents damage due to spillage
- Energy-efficient Moldatherm™ insulation with embedded heating elements
- Safety door switch to interrupt power to heating element when door is opened; protects heating element and minimizes exposure to end-user

10-549-238

Digital, Single-Setpoint Controller

- Single segment, single setpoint, one ramp to setpoint

Digital Single-Program, Multiple-Segment Programmable Controller

- Single program with multiple segments for ramp (up and down) and dwell (timed hold) temperature control

INCLUDES: 10' power cord except 1.5 cu. ft. models which require customer-supplied power cord or hardwiring.

CERTIFICATIONS: UL

Control	Capacity	Electrical Requirements	Mfr. No.	Cat. No.	Each
Digital/OTP	0.07 cu. ft. (1.99L)	120	BF51748A	**10-549-160**	2770.00
Multiple Seg/1 Prog/OTP	0.07 cu. ft. (1.99L)	208/240	BF51848C	**10-549-237**	3700.00
Digital/OTP	0.19 cu. ft. (5.3L)	120	BF51766A	**10-549-235**	3380.00
Digital/OTP	0.19 cu. ft. (5.3L)	208/240	BF51766C	**10-549-236**	3100.00
Digital/OTP	1.5 cu. ft. (42.5L)	240	BF51728C	**10-472-54**	4700.00
Multiple Seg/1 Prog/OTP	0.07 cu. ft. (1.99L)	120	BF51848A	**10-549-165**	3400.00
Digital/OTP	0.65 cu. ft. (18.4L)	208/240	BF51794C	**10-549-166**	3740.00
Multiple Seg/1 Prog/OTP	0.65 cu. ft. (18.4L)	208/240	BF51894C	**10-549-170**	4220.00
Multiple Seg/1 Prog/OTP	1.5 cu. ft. (42.5L)	208/240	BF51828C	**10-549-139**	5410.00
Multiple Seg/1 Prog/OTP	0.19 cu. ft. (5.3L)	120	BF51866A	**10-472-55**	3690.00
Multiple Seg/1 Prog/OTP	0.19 cu. ft. (5.3L)	208/240	BF51866C	**10-549-238**	4030.00

Muffle

Thermo Scientific™ Thermolyne™ Small Benchtop Muffle Furnaces

Fast heatup, reduced energy consumption

The Thermo Scientific Thermolyne Small Benchtop Muffle Furnace is available in two capacities that feature a temperature range of 100° to 1100°C.

- Digital single setpoint temperature control to 1100°C
- Single display shows actual temperature or setpoint
- Ceramic fiber insulation permits faster heatup, reducing energy consumption
- Embedded heating element on top and both sides improves temperature uniformity
- Drop-down door doubles as a shelf for loading and unloading
- Door safety switch stops power to heating elements when door is opened
- Thermocouple break protection cuts power to heating elements, preventing a thermocouple failure runaway condition
- 0.95cm (0.38") dia. port in chamber rear for monitoring temperatures with independent measuring devices

ORDERING INFORMATION: Accessory heating elements and thermocouples available separately.

INCLUDES: Thermocouple, line cord and plug

CERTIFICATIONS: All units CSA approved.

Thermolyne Small Benchtop Muffle Furnaces

Capacity	Temperature Stability (Uniformity)	Interior D × W × H	Exterior L × W × H	Electrical Requirements (Power Consumption)	Shipping Weight	Mfr. No.	Cat. No.	Each
0.04 cu. ft. (1.3L)	±0.3°C at 1000°C (±7.8°C at 1000°C)	5 × 4 × 3.8" (13 × 10.3 × 9.8cm)	13 × 9 × 14" (33 × 23 × 36cm)	120V 50/60Hz (1060w)	20 lb. (9kg)	FB1315M	**10-553**	1647.00
0.07 cu. ft. (2.1L)	±0.5°C at 1000°C (±5.0°C at 1000°C)	6 × 5 × 4.25" (15.2 × 12.7 × 10.8cm)	15.8 × 10 × 14.5" (40 × 25 × 37cm)	120V 50/60Hz (1450w)	28 lb. (12.7kg)	FB1415M	**10-552**	2140.00

Thermo Scientific™ Thermolyne™ Benchtop Muffle Furnaces

Compact, lightweight benchtop furnaces

- For added protection, the door safety switch stops power to heating elements when door opens
- Thermocouple break protection cuts power to heating elements, preventing a thermocouple failure runaway condition
- Two open coil heating elements on chamber sides assure fast heat-up with minimum temperature gradient
- Thermal-efficient ceramic insulation surrounds chamber for maximum energy efficiency
- 0.95cm (0.38") dia. port for monitoring chamber temperatures with independent measuring device at rear of chamber
- Temperature Range: 100° to 1200°C (212° to 2192°F)

F47900 Models

- 2L (0.07 cu. ft.) of heating area

F48000 Models

- 5.9L (0.20 cu. ft.) of heating area
- Includes ceramic shelf (SH480X1) that doubles furnace load capacity

A1 Controller

- Digital single setpoint control
- Single display shows actual temperature or setpoint

B1 Controller

- Digital single setpoint control with a single ramp to setpoint and a dwell
- Single display shows actual temperature or setpoint
- Furnaces with this control also use a mechanical Overtemperature Protection relay

F48000 and F47900 Series (left to right)

C1 Controller

- Digital programmable control with one stored program of eight segments
- Furnaces with this control also use a mechanical Overtemperature Protection relay

D1 Controller

- Digital programmable control with four stored programs, 16 segments per program
- With RS-232 communications interface
- Furnaces with this control also use a mechanical Overtemperature Protection relay

INCLUDES: Power cord

CERTIFICATIONS: CSA approved, CE marked as indicated

Interior D × W × H	Exterior L × W × H	Control	Standards	Electrical	Shipping Weight	Mfr. No.	Cat. No.	Each
0.07 cu. ft. (2L) Capacity								
6 × 5 × 4" (15 × 13.7 × 10cm)	15.5 × 11.3 × 18.5" (39 × 28.5 × 47cm)	A1 - digital single setpoint	CSA Listed	240V 50/60Hz 1000w 4.2A	41 lb. (18.5kg)	F47910	**10-554-3**	2880.00
6 × 5 × 4" (15 × 13.7 × 10cm)	15.5 × 11.3 × 18.5" (39 × 28.5 × 47cm)	A1 - digital single setpoint	CSA Listed	120V 50/60Hz 1000w 8.3A	41 lb. (18.5kg)	F47915	**10-554-5**	2860.00
6 × 5 × 4" (15 × 13.7 × 10cm)	15.5 × 11.3 × 18.5" (39 × 28.5 × 47cm)	B1 - digital single setpoint with 1 ramp		120V 50/60Hz 1000w 8.3A	41 lb. (18.5kg)	F47925	**10-554-9**	4250.00

Contd. on the next page.

Thermolyne™ Benchtop Muffle Furnaces, Contd.

Interior D × W × H	Exterior L × W × H	Control	Standards	Electrical	Shipping Weight	Mfr. No.	Cat. No.	Each
0.07 cu. ft. (2L) Capacity								
6 × 5 × 4" (15 × 13.7 × 10cm)	15.5 × 11.3 × 18.5" (39 × 28.5 × 47cm)	C1 - programmable with 1 program, 8 segments		240V 50/60Hz 1000w 4.2A	41 lb. (18.5kg)	F47920-80	**10-505-59**	5370.00
6 × 5 × 4" (15 × 13.7 × 10cm)	15.5 × 11.3 × 18.5" (39 × 28.5 × 47cm)	C1 - programmable with 1 program, 8 segments		120V 50/60Hz 1000w 8.3A	41 lb. (18.5kg)	F47925-80	**10-505-60**	5340.00
0.2 cu. ft. (5.8L) Capacity								
10 × 7 × 5" (25 × 18 × 13cm)	19.5 × 13.3 × 19" (50 × 34 × 19cm)	A1 - digital single setpoint	CSA Listed	240V 50/60Hz 1800w 7.5A	60 lb. (27.2kg)	F48010	**10-554-15**	3340.00
10 × 7 × 5" (25 × 18 × 13cm)	19.5 × 13.3 × 19" (50 × 34 × 19cm)	C1 - programmable with 1 program, 8 segments		240V 50/60Hz 1800w 7.5A	60 lb. (27.2kg)	F48020-80	**10-505-57**	5940.00
10 × 7 × 5" (25 × 18 × 13cm)	19.5 × 13.3 × 19" (50 × 34 × 19cm)	C1 - programmable with 1 program, 8 segments		208V 50/60Hz 1560w 7.5A	60 lb. (27.2kg)	F48028-80	**10-505-56**	6600.00
10 × 7 × 5" (25 × 18 × 13cm)	19.5 × 13.3 × 19" (50 × 34 × 19cm)	D1 - Programmable with 4 programs, 16 segments		240V 50/60Hz 1800w 7.5A	60 lb. (27.2kg)	F48050	**10-554-23**	7490.00

Thermo Scientific™ Thermolyne™ Largest Tabletop Muffle Furnaces

1.6 cu. ft. (45.3L) capacity furnaces with choice of programmable or single-setpoint controller

- Advanced LED digital-set/digital-display temperature controller is microprocessor-controlled
- LED display simultaneously shows both setpoint and actual furnace temperatures in °C or °F
- User-selectable Overtemperature Protection
- Open thermocouple protection
- Adjustable power output from 1 to 100%

Safety and Design Features

- Heating elements are on chamber top, bottom and sides for enhanced temperature uniformity
- Built-in vent port removes undesirable contaminants and moisture to extend the life of the element and unit
- Rear of chamber incorporates a 0.95cm (0.38") diameter port for monitoring chamber temperatures with independent measuring devices
- Critical electronic components and heating elements are protected by a 35A circuit breaker
- Door safety switch stops power to the heating elements when door opens

Choice of Temperature Controllers

- Furnaces that use B1, C1 or D1 control also use a mechanical Overtemperature Protection relay
- B1: Digital single setpoint control with a single ramp to setpoint and dwell; single display shows actual temperature or setpoint
- C1: Digital programmable control with one stored program of eight segments
- D1: Digital programmable control with four stored programs, 16 segments per program and RS-232 communications interface

INCLUDES: Two refractory shelves

REQUIRES:
Electrical connection requires fixed wiring (no power cord).

CERTIFICATIONS:
All units CSA approved.

10-505 Series

Specifications	
Temperature Range	100° to 1093°C
Temperature Stability	±1.2°C at 1000°C
Temperature Uniformity	±3.45°C
Capacity	45L (1.6 cu. ft.)
Interior D × W × H	36 × 36 × 36cm (14 × 14 × 14")
Exterior L × W × H	64.7 × 54.6 × 74.9cm (25.5 × 21.5 × 29.5")
Shipping Weight	117.9kg (260 lb.)
Power Consumption	5500w

Control	Electrical Requirements	Mfr. No.	Cat. No.	Each
Digital programmable w/4 programs, 16 segments each (D1)	208V 50/60Hz	F30438CM	**10-505-14**	13,320.00
Digital single setpoint w/ramp and dwell (B1)	208V 50/60Hz	F30428C	**10-505-13**	11,040.00
Digital single setpoint w/ramp and dwell (B1)	240V 50/60Hz	F30420C	**10-505-10**	10,200.00
Digital programmable w/4 programs, 16 segments each (D1)	240V 50/60Hz	F30430CM	**10-505-62**	13,320.00

Thermo Scientific™ Thermolyne™ Premium Large Muffle Furnaces

Robust design and a choice of four temperature controller models, perfect for industrial applications

- Four heating elements are located on the chamber top, bottom and sides for enhanced temperature uniformity
- Built-in vent port removes undesirable contaminants and moisture to extend the life of the element and unit
- Rear of the chamber incorporates a 0.95cm (0.38") dia. port for monitoring chamber temperatures with independent measuring devices
- Optional stainless-steel shelf doubles load capacity (maximum temperature of 900°C)
- Door safety switch stops power to heating elements when door opens
- Thermocouple break protection cuts power to the heating elements, preventing a thermocouple failure runaway condition
- Furnaces with B1, C1 and D1 control also use a mechanical overtemperature protection relay

Choice of Temperature Controllers

- Digital single setpoint control (A1): Single display shows actual temperature or setpoint
- Digital single setpoint control with single ramp to setpoint and a dwell (B1): Single display shows actual temperature or setpoint
- Digital programmable control with one stored program of eight segments (C1)
- Digital programmable control with four stored programs, 16 segments per program (D1): Controller includes RS-232 communications

INCLUDES: Model 10-557A includes a cord and plug set.

REQUIRES: All except Model 10-557A requires a conduit connection.

CERTIFICATIONS: All units CSA approved; no CE mark.

10-507 Series

Specifications	
Temperature Range	100° to 1200°C (212° to 2192°F)
Temperature Stability	±0.3°C at 1000°C
Temperature Uniformity	±2.2°C at 1000°C
Capacity	14L (0.5 cu.ft.)
Interior D × W × H	25 × 33 × 18cm (10 × 12.8 × 6.8")
Exterior L × W × H	51 × 48.5 × 53.3cm (20.1 × 19.1 × 21")
Shelf	Stainless steel
Shipping Weight	60.8kg (134 lb.)

Control	Temperature Stability	Temperature Uniformity	Electrical Requirements	Amperage	Power Consumption	Mfr. No.	Cat. No.	Each
Digital single setpoint (A1)	±0.3°C at 1000°C	±2.2°C at 1000°C	240V 50/60Hz	12.9A	3095w	F6010	**10-557A**	4290.00
Digital single setpoint with ramp and dwell (B1)	±1.5°C at 1000°C	±4.5°C at 1000°C	240V 50/60Hz	18.3A	4400w	F6020C	**10-557C**	7270.00
Digital programmable with 4 programs, 16 segments each (D1)	±0.2°C at 1000°C	±2.2°C at 1000°C	240V 50/60Hz	18.3A	4400w	F6030CM	**10-557E**	11,140.00

Thermo Scientific™ Thermolyne™ Industrial Benchtop Muffle Furnaces

Compact, heavy-duty benchtop furnaces offer choice of single-setpoint or programmable control

- Adjustable Alarm or Overtemperature Protection setting can be used to protect the furnace or loaded chamber from excessive heat
- Thermocouple break protection cuts power to the heating elements, preventing a thermocouple failure runaway condition
- Counter-weighted door swings upward, directing heat away from operator
- Heavy-duty firebrick insulation surrounds chamber opening for added durability
- Four individual embedded elements in special refractory cement permit excellent heat distribution in the chamber
- Door safety switch protects operator by removing power to the heating elements upon opening the door
- Rear-mounted 0.38" (0.95cm) diameter port for monitoring chamber temperatures with independent measuring devices
- LED display simultaneously shows both setpoint and actual furnace temperatures in either °C or °F (programmable models only)

Single-setpoint Controller (B1)

- Single ramp to setpoint and a dwell
- Single display shows actual temperature or setpoint

8-step Programmable Controller (C1)

- Ramps to vary heat-up rate and dwell cycles to hold temperature at set levels from 0.1 to 999.9 minutes
- "Holdback" feature holds program until furnace temperature heats up or cools down to preprogrammed parameters — program will never outrun furnace performance

INCLUDES: Oven, Platinel™ II thermocouple and a ceramic hearth plate to protect the bottom heating element

10-554 Series

CERTIFICATIONS: All units cUL, UL listed.

NOTES: 120V models require fixed wiring and are not supplied with a power cord.

Specifications	
Temperature	100° to 1200°C
Capacity	2.2L (0.08 cu. ft.)
Interior D × W × H	22.8 × 10.1 × 9.5cm (9 × 4 × 3.75")
Exterior L × W × H	45.7 × 27.9 × 41.9cm (18 × 11 × 16.5")
Shipping Weight	23.5kg (52 lb.)

Controller	Voltage	Mfr. No.	Cat. No.	Each
8-Step Programmable	120V 50/60Hz, 2240w	FD1545M	**10-554-28**	4340.00
	240V 50/60Hz, 2240w	FD1540M	**10-554-26**	4260.00
Single-Setpoint	120V 50/60Hz, 2240w	FD1535M	**10-554-27**	3660.00
	240V 50/60Hz, 2240w	FD1530M	**10-554-29**	3660.00

Furniture

Cabinets

Base

Hamilton Scientific™ Acid-Storage Cabinets

Use to store acid containers or as base cabinets for fume hoods

- For use with fume hoods
- Resisto-Roc 0.25" thick (6.4mm) lining resists chemical spills
- Full-width shelf adjusts up or down in 0.5" (13mm) increments
- With hinged double doors, flush front panel above cupboard and recessed toespace
- Vent access at rear (10" [25.4cm] from right end)
- Use optional polyolefin vent assembly (HM90L06000) to vent to fume hood

ORDERING INFORMATION:
Worktops must be ordered separately. Cabinets measure 21.625L × 35.25"H (54.9 × 89.5cm).

Width	Cat. No.	Each
30" (76.2cm)	**HM144H5320B**	1945.00
36" (91.4cm)	**HM144H6320B**	2100.00
48" (121.9cm)	**HM144H8320B**	2420.00

HM144H8320B

Hamilton Scientific™ Base Cabinets for Fume Hoods

Each Hamilton Scientific steel standing-height cabinet has two solid hinged doors, flush-front panel, recessed toespace and back service access.

- Made of 18-gauge steel reinforced at stress points for extra rigidity
- Urethane powder coating provides high chemical resistance and durability
- Choice of three widths: 30, 36, and 48" (76.2, 91.4, and 121.9cm)
- All base cabinets measure 21.625L × 35.25"H (54.9 × 89.5cm)
- Order worktops separately

Width	Cat. No.	Each
30" (76.2cm)	**HM121H5320B**	1297.00
36" (91.4cm)	**HM121H6320B**	1407.00
48" (121.9cm)	**HM121H8320B**	1484.17

HM121H5320B

THINK GREEN

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

*Trademark. See Trademarks at www.fishersci.com

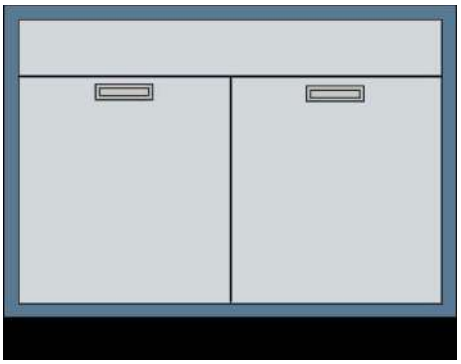
Prices subject to change.

Hamilton Scientific™ Standing-Height Sink Base Cabinets

- Choose from standard sink cabinets (installed inline with other units) or end cabinets (installed perpendicularly to other cabinets in row). All have solid hinged doors, back cutout to accommodate large sinks, and include sink supports.
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm)

ORDERING INFORMATION:
Worktops, sinks, fixtures, outlets and piping must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. See link to PDF for color choices. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM115H6320B

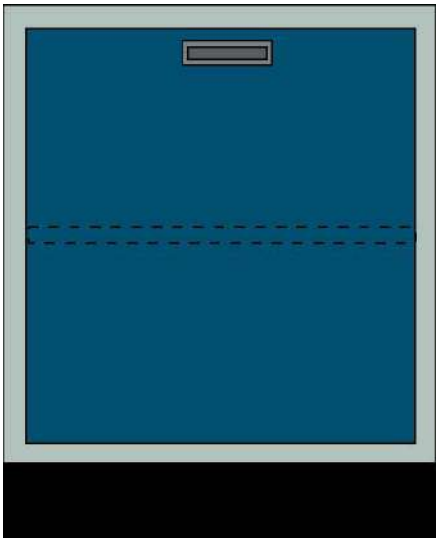
Width	Type	Cat. No.	Each
30" (76.2cm)	Standard	**HM115H5320B**	1206.95
36" (91.4cm)	Standard	**HM115H6320B**	1274.00
48" (121.9cm)	Standard	**HM115H8320B**	1370.00
52" (132.1cm)	End	**HM116H7320B**	1730.13
58" (147.3cm)	End	**HM118H9320B**	1880.00

Hamilton Scientific™ Sitting-Height Base Cabinets With One Cupboard Door

- One double-walled door with sound-deadening material
- Coved edges make them easy to clean and corrosion-free
- Hinged on the right or left side
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- One shelf adjustable in 0.5" (1.3cm) increments
- Overall dimensions: 21.625D × 29.325"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Check color choices in PDF linked to this page. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



Hamilton Scientific Sitting-Height Single Base Cabinet

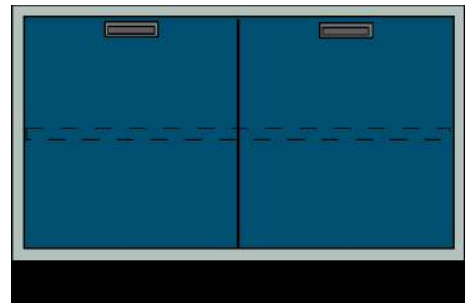
Width	Hinge Side	Cat. No.	Each
18" (45.7cm)	Right	**HM102H2220B**	935.77
18" (45.7cm)	Left	**HM103H2220B**	935.77
24" (61cm)	Right	**HM102H4220B**	1012.00
24" (61cm)	Left	**HM103H4220B**	1002.00

Hamilton Scientific™ Sitting-Height Base Cabinets With Two Cupboard Doors

- Two double-walled doors with sound-deadening material
- Coved edges make them easy to clean and corrosion-free
- Hinged on the right and left side
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- One shelf adjustable in 0.5" (1.3cm) increments
- Overall dimensions: 21.625D × 29.375"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.



Hamilton Scientific Sitting-Height Double Base Cabinet

Width	Cat. No.	Each
36" (91.4cm)	**HM106H6220B**	1300.62
48" (121.9cm)	**HM106H8220B**	1553.71

Hamilton Scientific™ Sitting-Height Cabinets with Cupboard Door, 4.5"H Drawer, Pullboard

- One cupboard door, 4.5" high (11.4cm) drawer, and pullboard
- Coved edges make them easy to clean and corrosion-free
- Drawers self-close for safety, but can be locked open to allow hands-free access
- Doors can be hinged on the right or left side
- Sound-deadening material in door and drawers
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- Overall dimensions: 21.625D × 29.375"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.

Hamilton Scientific Sitting Height Cabinet

Width	Hinge Side	Cat. No.	Each
18" (45.7cm)	Right	**HM126H2220B**	1365.52
18" (45.7cm)	Left	**HM127H2220B**	1365.52
24" (61cm)	Right	**HM126H4220B**	1659.80
24" (61cm)	Left	**HM127H4220B**	1372.59

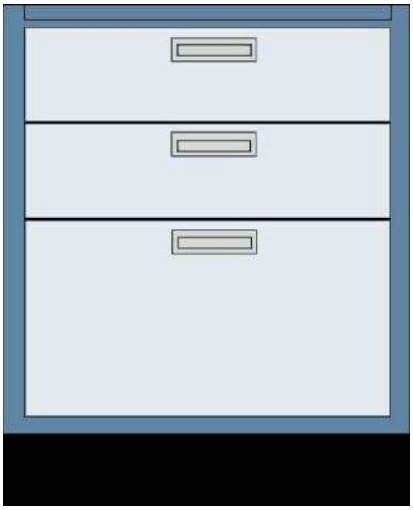
*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Hamilton Scientific™ Sitting-Height Cabinets with Two 4.5" high (11.4cm) Drawers, One 10.25" high (26cm) File Drawer, Pullboard

- With two 4.5" high (11.4cm) drawers, one 10.25" high (26cm) file drawer, and pullboard
- File drawer equipped with full-extension slides
- Drawers self-close for safety, but can be locked open to allow hands-free access
- Coved edges make them easy to clean and corrosion-free
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- Overall dimensions: 21.625D × 29.375"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM130H4220B

Width	Cat. No.	Each
18" (45.7cm)	**HM130H2220B**	1628.12
24" (61cm)	**HM130H4220B**	1859.41

Hamilton Scientific™ Sitting-Height Cabinets with Four 4.51"H (11.4cm) drawers and Pullboard

- With four 4.5" high (11.4cm) drawers and pullboard
- Drawers self-close for safety, but can be locked open to allow hands-free access
- Coved edges make them easy to clean and corrosion-free
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- Overall dimensions: 21.625D × 29.375"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.

HM133H4220B

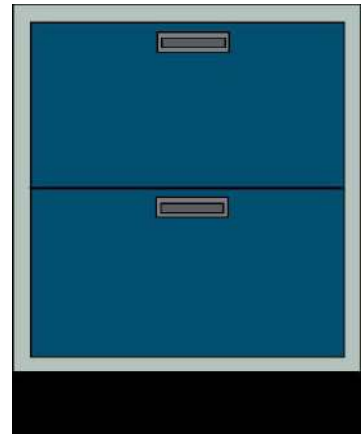
Width	Cat. No.	Each
18" (45.7cm)	**HM133H2220B**	1923.00
24" (61cm)	**HM133H4220B**	1966.47

Hamilton Scientific™ Sitting-Height Base Cabinets With Two 10.25"H File Drawers

- Two 10.25" high (26.7cm) file drawers with sound-deadening material
- Full-extension slides; self-close for safety, but can be locked open to allow hands-free access
- Coved edges make them easy to clean and corrosion-free
- Hinged on the right or left side
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- Overall dimensions: 21.625D × 29.375"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM168H6220B

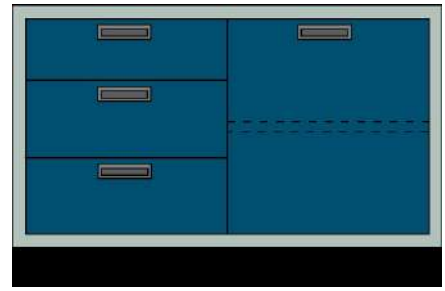
Width	Cat. No.	Each
18" (45.7cm)	**HM140H2220B**	1264.04
24" (61cm)	**HM140H4220B**	1560.45

Hamilton Scientific™ Sitting-Height Cabinets with one 4.5"H Drawer, two 7.375"H Drawers, Cupboard

- One half-width 4.5" high (11.4cm) drawer above two half-width 7.375" high (18.7cm) drawers alongside right-hinged cupboard
- Drawers self-close for safety, but can be locked open to allow hands-free access
- Coved edges make them easy to clean and corrosion-free
- Backs include a cutout for service access; if cabinet backs are exposed, a finished back is required
- Leveler access through the toespace
- One shelf adjustable in 0.5" (1.3cm) increments
- Overall dimensions: 21.625D × 29.375"H (54.9 × 74.6cm)

ORDERING INFORMATION:
Worktops must be ordered separately. The Cat. Nos. and prices listed are for Modular Steel cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available (call your Fisher Scientific™ Customer Service Representative for ordering information).

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM168H6220B

Width	Cat. No.	Each
36" (91.4cm)	**HM168H6220B**	2270.00

SETTING UP A NEW LAB CAN BE OVERWHELMING. LET US HELP.

The Fisher Scientific New Lab Start-Up Program is an effective, economical way to obtain exclusive money-saving offers on the supplies you need. We've teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products for your new lab. Visit **www.fishersci.com/newlab** to apply today!

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Prices subject to change.

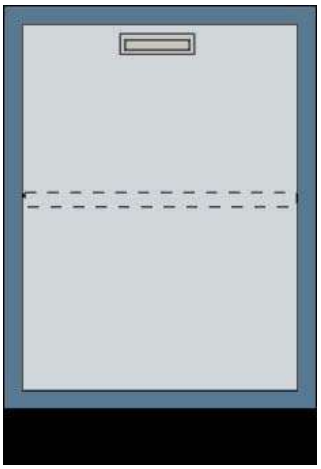
Hamilton Scientific™ Standing-Height Base Cabinets With One Cupboard Door

- With one cupboard door
- Sound-deadening material in doors and drawers
- One shelf adjustable in 0.5$^1/_2$" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

Hinge Side	Width	Cat. No.	Each
Right	18" (45.7cm)	**HM102H2320B**	956.98
Right	24" (61cm)	**HM102H4320B**	1039.20
Left	18" (45.7cm)	**HM103H2320B**	954.96
Left	24" (61cm)	**HM103H4320B**	1054.00

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



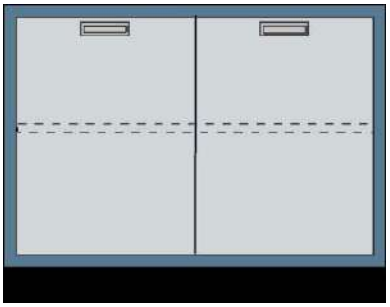
HM102H2320B

Hamilton Scientific™ Standing-Height Base Cabinets With Two Hinged Cupboard Doors

- With two hinged cupboard doors
- Sound-deadening material in doors and drawers
- One shelf adjustable in 0.5" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM106H8320B

Width	Cat. No.	Each
30" (76.2cm)	**HM106H5320B**	1296.61
36" (91.4cm)	**HM106H6320B**	1335.00
48" (121.9cm)	**HM106H8320B**	1579.00

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

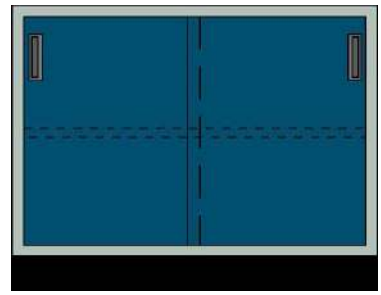
Hamilton Scientific™ Standing-Height Steel Base Cabinet With Solid Sliding Double Doors

Standard cabinets without lock

- Two solid sliding double doors
- With cutout for service access; if cabinet backs are exposed, a finished back is required
- Toespace area includes a cutout to allow leveler access
- Includes one shelf adjustable in 1.3cm (0.5") increments
- Overall dimensions: 54.9D × 89.5cm H (21.62 × 35.25")

ORDERING INFORMATION:
Work surfaces must be ordered separately. Available in 18 standard colors with special powder coating finish. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Contact your Fisher Scientific™ Customer Service Representative for information.

NOTES:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM109H8320B

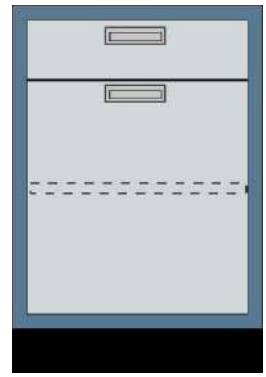
Width	Cat. No.	Each
36" (91.4cm)	**HM109H6320B**	1497.86
48" (121.9cm)	**HM109H8320B**	1780.00

Hamilton Scientific™ Standing-Height Base Cabinets With one cupboard door and one 4.5" high (11.4cm) drawer

- Sound-deadening material in doors and drawers
- One shelf adjustable in 1/2" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25H" (55 × 90cm)

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM136H2320B

Hinge Side	Width	Cat. No.	Each
Right	18" (45.7cm)	**HM136H2320B**	1295.83
Right	24" (61cm)	**HM136H4320B**	1343.30
Left	18" (45.7cm)	**HM137H2320B**	1271.59
Left	24" (61cm)	**HM137H4320B**	1343.30

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

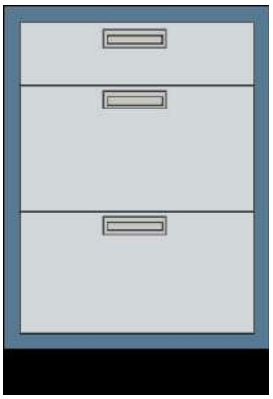
Hamilton Scientific™ Standing-Height Base Cabinets with one 4.5" high (11.4cm) Drawer and two 10.25" high (26cm) File Drawers

- With one 4.5" high (11.4cm) drawer and two 10.25" high (26cm) file drawers
- Sound-deadening material in drawers
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

Width	Cat. No.	Each
18" (45.7cm)	**HM141H2320B**	1540.00
24" (61cm)	**HM141H4320B**	1854.36

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



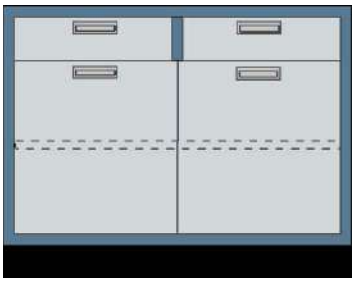
HM141H2320B

Hamilton Scientific™ Standing-Height Base Cabinets with two cupboard doors and two half-width 4.5" high (11.4cm) drawers

- With two cupboard doors and two half-width 4.5" high (11.4cm) drawers
- Double-walled doors
- Sound-deadening material in doors and drawers
- One shelf adjustable in 0.5" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM148H8320B

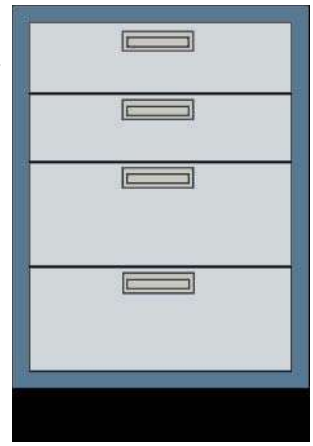
Width	Cat. No.	Each
36" (91.4cm)	**HM148H6320B**	1918.00
42" (106.7cm)	**HM148H7320B**	2151.30
48" (121.9cm)	**HM148H8320B**	2040.00

Hamilton Scientific™ Standing-Height Base Cabinets with two 4.5" high (11.4cm) drawers and two 7.375" high (18.7cm) drawers

- With two 4.5" high (11.4cm) drawers and two 7.375" high (18.7cm) drawers
- Sound-deadening material in doors and drawers
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM164H2320B

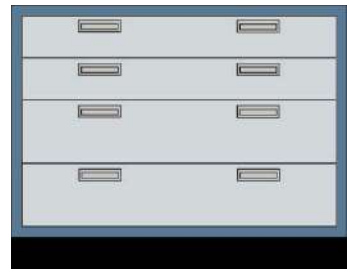
Width	Cat. No.	Each
18" (45.7cm)	**HM164H2320B**	1833.15
24" (61cm)	**HM164H4320B**	1865.32

Hamilton Scientific™ Standing-Height Base Cabinets two Full-width 4.5" high (11.4cm) Drawers and two Full-width 7.375" high (18.7cm) Drawers

- With two full-width 4.5" high (11.4cm) drawers and two full-width 7.375" high (18.7cm) drawers
- Double-walled doors
- Sound-deadening material in doors and drawers
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM164H8320B

Width	Cat. No.	Each
36" (91.4cm)	**HM164H6320B**	2161.40
48" (121.9cm)	**HM164H8320B**	2340.00

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

*Trademark. See Trademarks at www.fishersci.com

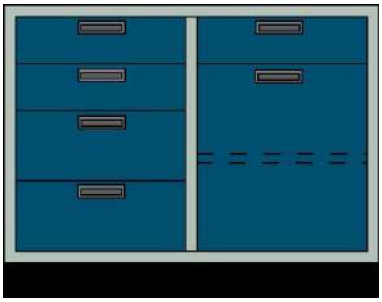
Prices subject to change.

Hamilton Scientific™ Cabinets with Two Half-width 4.5" high (11.4cm) Drawers and Two Half-width 7.375" high Drawers

- Two half-width 4.5" high (11.4cm) drawers and one half-width 4.5" high (11.4cm) drawer and two half-width 7.375" high (18.7cm) drawers alongside cupboard door
- Double-walled doors
- Sound-deadening material in doors and drawers
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Include one shelf adjustable in 0.5" (1.3cm) increments
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM177H6320B

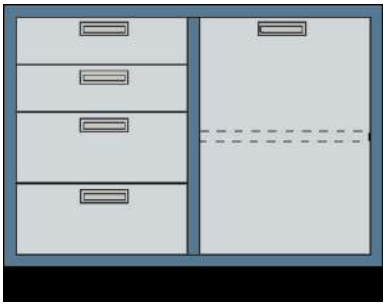
Width	Cat. No.	Each
36" (91.4cm)	**HM177H6320B**	2706.80

Hamilton Scientific™ Standing-Height Base Cabinets with one Cupboard Door

- With one cupboard door, two half-width 4.5" high (11.4cm) drawers, and two half-width 7.375" high (18.7cm) drawers
- Double-walled doors
- Sound-deadening material in doors and drawers
- One shelf adjustable in 0.5" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM180H8320B

Width	Cat. No.	Each
Right Door Cupboard		
36" (91.4cm)	**HM180H6320B**	2413.90
48" (121.9cm)	**HM180H8320B**	2494.70
Left Door Cupboard		
36" (91.4cm)	**HM181H6320B**	2413.90
48" (121.9cm)	**HM181H8320B**	2494.70

Hamilton Scientific™ Cabinets with Four Half-width 4.5" high (11.4cm) Drawers and Two Full-width 7.375" high (18.7cm) Drawers

- With four half-width 4.5" high (11.4cm) drawers and two full-width 7.375" high (18.7cm) drawers
- Sound-deadening material in drawers
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — item ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.

HM200H8320B

Width	Cat. No.	Each
36" (91.4cm)	**HM200H6320B**	2676.50
48" (121.9cm)	**HM200H8320B**	2870.00

Hamilton Scientific™ Cabinets with Four Half-width 4.5" high (11.4cm) Drawers and Four Half-width 7.375" high (18.7cm) Drawers

- With four half-width 4.5" high (11.4cm) drawers and four half-width 7.375" high (18.7cm) drawers
- Sound-deadening material in drawers
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 35.25"H (54.9 × 89.5cm).

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — item ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.

HM209H8320B

Width	Cat. No.	Each
36" (91.4cm)	**HM209H6320B**	3181.50
48" (121.9cm)	**HM209H8320B**	3141.10

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Prices subject to change.

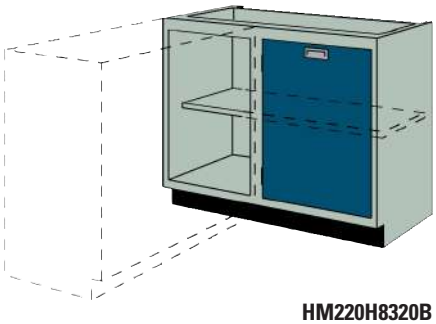
Hamilton Scientific™ Standing-Height Corner Base Cabinets

Corner base cabinets for use at corner of L-shaped assembly

- Solid hinged door on accessible portion; framed-in portion enclosed with steel panel
- Sound-deadening material in doors and drawers
- One shelf adjustable in 0.5" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required
- Overall dimensions: 21.625D × 48W × 35H.25" (55 × 122 × 90cm)

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM220H8320B

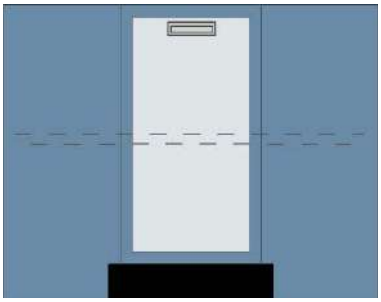
Description	Cat. No.	Each
Right Door Cupboard	HM220H8320B	1511.00
Left Door Cupboard	HM221H8320B	1489.04

Hamilton Scientific™ Standing-Height Diagonal-type Corner Base Cabinets

- Right-hinged door
- Sound-deadening material in doors and drawers
- One shelf adjustable in 0.5" (1.3cm) increments
- Toespace area includes a cutout to allow leveler access; if cabinet backs are exposed, a finished back is required

ORDERING INFORMATION:
Worktops must be ordered separately. Modular Steel cabinets are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available. Contact your Fisher Scientific™ Customer Service Representative for information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.



HM422H6320B

W × H	Cat. No.	Each
$32^{7}/_{8} \times 35^{1}/_{4}$" (84 × 90cm)	**HM422H6320B**	1560.00

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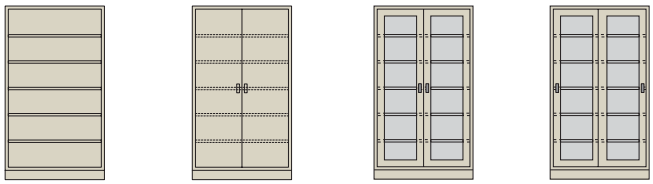
The Fisher Scientific New Lab Start-Up Program is an effective, economical way to obtain exclusive money-saving offers on the supplies you need. We've teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products for your new lab. Visit **www.fishersci.com/newlab** to apply today!

Floor

Hamilton Scientific™ Floor Cabinets

Provide more storage space — without taking up more floor space



From left: Solid Hinged Double Door, Framed Glass Hinged Double Door

- All cabinets are 84.625" high (214.9cm) and protrude 22" (55.9cm) from wall
- Glass in door is 0.22" thick (5.5mm) float glass
- Supplied with five shelves adjustable in 0.5" (1.3cm) increments

ORDERING INFORMATION:
Cat. Nos. and prices listed here are for Modular Steel™ cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available — call your Fisher Scientific™ Customer Service Representative for ordering information.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.

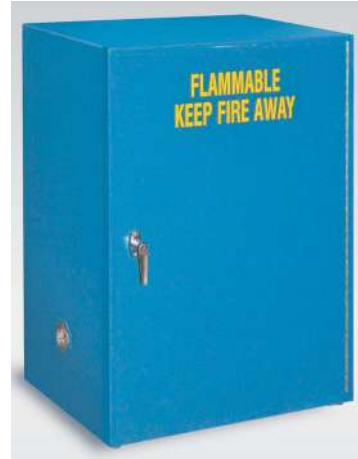
Description	Width	Cat. No.	Each
Open Front	36" (91.4cm)	**HM800H6920**	2014.41
	48" (121.9cm)	**HM800H8920**	2324.34
Solid Hinged Double Door	36" (91.4cm)	**HM806H6920B**	3160.00
	48" (121.9cm)	**HM806H8920B**	3578.10
Framed Glass Hinged Double Door	36" (91.4cm)	**HM812H6920B**	3190.00
	48" (121.9cm)	**HM812H8920B**	4580.00
Framed Glass Sliding Double Door	36" (91.4cm)	**HM818H6920B**	4100.00
	48" (121.9cm)	**HM818H8920B**	4160.00

Hamilton Scientific™ SafeStor™ Solvent Storage

Provide safe storage of solvents

The Hamilton Scientific SafeStor cabinets feature heavy-duty load-bearing capacity and are available in three vibrant colors: red, yellow and blue.

- Optional vents for fume hood piping
- Shelves are adjustable in nominal 1" increments
- Choose from single door and double door styles in a variety of sizes



ALERTS:
Exceptions to the FM 6050 listing are product numbers 950S8740 and 950S8750.

Dimensions stated are with levelers retracted.

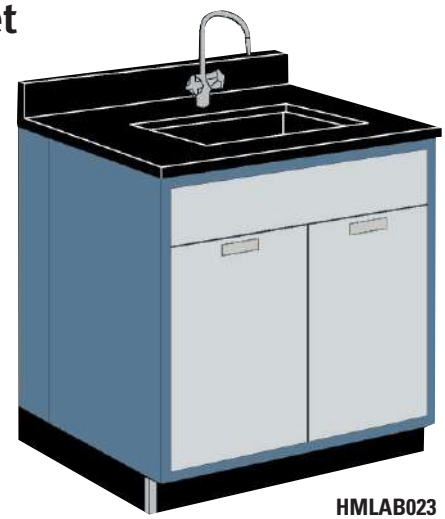
D × W × H	Capacity	Mfr. No.	Cat. No.	Each
Double manual closing door				
45.7 × 106.7 × 46.7cm	12 gal.	HM950S8720	**HM950S8720**	2350.00
30.5 × 106.7 × 111.8cm	20 gal.	HM950S8790	**HM950S8790**	3130.00
45.7 × 106.7 × 111.8cm	30 gal.	HM950S8650	**HM950S8650**	2960.00
61 × 91.4 × 88.9cm	30 gal.	HM950S8670	**HM950S8670**	3340.00
Double self-closing door				
54.9 × 91.4 × 89.5cm	22 gal.	HM950S8810	**HM950S8810**	4050.00
45.7 × 106.7 × 111.8cm	30 gal.	HM950S8660	**HM950S8660**	3680.00
86.4 × 91.4 × 165.1cm	60 gal.	HM950S8710	**HM950S8710**	4420.00
Single self-closing door				
43.2 × 43.2 × 559cm	4 gal.	HM950S8750	**HM950S8750**	2450.00

Hamilton Scientific™ Modular Steel Sink Cabinet Workstation Assemblies

- Complete single-cabinet standing-height sink assembly with filler panels
- Includes 1" thick (2.5cm) black epoxy resin worktop with backsplash, deck-mount mixing faucet and plastic P-trap
- Black epoxy resin sink measures 24L × 16W × 8"D (61 × 40.6 × 20.3cm)
- Assembly measures 30D × 35.25"H (76.2 × 89.5cm) with countertop
- Assembly required

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Length	Cat. No.	Each
3' (91.4cm)	**HMLAB023**	3490.35
4' (121.9cm)	**HMLAB024**	3830.00



HMLAB023

Wall

Hamilton Scientific™ Wall Cabinets

- Cabinets are 18-gauge steel with one-piece, wraparound design
- Glass in glass-door models is 0.22" thick (5.5mm) float glass
- With sturdy, integral finished backs, soffit bottoms and hanger rails for mounting
- All cabinets are 31" high (78.7cm), protrude 13" (33cm) from wall, and are supplied with two shelves, adjustable in 0.5" (1.3cm) increments

ORDERING INFORMATION:
Cat. Nos. and prices listed here are for Modular Steel™ cabinets that are part of our QuickShip program — items ship in 4 weeks. Wood and Plastic Laminate cabinets are also available — call your Fisher Scientific™ Customer Service Representative for ordering information.

Style	Width	Cat. No.	Each
Open Front	36" (91.4cm)	**HM700H6330**	1058.22
	48" (121.9cm)	**HM700H8330**	1307.95
Solid Hinged Double Door	36" (91.4cm)	**HM706H6330B**	1508.94
	48" (121.9cm)	**HM706H8330B**	1816.00
Framed Glass Hinged Double Door	36" (91.4cm)	**HM712H6330B**	1540.00
	48" (121.9cm)	**HM712H8330B**	2222.00
Solid Sliding Double Door	36" (91.4cm)	**HM715H6330B**	1397.00
	48" (121.9cm)	**HM715H8330B**	1868.41
Framed Glass Sliding Double Door	36" (91.4cm)	**HM718H6330B**	2120.00
	48" (121.9cm)	**HM718H8330B**	2300.00
Unframed Glass Sliding Double Door	36" (91.4cm)	**HM722H6330**	1499.77
	48" (121.9cm)	**HM722H8330**	1477.00

HM706H6330B and HM712H6330B

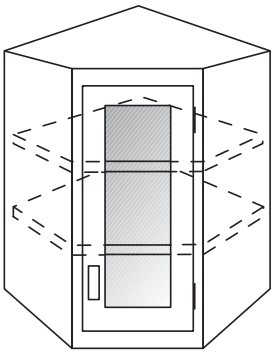
ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific Sales or Customer Service Representative for color selection information.

Hamilton Scientific™ Corner Wall Cases

With framed glass, right-hinged door

- With soffit bottoms
- Standard models without locks
- Includes two shelves, adjustable in 1.27cm (0.5") increments
- Comes with integral finished backs and fixed hanger rails; includes wall hanger cleats
- Doors are made of 0.56cm thick (0.22") glass

Door Type	D × W × H	Cat. No.	Each
Framed glass, right-hinged	13 × 18 × 25.7" (33 × 45.7 × 65.2cm)	**HM724H2330B**	1692.00



HM724H2330B

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

Tables

Hamilton Scientific™ Laboratory Tables — Modular Steel

- Steel laboratory tables available with either an epoxy resin work surface or a chemical-resistant, high-pressure Chemsurf laminate
- Assembly required
- Tops attach with a silicone-based adhesive (included)

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Modular Steel

				With Epoxy Resin Worktop		With Chemsurf Laminate	
Width	Height	Depth	No. of Drawers	Cat. No.	Each	Cat. No.	Each
36" (91.4cm)	30" (76.2cm)	24" (61cm)	1	**HM950H330BR**	1264.00	**HM950H330BC**	1148.00
36" (91.4cm)	30" (76.2cm)	30" (76.2cm)	1	**HM950H331BR**	1413.00	**HM950H331BC**	1217.00
48" (121.9cm)	30" (76.2cm)	24" (61cm)	2	**HM950H334BR**	1629.00	**HM950H334BC**	1411.00
48" (121.9cm)	30" (76.2cm)	30" (76.2cm)	2	**HM950H335BR**	1747.00	**HM950H335BC**	1949.00
60" (152.4cm)	30" (76cm)	24" (61cm)	2	**HM950H338BR**	1782.95	**HM950H338BC**	1465.00
60" (152.4cm)	30" (76.2cm)	30" (76.2cm)	2	**HM950H339BR**	1971.00	**HM950H339BC**	1597.00
72" (182.9cm)	30" (76.2cm)	30" (76.2cm)	3	**HM950H343BR**	2390.00	**HM950H343BC**	1975.00
36" (91.4cm)	36" (91.4cm)	24" (61cm)	1	**HM950H380BR**	1291.00	**HM950H380BC**	1165.00
36" (91.4cm)	36" (91.4cm)	30" (76.2cm)	1	**HM950H381BR**	1440.00	**HM950H381BC**	1228.00
48" (121.9cm)	36" (91.4cm)	24" (61cm)	2	**HM950H384BR**	1651.00	**HM950H384BC**	1429.00
48" (121.9cm)	36" (91.4cm)	30" (76.2cm)	2	**HM950H385BR**	1784.00	**HM950H385BC**	1971.00
60" (152.4cm)	36" (91.4cm)	24" (61cm)	2	**HM950H388BR**	1831.00	**HM950H388BC**	1483.00
60" (152.4cm)	36" (91.4cm)	30" (76.2cm)	2	**HM950H389BR**	1971.67	**HM950H389BC**	1619.00
72" (182.9cm)	36" (91.4cm)	24" (61cm)	3	**HM950H392BR**	2240.00	**HM950H392BC**	2212.00
72" (182.9cm)	36" (91.4cm)	30" (76.2cm)	3	**HM950H393BR**	2417.94	**HM950H393BC**	1993.00

Hamilton Scientific™ Four-Leg Adjustable-Height Tables

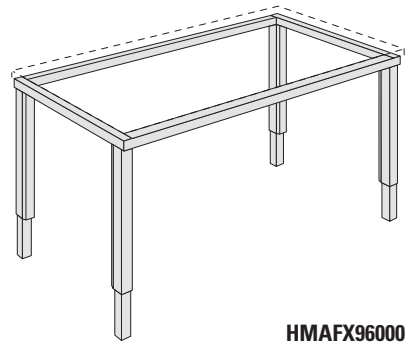
Durable steel tables require minimal tools for adjustment

- Powder painted steel construction
- Tables with lockable casters hold up to 136kg (300 lb.); tables with levelers hold up to 272kg (600 lb.)
- Height adjusts from 71 to 94cm (28 to 37")
- All table frames are 29" deep (74cm)

Width	Cat. No.	Each
With Casters		
91.4cm (36")	**HMAEX93600**	1268.00
121.9cm (48")	**HMAEX94800**	1318.19
With Levelers		
91.4cm (36")	**HMAFX93600**	1170.00
121.9cm (48")	**HMAFX94800**	1218.00
152.4cm (60")	**HMAFX96000**	1288.00

ORDERING INFORMATION:
Tables are part of our QuickShip program — items ship in 4 weeks of order placement.

REQUIRES:
Work surfaces must be ordered separately.



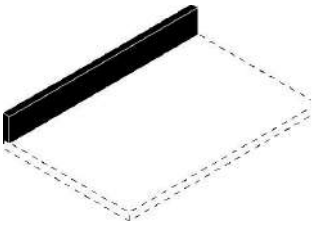
HMAFX96000

Work Surfaces

Epoxy Resin

Hamilton Scientific™ Curbs

- Black, chemical-resistant, 0.75" thick (1.9cm) × 4" high (10.2cm) epoxy resin
- Back curbs also available in high-pressure plastic laminate



ORDERING INFORMATION:
All work surfaces are part of our QuickShip program — items ship in 4 weeks of order placement

HM22L0436E

Length	Cat. No.	Each
Epoxy Resin Back Curb		
18" (45.7cm)	**HM22L0418E**	31.60
24" (61cm)	**HM22L0424E**	39.59
30" (76.2cm)	**HM22L0430E**	52.20
36" (91.4cm)	**HM22L0436E**	60.84
42" (106.7cm)	**HM22L0442E**	70.31
48" (121.9cm)	**HM22L0448E**	82.00
54" (137.2cm)	**HM22L0454E**	89.18
60" (152.4cm)	**HM22L0460E**	96.05
72" (182.9cm)	**HM22L0472E**	118.34
96" (243.8cm)	**HM22L0496E**	161.06
Epoxy Resin Side Curb		
22.75" (57.8cm)	**HM22L0423E**	37.60
28.75" (73cm)	**HM22L0429E**	49.15

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Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

Hamilton Scientific™ Linear Work Surfaces without Cutouts for Wall Assemblies

For sitting-height and standing-height base cabinets including HM220H8320B and HM221H8320B corner cabinets

HM21L2454E

- Installed individually or in assemblies
- 1" (2.5cm) thick black, chemical resistant epoxy resin or chemical-resistant laminate

ORDERING INFORMATION:
Order curb separately.

Depth	Width	Cat. No.	Each
Epoxy Resin			
61cm (24")	61cm (24")	**HM21L2424E**	264.00
61cm (24")	76.2cm (30")	**HM21L2430E**	326.00
61cm (24")	91.4cm (36")	**HM21L2436E**	395.50
61cm (24")	106.7cm (42")	**HM21L2442E**	454.42
61cm (24")	121.9cm (48")	**HM21L2448E**	527.00
61cm (24")	137.2cm (54")	**HM21L2454E**	593.00
61cm (24")	152.4cm (60")	**HM21L2460E**	655.84
61cm (24")	182.9cm (72")	**HM21L2472E**	791.50
61cm (24")	243.8cm (96")	**HM21L2496E**	1056.00
76.2cm (30")	61cm (24")	**HM21L3024E**	321.11
76.2cm (30")	76.2cm (30")	**HM21L3030E**	566.33
76.2cm (30")	91.4cm (36")	**HM21L3036E**	655.00
76.2cm (30")	106.7cm (42")	**HM21L3042E**	578.00
76.2cm (30")	121.9cm (48")	**HM21L3048E**	884.00
76.2cm (30")	137.2cm (54")	**HM21L3054E**	896.61
76.2cm (30")	152.4cm (60")	**HM21L3060E**	956.50
76.2cm (30")	182.9cm (72")	**HM21L3072E**	975.56
76.2cm (30")	213.4cm (84")	**HM21L3084E**	1110.09
76.2cm (30")	243.8cm (96")	**HM21L3096E**	1299.29
Chemical-Resistant Laminate			
61cm (24")	76.2cm (30")	**HM21L2430C**	198.40
61cm (24")	91.4cm (36")	**HM21L2436C**	386.00
61cm (24")	121.9cm (48")	**HM21L2448C**	514.50
61cm (24")	152.4cm (60")	**HM21L2460C**	411.00
61cm (24")	182.9cm (72")	**HM21L2472C**	489.50
76.2cm (30")	91.4cm (36")	**HM21L3036C**	489.50
76.2cm (30")	106.7cm (42")	**HM21L3042C**	270.50
76.2cm (30")	121.9cm (48")	**HM21L3048C**	1350.00
76.2cm (30")	152.4cm (60")	**HM21L3060C**	813.09
76.2cm (30")	182.9cm (72")	**HM21L3072C**	1016.57

Hamilton Scientific™ Corner Work Surfaces without Cutouts

- Measure 24 deep × 34.25" wide (61 × 87cm)
- HM422H6320B Corner Cabinet
- Black, chemical resistant, 1" thick (2.5cm)
- For assemblies without pipe chase
- Curbs must be ordered separately

ORDERING INFORMATION:
All work surfaces are part of our QuickShip program — items ship in 4 weeks of order placement.

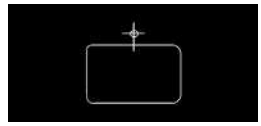
Material	Cat. No.	Each
Epoxy resin	**HM21L2434E**	639.59

Hamilton Scientific™ Linear Work Surfaces with Cutout for Epoxy Resin Sink for Wall Assemblies

For HM115H5320B, HM115H6320B, HM115H8320B, HM-116H7320B and HM118H9320B Sink Cabinets

1" thick (2.5cm) black, chemical-resistant epoxy resin work surface with 15D × 23"W (38.1 × 58.4cm) sink cutout (see epoxy resin sinks) and 1$^3/_8$" diameter (3.5cm) fixture hole (see fixtures).

- Curb must be ordered separately
- Not designed for use with stainless-steel sinks
- Work surface depth: 30" (76.2cm)

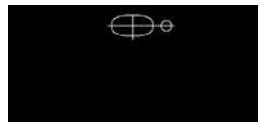


HM21L3054ES

Width	Cat. No.	Each
30" (76.2cm)	**HM21L3030ES**	566.11
36" (91.4cm)	**HM21L3036ES**	649.91
48" (121.9cm)	**HM21L3048ES**	923.00
54" (137.2cm)	**HM21L3054ES**	863.05
60" (152.4cm)	**HM21L3060ES**	965.77

Hamilton Scientific™ Linear Work Surfaces with Cutout for Epoxy Resin Cupsink for Wall Assemblies

- Black, chemical-resistant, 1" thick (2.5cm) epoxy resin work surface with cutout for HM34L19600 cupsink and 1.375" diameter (3.5cm) fixture hole (see fixtures)
- Curb must be ordered separately (right)
- Depth of work surface: 30" (76.2cm).



HM21L3048EC

ORDERING INFORMATION:
All work surfaces are part of our QuickShip program — items ship in 4 weeks of order placement.

Width	Cat. No.	Each
36" (91.4cm)	**HM21L3036EC**	621.64
48" (121.9cm)	**HM21L3048EC**	778.04
60" (152.4cm)	**HM21L3060EC**	935.50

Hamilton Scientific™ Corner Work Surfaces without Cutouts for Wall Assemblies with Pipe Chase

- Measure 30 deep × 40.25" wide (76.2 × 102.2cm)
- HM422H6320B Corner Cabinet
- Black, chemical resistant, 1" thick (2.5cm)
- For assemblies with pipe chase
- Curbs must be ordered separately

ORDERING INFORMATION:
All work surfaces are part of our QuickShip program — items ship in 4 weeks of order placement.

Material	Cat. No.	Each
Epoxy resin	**HM21L3040E**	1173.20

Hamilton Scientific™ Corner Work Surface with Cutout for Corner Epoxy Resin Sink for Wall Assemblies

- For HM422H6320B Corner Cabinet
- Black, chemical-resistant, 1" thick (2.5cm) epoxy resin corner work surface with 14 deep × 17" wide (35.6 × 43.2cm) sink cutout (see corner epoxy resin sinks in the research catalog) and 1$^3/_8$" diameter (3.5cm) fixture hole (see fixtures also in the catalog)
- Not designed for use with stainless-steel sinks
- Curbs must be ordered separately (below)

HM21L3040ES

ORDERING INFORMATION:
All work surfaces are part of our QuickShip program — items ship in 4 weeks of order placement.

Depth	Width	Cat. No.	Each
30" (76.2cm)	40.25" (102.2cm)	**HM21L3040ES**	1022.66

Fisher Scientific Think Green Program

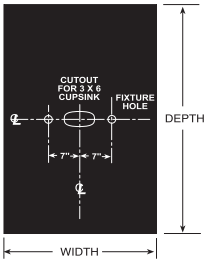
Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Hamilton Scientific™ Work Surfaces with Cupsink Cutouts for Island Assemblies

For Island assemblies

- 2.54cm thick (1") black, chemical resistant epoxy resin
- Cutout for cupsink (HM34L19600); fixture holes cutout dia. 3.5cm (1.37")



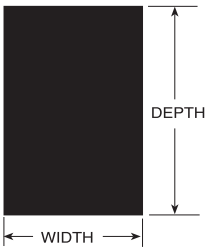
Work Surfaces with Cupsink Cutouts

Depth	Cat. No.	Each
Width: 61cm (24")		
54" (137.2cm)	**HM21L5424EC**	736.42
60" (152.4cm)	**HM21L6024EC**	804.26
Width: 76.2cm (30")		
54" (137.2cm)	**HM21L5430EC**	876.99
60" (152.4cm)	**HM21L6030EC**	967.44
Width: 91.4cm (36")		
54" (137.2cm)	**HM21L5436EC**	1032.51

Hamilton Scientific™ Work Surfaces without Cutouts for Island Assemblies

For Island assemblies

- 2.54cm thick (1") black, chemical resistant epoxy resin



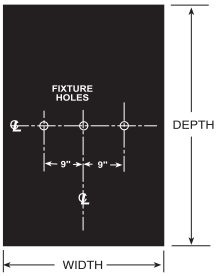
Work Surfaces w/o Cutouts for Island Assemblies

Depth	Cat. No.	Each
Width: 76.2cm (30")		
54" (137.2cm)	**HM21L5430E**	882.44
60" (152.4cm)	**HM21L6030E**	967.82
Width: 91.4cm (36")		
54" (137.2cm)	**HM21L5436E**	966.30
60" (152.4cm)	**HM21L6036E**	1017.05
Width: 121.9cm (48")		
54" (137.2cm)	**HM21L5448E**	1216.31
60" (152.4cm)	**HM21L6048E**	1320.27

Hamilton Scientific™ Work Surfaces with Fixture Cutouts for Island Assemblies

With 3.5cm dia. (1.37") cutout for fixture hole

- 2.54cm thick (1") thick black, chemical resistant epoxy resin



HM21L5436EE

Depth	Cat. No.	Each
Width: 91.4cm (36")		
137.2cm (54")	**HM21L5436EE**	930.73

Workstations

Floor

Hamilton Scientific™ Modular Steel Island Workstation Assemblies with End Sink

Island Assembly with End Sink

- Seven-cabinet standing-height island assembly with end sink
- Includes 1" thick (2.5cm) black epoxy resin worktop, deck-mount mixing faucet, plastic P-trap, four deck-mount double gas/air/vacuum cocks and two deck-mount double-faced duplex electrical outlet boxes
- Black epoxy resin sink measures 24L × 16W × 8" deep (61 × 40.6 × 20.3cm)
- Assembly measures 54D × 35¹/₄"H (137.2 × 89.5cm) with countertop assembly required

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Length	Cat. No.	Each
12.5' (350.5cm)	**HMLAB017**	19,836.40
11.5' (381cm)	**HMLAB018**	22,240.20

Hamilton Scientific™ Modular Steel QuickShip Island Workstation Assemblies with Sink and Shelving

- Seven-cabinet standing-height island assembly with end sink and 22.75" high (57.8cm) reagent shelving
- Includes 1" thick (2.5cm) black epoxy resin worktop, one deck-mount mixing faucet, plastic P-trap, one cupsink with one single-service faucet, five deck-mount double gas/air/vacuum cocks and two deck-mount double-faced duplex electrical outlet boxes
- Black epoxy resin sink measures 24L × 16W × 8"D (61 × 40.6 × 20.3cm)
- Assembly measures 54D × 35.25"H (137.2 × 89.5cm) with countertop; overall height, 58" (147.3cm)

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

HMLAB021

Length	Cat. No.	Each
11.5' (350.5cm)	**HMLAB021**	25,293.70

Wall

Hamilton Scientific™ Modular Steel Sitting-Height Wall Workstation Assemblies

HMLAB002

Three-cabinet sitting-height wall assembly with two knee areas

- Includes 1" thick (2.5cm) black epoxy resin worktop with curb
- Assembly measures 30D × 30 3/8"H (76.2 × 77.2cm) with countertop assembly required

ORDERING INFORMATION: Assembly required.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Length	Cat. No.	Each
8.5' (259.1cm)	**HMLAB001**	7160.90
10' (304.8cm)	**HMLAB002**	7910.00
10.5' (320cm)	**HMLAB003**	8110.30

Hamilton Scientific™ Modular Steel QuickShip Standing/Sitting-Height Wall Workstation Assemblies

HMLAB006

- Four-cabinet combination standing/sitting-height wall assembly with sink and two kneehole areas
- Includes 1" thick (2.5cm) black epoxy resin worktop with curb, deck-mount mixing faucet and plastic P-trap
- Standing-height portion measures 30D × 35.25"H (76.2 × 89.5cm) with worktop; Sitting-height portion measures 30 deep × 30.375" high (76.2 × 77.2cm) with countertop assembly required

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Length	Cat. No.	Each
14' (426.7cm)	**HMLAB004**	12,221.00
16' (487.7cm)	**HMLAB006**	13,182.76

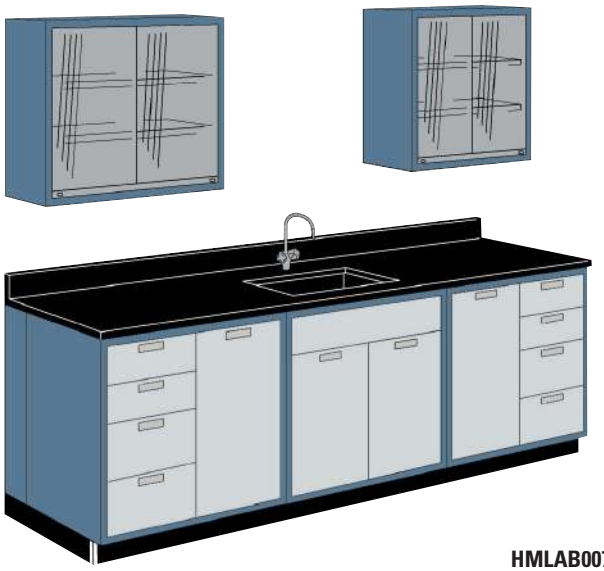
Hamilton Scientific™ Modular Steel QuickShip™ Standing-Height Wall Workstation Assemblies with Wall Cabinets

- Three-cabinet standing-height wall assembly with sink and two wall cabinets with unframed glass sliding double doors
- Includes 1" thick (2.5cm) black epoxy resin worktop with curb, deck-mount mixing faucet and plastic P-trap
- Assembly measures 30D × 36.25"H (76.2 × 92.1cm) with countertop

ORDERING INFORMATION:
Assembly required.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Length	Cat. No.	Each
9' (274.3cm)	**HMLAB007**	11,980.00
10' (304.8cm)	**HMLAB008**	12,400.88
11' (335.3cm)	**HMLAB009**	13,499.81
12' (365.8cm)	**HMLAB010**	13,680.46



HMLAB007

Hamilton Scientific™ Modular Wall Workstation with SafeAire™ Fume Hood

- Four-cabinet standing-height wall assembly with sink and a constant volume/bypass fume hood
- Includes 1" thick (2.5cm) black epoxy resin worktop with curb, deck-mount mixing faucet and plastic P-trap
- Measures 30D × 35.25"H (76.2 × 89.5cm) with countertop
- Fume hood superstructure is 48" wide (121.9cm) and equipped with four remote-control service fixtures for hot/cold water, gas/air/vacuum and cupsink
- Installation required

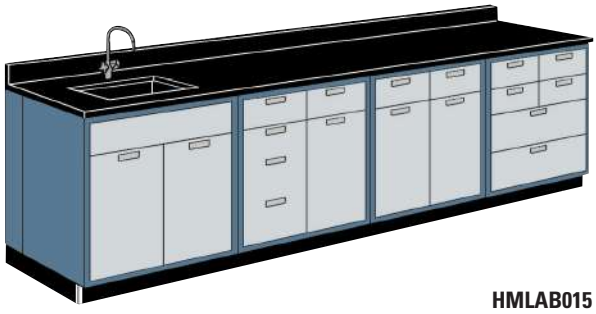
ORDERING INFORMATION:
Minimum height (floor to ceiling) of 110" (279.4cm) needed.
Assembly required.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

HMLAB011

Length	Cat. No.	Each
13' (396.2cm)	**HMLAB011**	18,900.00

Hamilton Scientific™ Modular Steel Standing-Height Wall Workstation Assemblies with Sink



HMLAB015

- Four-cabinet standing-height wall assembly with sink
- Includes 1" thick (2.5cm) black epoxy resin worktop with curb, deck-mount mixing faucet and plastic P-trap
- Assembly measures 30D × 35.25"H (76.2 × 89.5cm) with countertop
- Black epoxy resin sink measures 24L × 16W × 8"D (61 × 40.6 × 20.3cm)

ORDERING INFORMATION:
Assembly required.

ALERTS:
Color selection must be indicated to complete your order. You must specify the color for (a) the cabinet shell, and (b) drawer and door fronts. These colors may be the same or different. Contact your Fisher Scientific™ Sales or Customer Service Representative for color selection information.

Length	Cat. No.	Each
12' (365.8cm)	**HMLAB015**	12,270.00
14' (426.7cm)	**HMLAB016**	12,584.60

Chairs and Stools

Fisher Scientific™ Soil-Resistant Chairs

Ideal for work environments demanding materials impervious to oil and dirt

Biomechanically engineered, ergonomic chairs meet many stringent state and federal requirements, making compliance easy.

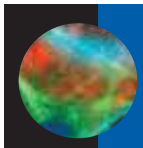
14-359-324

- High-profile, puncture-resistant polyurethane seat and back are perfect for areas where steam cleaning is a must
- Pneumatic mechanism controls seat height
- Flame-resistant and produced CFC-free
- Feature roomy 17.375L × 17.5W × 1.5"H thick (44.1 × 44.5 × 3.8cm) seat
- Backrest adjusts horizontally 3" (7.6cm) forward and 3" (7.6cm) backward; vertically 3" (7.6cm) up and 3" (7.6cm) down
- Backrest dimensions: 15W × 10H × 1.375" thick (38.1 × 25.4 × 3.5cm)
- Base diameter: 24" (61cm)

ORDERING INFORMATION:
Low-form chair has dual-wheel casters suitable for hard floors or carpet; high-form chair features choice of glides or casters and an adjustable 20" (50.8cm) chrome footrest. Available immediately from stock.

NOTES:
Fisher Scientific offers more chairs and stools suitable for the laboratory or office which are not shown here. For example, you may order chairs and stools with cast-aluminum or tubular bases. Call your Fisher Scientific Customer Service Representative for details and other options available in the Fisher Scientific selection of chairs and stools.

Description	Seat Height	L × W × H	Cat. No.	Each
Low form	17 to 22.5" (43.2 to 57.1cm)	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-324**	416.50
High form with glides	23.5 to 33.5" (59.7 to 85.1cm)	23.5 × 23.5 × 44" (59.7 × 59.7 × 111.8cm)	**14-359-320**	523.00



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Our Antibody Search Tool allows you to search our portfolio of over 80,000 antibodies. Searching for the right antibody is easier than ever by using the tool to narrow your search based on specific criteria below:

- Reactivity • Host • Label • Classification • Type
- Visit **www.fisherantibodies.com** to start your search.

Fisher Scientific™ Upholstered Pneumatic Laboratory Chairs

Biomechanically engineered to be ergonomic, with lumbar support built into back of chair

Available in a variety of colors, with dual-wheel casters or glides.

- Feature 18L × 19"W (45.7 × 48.2cm), ergonomically designed, molded polyurethane foam waterfall seats upholstered with flame-retardant antimicrobial/antibacterial vinyl
- Comfortable 17W × 12"H (43.2 × 30.5cm) backrest is adjustable in distance from seat center 4" (10cm) forward or 4" (10cm) backward
- Seat height controlled by a pneumatic lift certified to give more than 500,000 revolutions without a failure
- Backrest shell, and 24" dia. (61cm) five-leg base are constructed of sturdy, easy-to-clean, nylon-reinforced fiberglass
- Backrest support bar enclosed in plastic bellows
- Internal bumper guard protects against tearing

ORDERING INFORMATION:
Ship within three days. Available with dual wheel casters (suitable for hard floors or carpet) or glides with adjustable chrome footrest; 100% Marquesa Lana fabric upholstery is also available as an in-stock option — call for details.

WARRANTY:
15-year warranty, with a 5-year warranty on upholstery. Lifetime warranty on pneumatic cylinders.

COMPLIANCE:
Meet many stringent state and federal requirements.

NOTE:
Not all models come with casters; see Ordering Table.

14-359-481

Seat Height, Color	Leg Type	With Armrests	L × W × H	Cat. No.	Each
19 to 24" (48.2 to 60.9cm)					
Gray	Casters	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-482**	444.50
Blue	Casters	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-481**	436.50
Black	Casters	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-816**	444.50
Burgundy	Casters	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-817**	436.50
Navy	Casters	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-818**	444.50
21 to 28" (53.3 to 71.1cm)					
Gray	Glides	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-474**	539.50
Blue	Glides	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-473**	534.00
Black	Glides	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-819**	533.00
Burgundy	Glides	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-820**	540.00
Navy	Glides	No	23.5 × 23.5 × 42" (59.7 × 59.7 × 106.7cm)	**14-359-821**	538.00

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Fisher Scientific™ Upholstered Pneumatic Laboratory Stools

High- and low-form models, with or without backrest

- Biomechanically engineered; ergonomic
- Feature upholstered, 17.5" dia. (44.4cm), 3" thick (7.6cm) urethane foam seats covered in flame-retardant, antimicrobial/antibacterial vinyl
- Seat height controlled by a pneumatic lift certified to give in excess of 500,000 revolutions without backrest shell and 24" dia. (61cm) five-leg base sturdily constructed of easy-to-clean, nylon-reinforced fiberglass
- Backrest support bar enclosed in attractive plastic bellows
- Dual wheel casters suitable for hard floors and carpet
- High-form stools have adjustable 20" (50.8cm) chrome footrest
- Lumbar support built into back of chair

ORDERING INFORMATION:
Choose from models with blue, gray, black, burgundy, navy or gray upholstery, available immediately from stock. Available with or without 17W × 12"H (43.2 × 30.5cm) backrest cushions that are adjustable in distance from seat center 4" (10.2cm) forward or 4" (10.2cm) backward.

COMPLIANCE:
Both high- and low-form stools meet many stringent state and federal requirements to make compliance easy.

NOTES:
Fisher Scientific offers more chairs and stools suitable for the laboratory or office which are not shown here. For example, you may order chairs and stools with cast-aluminum or tubular bases. Call your Fisher Scientific Customer Service Representative for details and other options available in the Fisher Scientific selection of chairs and stools.

14-359-409

Description	Seat Height	Color	L × W × H	Cat. No.	Each
Low Form					
With backrest	19 to 24.5" (48.2 to 62.2cm)	Blue	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-417**	404.00
	19 to 24.5" (48.2 to 62.2cm)	Gray	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-418**	411.50
	19 to 24.5" (48.2 to 62.2cm)	Black	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-810**	408.50
Without backrest	18.5 to 26" (47 to 66cm)	Blue	23.5 × 23.5 × 16" (59.7 × 59.7 × 40.6cm)	**14-359-409**	307.00
	18.5 to 26" (47 to 66cm)	Gray	23.5 × 23.5 × 16" (59.7 × 59.7 × 40.6cm)	**14-359-410**	296.45
	18.5 to 26" (47 to 66cm)	Black	23.5 × 23.5 × 16" (59.7 × 59.7 × 40.6cm)	**14-359-807**	304.00
	18.5 to 26" (47 to 66cm)	Burgundy	23.5 × 23.5 × 16" (59.7 × 59.7 × 40.6cm)	**14-359-808**	307.00
	18.5 to 26" (47 to 66cm)	Navy	23.5 × 23.5 × 16" (59.7 × 59.7 × 40.6cm)	**14-359-809**	307.00
High Form					
With backrest	22 to 29" (55.8 to 73.6cm)	Blue	23.5 × 23.5 × 34" (59.7 × 59.7 × 86.4cm)	**14-359-393**	525.00
	22 to 29" (55.8 to 73.6cm)	Gray	23.5 × 23.5 × 34" (59.7 × 59.7 × 86.4cm)	**14-359-394**	524.00
	22 to 29" (55.8 to 73.6cm)	Black	23.5 × 23.5 × 34" (59.7 × 59.7 × 86.4cm)	**14-359-801**	523.50
	22 to 29" (55.8 to 73.6cm)	Navy	23.5 × 23.5 × 34" (59.7 × 59.7 × 86.4cm)	**14-359-803**	524.00
Without backrest	21.5 to 28" (54.6 to 71.1cm)	Blue	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-401**	365.50
	21.5 to 28" (54.6 to 71.1cm)	Gray	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-402**	372.50
	21.5 to 28" (54.6 to 71.1cm)	Black	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-804**	364.00
	21.5 to 28" (54.6 to 71.1cm)	Navy	23.5 × 23.5 × 30" (59.7 × 59.7 × 76.2cm)	**14-359-806**	372.50

THINK GREEN

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ Medium Form Polyurethane Chairs, Medium Bench Height

Dual-wheel casters is used for hard floors

Polyurethane seat and back.

- Soil resistant, biomechanically engineered
- Black powder-coated base with fixed foot ring as an option
- Base dia.: 24" and 19 to 27"

14-360-137

Type	Mfr.No.	Cat. No.	Each
With 24" base			
W/ round tube base and casters	91-278PC-RTE	**14-360-137**	552.00
W/ round tube base; Tilt seating; Casters	91-278PC-T-RTE	**14-360-138**	611.00
W/ medium back; Tilt seating; Casters	91-278MBPC-T-CNB	**14-360-438**	610.05
Medium back; Round tube base; Casters	91-278MBPC-RTE	**14-360-461**	592.50

Fisher Scientific™ High Form Vinyl Chairs with Medium Back, Adjustable Arms and Casters, Bench Height

Biomechanically engineered

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Backrest adjusts 4" forward or backward 4"
- Lumbar support built into the back of the chair
- Seat height controlled by a pneumatic lift
- 20" Adjustable chrome foot ring
- Dual soft wheel casters for hard surface floors
- Seat dimensions: 18"L × 19"W
- Backrest dimensions: 17"W × 15"H
- Base diameter: 24"

14-360-231

Type	Cat. No.	Each
Standard blue	**14-360-231**	754.50
Standard black	**14-360-233**	754.50
Chrome base; Standard black	**14-360-238**	797.50

Fisher Scientific™ High Form Vinyl Tilt Chairs with Adjustable Arms, Medium Bench Height

Ideal for long periods of sitting as it allows the better circulation by making the seat pitch adjustable to 8° forward or 3° backward

Lumbar support is built into the back of the chair.

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Biomechanically engineered and ergonomic
- Backrest adjusts 4" forward or backward 4"
- Seat height is controlled by a pneumatic lift
- 20" adjustable chrome foot ring
- 2" bell shaped glides will not scuff hard floors
- Seat: 18L × 19"W, backrest: 17W × 15"H
- Base dia.: 24"

14-360-216

Type	Cat. No.	Each
Medium back; Std. blue	**14-360-216**	781.75

Fisher Scientific™ High Form Vinyl Chairs with Round Tube Bases, Bench Height

Biomechanically engineered

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Backrest adjusts forward 4" or backward 4"
- Lumbar support built into the back of the chair
- Seat height controlled by a pneumatic lift
- Black powder-coated steel base with fixed foot ring
- Dual soft wheel casters for hard surface floors
- Seat dimensions: 18"L × 19"W
- Backrest dimensions: 17"W × 15"H
- Base diameter: 24"

14-360-243

Type	Cat. No.	Each
Standard black	**14-360-243**	786.69

Fisher Scientific™ High Form Vinyl Chairs with Tilt Seating and Casters, Bench Height

Biomechanically engineered

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Backrest adjusts forward 4" or backward 4"
- Lumbar support built into the back of the chair
- Seat height controlled by a pneumatic lift
- 20" adjustable chrome foot ring
- Dual soft wheel casters for hard surface floors
- Seat pitch is adjustable 8° forward or 3° backward allowing better circulation during long periods of sitting
- Seat dimensions: 18"L × 19"W
- Backrest dimensions: 17"W × 15"H
- Base diameter: 24"

14-360-246

Type	Cat. No.	Each
Adjustable arms; Standard blue	**14-360-246**	802.50
Adjustable arms; Standard black	**14-360-248**	802.50
Adjustable arms; round tube base; Standard blue	**14-360-256**	857.50
No arms; Black	**14-360-405**	702.50

Fisher Scientific™ High Form Vinyl Chairs, Medium Bench Height

Biomechanically engineered

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Backrest adjusts forward 4" or backward 4"
- Lumbar support built into the back of the chair
- Seat height controlled by a pneumatic lift
- Black powder-coated steel base with fixed foot ring as an option
- Seat dimensions: 18"L × 19"W
- Backrest dimensions: 17"W × 12"H
- Base diameter: 24"

14-360-352

Type	Cat. No.	Each
Medium back; Gray	**14-360-349**	565.50
Medium back; Navy	**14-360-352**	565.50
Medium back; Cast chrome base; Black	**14-360-355**	609.52
Medium back; round tube base; Black	**14-360-360**	618.50

Fisher Scientific™ High Form Vinyl Tilt Chairs, Medium Bench Height

For allowing better circulation during long periods of sitting, the seat pitch is adjustable 8° forward or 3° backward

Lumbar support is built into the back of the chair.

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Biomechanically engineered and ergonomic
- Backrest adjusts 4" forward or backward 4"
- Seat height is controlled by a pneumatic lift
- Has black powder-coated steel base with fixed foot ring
- 20" adjustable chrome foot ring as an option
- 2" bell shaped glides will not scuff hard floors
- Seat: 18L × 19"W, backrest: 17W × 12"H
- Base dia.: 24"

14-360-368

Type	Cat. No.	Each
Medium back; Std. blue	**14-360-363**	636.50
Medium back; Cast chrome base; Std. blue	**14-360-368**	678.00

Fisher Scientific™ High Form Vinyl Chairs with Casters, Medium Bench Height

Biomechanically engineered

- Vacuum formed, urethane foam waterfall seats covered in flame-retardant vinyl
- Backrest adjusts forward 4" or backward 4"
- Lumbar support built into the back of the chair
- Seat height controlled by a pneumatic lift
- Dual soft wheel casters for hard surface floors
- Black powder-coated steel base with fixed foot ring as an option
- Seat dimensions: 18"L × 19"W
- Backrest dimensions: 17"W × 12"H
- Base diameter: 24"

14-360-378

Type	Cat. No.	Each
Medium back; Blue	**14-360-378**	596.50
Medium back; Black	**14-360-380**	595.00
Medium back; Burgundy	**14-360-381**	596.50
Medium back; Cast chrome base; Burgundy	**14-360-386**	641.00
Tilt seating; Medium back; Gray	**14-360-394**	643.00
Tilt seating; Medium back; Black	**14-360-395**	645.00
Tilt seating; Medium back; Cast chrome base; Blue	**14-360-398**	698.50
Tilt seating; Medium back; Cast chrome base; Black	**14-360-400**	687.00

Cleanroom

Metro™ HD Super™ Stainless Lab Worktable, Stationary

Built for cleanliness and stability

- 34" high (86.4cm) seamless, 14-gauge stainless-steel work surface with rounded edges
- Support structure virtually eliminates "drumming"
- Posts with adjustable feet compensate for slight floor irregularities
- Leveling foot on each post

ORDERING INFORMATION:
Shipped knocked down. Assemble easily without tools.
Other sizes available; call your Fisher Scientific™ Customer Service Representative at 1-800-772-6733.

91-152

Length	Post Material	Bottom Shelf Material	Bottom 3-sided Frame Material	Bottom H-Frame Material	Mfr. No.	Cat. No.	Price
48" (121.9cm)	Stainless steel	Stainless steel	----	----	WT305FS	**11-927-122**	1528.00
60" (152.4cm)	Stainless steel	Stainless steel	----	----	WT306FS	**11-927-125**	1634.00
72" (182.5cm)	Stainless steel	Stainless steel	----	----	WT307FS	**11-927-128**	1766.00
96" (243.9cm)	Stainless steel	Stainless steel	----	----	WT309FS	**11-927-131**	2156.00
60" (152.4cm)	Chrome	Galvanized	----	----	WT306FC	**11-927-124**	1137.00
72" (182.5cm)	Chrome	Galvanized	----	----	WT307FC	**11-927-127**	1300.00
96" (243.9cm)	Chrome	Galvanized	----	----	WT309FC	**11-927-130**	1557.00
48" (121.9cm)	Stainless steel	----	Stainless steel	----	WT305US	**11-927-123**	1251.00
60" (152.4cm)	Stainless steel	----	Stainless steel	----	WT306US	**91-152**	1856.00
72" (182.5cm)	Stainless steel	----	Stainless steel	----	WT307US	**91-154**	2200.00
96" (243.9cm)	Stainless steel	----	Stainless steel	----	WT309US	**91-156**	2540.00
60" (152.4cm)	Stainless steel	----	----	Stainless steel	WT306HS	**11-927-126**	1353.00
72" (182.5cm)	Stainless steel	----	----	Stainless steel	WT307HS	**11-927-129**	1475.00
96" (243.9cm)	Stainless steel	----	----	Stainless steel	WT309HS	**11-927-132**	1759.00
60" (152.4cm)	Stainless steel	Stainless steel	----	----	WT366FS	**11-927-134**	1877.00
72" (182.5cm)	Stainless steel	Stainless steel	----	----	WT367FS	**11-927-137**	2013.00
96" (243.9cm)	Stainless steel	Stainless steel	----	----	WT369FS	**11-927-140**	2424.00
60" (152.4cm)	Chrome	Galvanized	----	----	WT366FC	**11-927-133**	1486.00
72" (182.5cm)	Chrome	Galvanized	----	----	WT367FC	**11-927-136**	1672.00
96" (243.9cm)	Chrome	Galvanized	----	----	WT369FC	**11-927-139**	1891.00
60" (152.4cm)	Stainless steel	----	Stainless steel	----	WT366US	**91-153**	2180.00
72" (182.9cm)	Stainless steel	----	Stainless steel	----	WT367US	**91-155**	2370.00
96" (243.9cm)	Stainless steel	----	Stainless steel	----	WT369US	**11-927-142**	2004.00
60" (152.4cm)	Stainless steel	----	----	Stainless steel	WT366HS	**11-927-135**	1579.00
72" (182.5cm)	Stainless steel	----	----	Stainless steel	WT367HS	**11-927-138**	1710.00
96" (243.9cm)	Stainless steel	----	----	Stainless steel	WT369HS	**11-927-141**	2004.00
60" (152.4cm)	Stainless steel	Stainless steel	----	----	WT446FS	**11-927-144**	2038.00
72" (182.5cm)	Stainless steel	Stainless steel	----	----	WT447FS	**11-927-148**	2175.00
96" (243.9cm)	Stainless steel	Stainless steel	----	----	WT449FS	**11-927-152**	2583.00
60" (152.4cm)	Chrome	Galvanized	----	----	WT446FC	**11-927-143**	1641.00
72" (182.5cm)	Chrome	Galvanized	----	----	WT447FC	**11-927-147**	1833.00
96" (243.9cm)	Chrome	Galvanized	----	----	WT449FC	**11-927-151**	2063.00
60" (152.4cm)	Stainless steel	----	Stainless steel	----	WT446US	**11-927-146**	1744.00
72" (182.9cm)	Stainless steel	----	Stainless steel	----	WT447US	**11-927-150**	1870.00
96" (243.9cm)	Stainless steel	----	Stainless steel	----	WT449US	**11-927-154**	2169.00
60" (152.4cm)	Stainless steel	----	----	Stainless steel	WT446HS	**11-927-145**	1744.00
72" (182.5cm)	Stainless steel	----	----	Stainless steel	WT447HS	**11-927-149**	1870.00
96" (243.9cm)	Stainless steel	----	----	Stainless steel	WT449HS	**11-927-153**	2169.00

Organizers

Bel-Art™ Scienceware™ Drawer Organizers

Practical and functional solutions for organizing the "stuff" of daily lab life

		Mfr. No.	Cat. No.	Each	Case of 6
	Open-Area Tray Flat, open tray holds large objects or light bulk materials. Depth, 2.5" (6.4cm).	18655 0000	**15-252-4**	90.80	477.00
	Three-Compartment Tray Safely holds pipets and other slender, fragile items up to 16" long (40.6cm). Two 4" wide (10.2cm) compartments and one 5.5" wide (14cm) compartment; all are 2.5" deep (6.4cm).	18648 0000	**15-252-5**	90.80	477.00
	Five-Compartment Tray All compartments are 2.5" deep (6.4cm). Center compartment for long items is 4 × 16" (10.2 × 40.6cm). Two side compartments are 7.5 x 4" (19.1 × 10.2cm), and two are 7.5 × 5.5" (19.1 × 14cm).	18654 0000	**15-252-6**	90.80	477.00
	Twelve-Compartment Small Parts Tray Holds small articles easily lost in cluttered drawers. Each compartment is 3.875L × 3.875W × 2.875"D (9.8 x 9.8 × 7.3cm).	18652 0000	**15-252-7**	90.80	477.00
	Scintillation Vial Tray 63 wells in a 9 × 7 row format hold standard glass or plastic scintillation vials. Generous spacing makes handling easier and prevents vial-to-vial contact.	18653 0000	**15-252-9**	90.80	477.00

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

GLOBAL COVERAGE WITH A LOCAL TOUCH

The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

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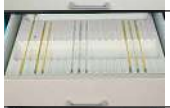
Prices subject to change.

Spectrum™ Drawer/Ganizers™ Drawer Organizer Units

Handy compartmentalized trays keep each item in its proper place

- No need to rummage through cluttered, messy drawers
- Constructed of heavy-duty polystyrene
- Fit drawers of all standard modular metal lab furniture
- Withstand heavy use and abuse

14-334-26A

	Description	Size	L × W × H	No. of Compartments	Cat. No.	Pack of 2
	Clamp Spacers - For clamps and hardware with unusual shapes and lengths, instruments, accessories and spare parts.	Small	$17^3/_8 \times 13^3/_8 \times 2^7/_8$" (44.1 × 34 × 7.3cm)	5	**14-334-14B**	156.10
	Grid Spacers - For vials and other small items. Excellent for organized storage of samples or standards for fast reference. Each compartment is $1^1/_4$L × $1^1/_4$W × 1"D (3.2 × 3.2 × 2.5cm). Total of 99 compartments.	Large	$17^3/_8 \times 19^3/_8 \times 2^1/_4$" (44.1 × 49.2 × 5.7cm)	99	**14-334-27A**	168.30
	Micropipet Spacers - For disposable-tip microliter pipets and tips. Suitable for Oxford™, Eppendorf™ and similar pipetting systems, syringes, etc.	Small	$17^3/_8 \times 13^3/_8 \times 2^7/_8$" (44.1 × 34 × 7.3cm)	5 for pipets, 2 for tips	**14-334-26B**	152.30
		Large	$17^3/_8 \times 19^3/_8 \times 2^7/_8$" (44.1 × 49.2 × 7.3cm)	7 for pipets, 2 for tips	**14-334-26A**	171.70
	Pipet Spacers - Compartmentalize pipets by size, type, so they don't roll around and break. Walls absorb shock.	Small	$17^3/_8 \times 13^3/_8 \times 2$" (44.1 × 34 × 5.1cm)	4	**14-334-11B**	155.80
	Small Part Spacers - Compartmented to hold weigh boats, stir bars, spatulas, ties and other small articles so hard to find in littered drawers.	Small	$17^3/_8 \times 13^3/_8 \times 2^7/_8$" (44.1 × 34 × 7.3cm)	7	**14-334-20B**	156.10
		Large	$17^3/_8 \times 19^3/_8 \times 2^7/_8$" (44.1 × 49.2 × 7.3cm)	15	**14-334-20A**	176.00
	Stopper Spacers - Perfect for rubber, glass and cork stoppers; small hardware items; and all those laboratory supplies that usually get mixed together in one large drawer.	Small	$17^1/_4 \times 13^3/_8 \times 2^7/_8$" (43.8 × 34 × 7.3cm)	12	**14-334-12B**	155.80
	Thermometer Trays - Ideal protection for costly, fragile, precision thermometers and volumetric pipets. Area for labeling types, ranges and calibration.	Small	$17^3/_8 \times 13^3/_8 \times 1^1/_4$" (44.1 × 34 × 3.2cm)	11 × 400mm; 3 × 420mm	**14-334-15B**	147.10
		Large	$17^3/_8 \times 19^3/_8 \times 1^1/_4$" (44.1 × 49.2 × 3.2cm)	16 × 400mm; 5 × 420mm	**14-334-15A**	171.70
	Utility Spacers - For bulky items that won't fit other drawer spacers, e.g., mortars and pestles, watch glasses, filter paper, coils of tubing, small appliances and instruments, centrifuge heads and rotors.	Large	$17^3/_8 \times 19^3/_8 \times 2^7/_8$" (44.1 × 49.2 × 7.3cm)	4	**14-334-13A**	177.70
		Small	$17^3/_8 \times 13^3/_8 \times 2^7/_8$" (44.1 × 34 × 7.3cm)	4	**14-334-13B**	152.40
	Tool Spacers - Spaces are shaped for commonly used tools and hardware supplies. You can tell at a glance if something is missing.	Small	$17^3/_8 \times 13^3/_8 \times 1^3/_4$" (44.1 × 34 × 4.4cm)	15	**14-334-25B**	152.30

Fisher Scientific™ Traceable™ Manometer Pressure/Vacuum Gauges

Portable units measure and display differential pressure/vacuum in 11 different units (psi, mbar etc)

- Portable unit measures and displays differential pressure/vacuum in: psi, mbar, bar, cm/H_2O, inch/H_2O, feet/H_2O, mm/Hg, inch/Hg, kg/cm^2, oz./inch^2 and kPa
- Response time: 0.5 sec.
- Accuracy: ±0.3% of full-scale between 0 and 50°C
- Readings are shown on backlit display with 0.625"H (1.6cm) digits visible from 6'
- Feature DATA HOLD button to freeze display and capture readings
- Memory key recalls highest and lowest readings
- Differential feature calculates the difference between two readings
- Zeroing is achieved at the touch of a button
- Display times up to 99 hours, 59 minutes, 59 seconds which allows the user to record when maximum or minimum pressure is achieved

Printing Model

- Captures and stores up to 99 readings at the press of a button
- Datalogging permits capturing and storing up to 12,000 readings at intervals as short as 1 second or as long as 2 hours; prints sample number, current reading, date and time
- Manual memories and datalogger memories print without the need for a computer
- Computer output allows manual memories, datalogger memories and current programmable capturing to be streamed to a PC computer

ORDERING INFORMATION:
Dimensions: 7.125L × 2.75W × 1.125"H (18.1 × 7.0 × 2.9cm).
Accepts tubing from 0.062 to 0.187" I.D. Nonprinting Model: 5 oz.; Printing Model: 12 oz.

INCLUDES:
Nonprinting model includes tubing, 9V battery, ABS plastic carrying case and RS-232 port; Printing model includes hose/tubing, "AA" batteries, ABS plastic carrying case, computer output, 79" computer cable with software CD and paper roll.

06-664-18

CERTIFICATIONS:
Individually serial-numbered Traceable™ Certificate is provided from an ISO™ 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Divisions	Cat. No.	Each
Nonprinting Model			
-259 to +259mmHg	0.007" (0.2mm)	**06-664-18**	242.00
-776 to +776mmHg	0.01" (0.5mm)	**06-664-19**	237.00
-1551 to +1551mmHg	0.03" (1mm)	**06-664-21**	244.50
-5171 to +5171mmHg	0.11" (3mm)	**06-664-22**	242.00
Printing Model			
-259 to +259mmHg	0.007" (0.2mm)	**15-078-190**	480.50
-5171 to +5171mmHg	0.11" (3mm)	**15-078-193**	480.50

Fisherbrand™ Diaphragm Pressure and Vacuum Gauges

Accuracy is ±1% in midrange, ±2 to 3% at extremes

Drawn steel case and ring, enamel finish, polycarbonate and brass movement. 2.5" diameter (6.4cm).

- Diaphragm is phosphor bronze
- Serrated 0.25" (6.4mm) hose connection on bottom of gauge

Range	Divisions	Cat. No.	Each
Pressure Gauge			
0–60mmHg	0.03" (1mm)	**11-281A**	210.00
0–300mmHg	0.19" (5mm)	**11-281B**	210.00
Vacuum Gauge			
0–250mmHg	0.19" (5mm)	**11-282A**	210.00
0–760mmHg	0.39" (10mm)	**11-282B**	199.96

11-281A and 11-282A

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Prices subject to change.

Glass Tubing

Tubing

Kimble-Chase Kimax™ Standard Wall Borosilicate Glass Tubing

Low alkali content borosilicate glass tubing for general laboratory use

Low coefficient of expansion and high resistance to chemical attack.

- Softening point, 827°C (1520°F)
- Working (forming) point, 1255°C (2291°F)
- 6 to 12, 14, 15 and 22mm O.D. sizes have glazed ends; all others have cut ends

ORDERING INFORMATION:
Supplied in 4' (1.2m) lengths.

COMPLIANCE:
Meets requirements of Type I Class A glass of ASTM™ E 438-92.

11-361, 11-368, 11-362 Series

O. D.	O. D. Tol.	Wall Thickness	Approx. lb./ft.	Mfr. No.	Cat. No.	Case of
±0.1mm Wall Tolerance						
0.15" (4mm)	±0.3mm	0.8mm	0.012	80200 4	**11-362B**	25/651.50
0.19" (5mm)	±0.3mm	0.8mm	0.016	80200 5	**11-362C**	25/576.00
0.23" (6mm)	±0.3mm	1.0mm	0.023	80200 6	**11-362D**	25/555.50
0.27" (7mm)	±0.3mm	1.0mm	0.028	80200 7	**11-362E**	25/555.00
0.31" (8mm)	±0.4mm	1.0mm	0.033	80200 8	**11-362-1L**	25/626.50
0.35" (9mm)	±0.4mm	1.0mm	0.038	80200 9	**11-362F**	25/555.00
0.39" (10mm)	±0.4mm	1.0mm	0.042	80200 10	**11-368H**	25/542.00
0.47" (12mm)	±0.4mm	1.0mm	0.052	80200 12	**11-362G**	25/542.50
0.5" (14mm)	±0.4mm	1.2mm	0.072	80200 14	**11-361B**	25/540.01
0.6" (15mm)	±0.25mm	1.2mm	0.078	80200 15	**11-362J**	25/539.00
0.70" (18mm)	±0.25mm	1.2mm	0.095	80200 18	**11-362L**	25/555.00
±0.3mm Wall Tolerance						
2.51" (64mm)	±1.2mm	2.4mm	0.690	80200 64	**11-362-1C**	11/310.50

Pyrex™ Brand Standard Wall Tubing

Low coefficient of expansion, great mechanical strength

- Softening point, 821°C (1509°F)
- Working (forming) point, 1252°C (2885°F)
- Small sizes can be bent after heating over a blast burner using gas and compressed air
- Larger sizes must be heated over a blast burner using gas and oxygen

ORDERING INFORMATION:
Supplied in 4' (1.2m) lengths.

11-365 Series

O.D.	O.D. Tol.	Wall Thickness	Approx. lb./ft.	Mfr. No.	Cat. No.	Each
±0.1mm Wall Tolerance						
5mm	±0.3mm	0.03" (0.8mm)	0.016	234050	**11-365C**	566.50
6mm	±0.3mm	0.04" (1.0mm)	0.023	234060	**11-365D**	526.00
7mm	±0.3mm	0.04" (1.0mm)	0.028	234070	**11-365E**	566.50
8mm	±0.3mm	0.04" (1.0mm)	0.033	234080	**11-365F**	566.50
9mm	±0.3mm	0.04" (1.0mm)	0.038	234090	**11-365G**	561.71
10mm	±0.3mm	0.04" (1.0mm)	0.042	234100	**11-365H**	568.50
11mm	±0.3mm	0.04" (1.0mm)	0.047	234110	**11-365J**	561.71
12mm	±0.3mm	0.04" (1.0mm)	0.052	234120	**11-365K**	529.07
15mm	±0.3mm	0.04" (1.2mm)	0.078	234150	**11-365N**	534.00
±0.2mm Wall Tolerance						
22mm	±0.4mm	0.06" (1.5mm)	0.145	234220	**11-365U**	521.05
25mm	±0.4mm	0.06" (1.5mm)	0.166	234250	**11-365V**	566.50
28mm	±0.4mm	0.06" (1.5mm)	0.187	234280	**11-365W**	566.50
41mm	±0.9mm	0.07" (2.0mm)	0.37	234410	**11-365CC**	559.79
51mm	±1.0mm	0.07" (2.0mm)	0.46	234510	**11-365FF**	642.47
±0.3mm Wall Tolerance						
100mm	±1.4mm	0.09" (2.4mm)	1.12	234000	**11-366K**	530.50

Tubing Accessories

Griffin-Type Glass Tubing Cutter

Strong cutter is corrosion resistant

- Cuts glass tubing up to 40mm
- Nickel-plated, zinc alloy, die cast

11-340

Description	Mfr. No.	Cat. No.	Each
Griffin-Type Glass Cutter	H 13520	**11-340**	43.30

Tool Specialty Tubing Knife

For soft or borosilicate glass tubing

- Fine 1" (25mm) cutting edge of durable, rustproof tungsten carbide
- Stainless-steel shank
- Wooden handle

11-347A

Description	Mfr. No.	Cat. No.	Each
Specialty Tubing Knife	TNG CBDE	**11-347A**	321.00

Glove Boxes

Labconco™ Precise™ Basic Glove Box

Designed to provide a leak-tight physical barrier between the user and the materials inside the glove box

Simple design allows the user to customize it with optional accessories to meet specific applications.

- One-piece molded, medium-density polyethylene shell
- 0.25" thick laminated safety glass viewing window with powder-coated steel frame and neoprene gasket
- Space-saving inner and outer transfer chamber doors that pivot upward are counterbalanced and equipped with quick-latches
- Black, chemical-resistant phenolic core work surface sealed to the glove box floor
- Interior ceiling-mounted electrical duplex
- Switches for light and innermost interior electrical receptacle
- No detectable leaks greater than 1×10^{-4}mL/sec.
- Transfer chamber interior interlocking shelf of dry powder epoxy-coated steel

10-358-100

ORDERING INFORMATION:

- Overall dimensions: 31.625L × 52.75W × 40"H (80 × 134 × 102cm)
- Main chamber interior: 27.5D × 33.5W × 25"H (69.9 × 85.1 × 63.5cm)
- Transfer chamber is 11" nominal I.D. × 12"L (28 × 30cm)
- Shipping weight: 255 lb. (166kg)

REQUIRES: Supporting base (10-358-108, -109; order separately)

COMPLIANCE: Meets Class 1 atmosphere containment conditions for oxygen leak rates per ISO 10648-2 test method. Conforms to UL 3101-1/61010-1 and CAN/CSA C22.2 No. 1010.1.

CERTIFICATIONS: ETL listed

Electrical Requirements	Liner	Mfr. No.	Cat. No.	Each
115V 60Hz, 8A	Polyethylene	5220000	**10-358-100**	6987.66

Labconco™ Precise™ Controlled Atmosphere Glove Box

Provide leak-tight environment for contamination-sensitive materials

Ideal for procedures requiring low levels of oxygen such as work with organometallics, alternative energy cells or hydrophilic chemicals.

10-358-102

Performance

- Performance-tested to maintain P5ppm oxygen/P50ppm moisture levels

Design Features

- One-piece molded, medium-density polyethylene shell
- Dry epoxy-coated steel superstructure, transfer sleeve and interior shelf
- Inner and outer transfer chamber doors are pivoted, counterbalanced and equipped with quick-release latches
- Black, chemical-resistant phenolic core work surface sealed to box floor
- Nominal 13 cu. ft. interior space in main chamber
- 0.25" thick removable, laminated safety glass viewing window with neoprene gasket

Ventilation

- Automatic pressure relief valve activates at ±6" of water gauge
- Six manual valves with 0.37" compression fittings and hose barbs: Main chamber, 4 (2 purge/fill, 2 drying); Transfer chamber: 2 purge/fill

Controls

- Main chamber pressure gauge calibrated from -5 to +5 of water gauge
- Transfer pressure chamber gauge from 0 to -.29"Hg
- Light and electrical receptacle switches

ORDERING INFORMATION:
Main chamber: 27.5D × 33.5W × 25"H (70 × 85 × 64cm)
Transfer chamber: 11 nominal I.D. × 12"L (28 × 30cm)
Window: 26.37W × 12.5"H (67 × 32cm)
Pressure relief valve: 4" nominal dia. (10.2cm)
Overall: 31.62D × 52.75W × 40"H (80 × 134 × 102cm)
Shipping weight: 260 lb. (118kg)

INCLUDES:

- Pair of neoprene gloves (size 9.75, 30" [76cm] long, 15mil gauge)
- 22w fluorescent lamp and control switch
- Interior ceiling-mounted electrical duplex receptacle and switch with 5A (115V model)

REQUIRES: Support base (10-358-108, -109; order separately) vacuum source for purging, and inert gas for filling

COMPLIANCE: Meets Class 1 atmosphere containment conditions per ISO 10648-2 test method.

CERTIFICATIONS: ETL listed.

ALERTS: Desired Oxygen/Moisture Level: Oxygen levels below 1% (10,000ppm) may be achieved with oxygen and moisture-removal columns. Maintaining levels as low as 1ppm requires a regenerative drying train accessory.

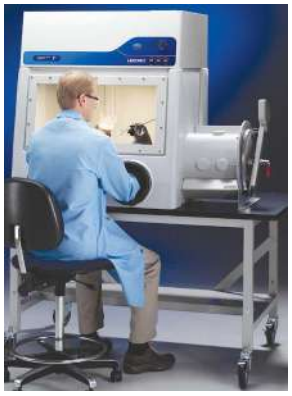
Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 60Hz, 8A	5220100	**10-358-102**	9734.85

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Labconco™ Precise™ HEPA-Filtered Glove Box

Provide a leak-tight physical barrier to protect operator from hazardous airborne particulates and powders



10-358-104

Leak-tight design and HEPA inlet and outlet filters make this box suitable for pharmaceutical research, nanotechnology and biochemistry. Also suitable for work with microorganisms, low-level radiochemicals, chemical carcinogens and asbestos, as well as cleanroom applications requiring ISO Class 3 conditions.

Design Features

- One-piece molded, medium-density polyethylene shell
- Dry powder epoxy-coated steel superstructure and interior shelf of transfer chamber
- Approx. 13 cu. ft. main chamber
- 0.25" thick (0.64cm) laminated safety glass viewing window with powder-coated steel frame and neoprene gasket
- Upward-pivoting inner and outer transfer chamber doors counter-balanced and equipped with quick-latches
- Black, chemical-resistant phenolic core work surface sealed to glove box floor

Performance

- Dual HEPA filters boast 99.99% efficiency against particulates down to 0.3 microns
- 0.05ppm or lower average tracer gas levels (surpasses ASHRAE™ 110 standards)
- No detectable leaks greater than 1×10^{-3}mL/sec.
- Vibration is less than 1.5 × 10-5 inches displacement when measured at work surface at both minimum and maximum airflow volumes

INCLUDES:

- Integral neoprene gloves (size 9.75, 30" [76cm] long, 15mil gauge)
- 22w fluorescent lamp
- Interior ceiling-mounted electrical duplex receptacle with 5A (115V model)
- Built-in blower with speed control capable of airflow from 13 to 100cfm
- Switches for light, blower and innermost electrical receptacle
- Inlet and outlet HEPA filters and test port
- Main chamber static pressure gauge to monitor HEPA filter

REQUIRES: Supporting base (10-358-108, -109; order separately)

COMPLIANCE: Exceeds ISO Class 5 conditions (equivalent to Class 100); Achieves ISO Class 3 conditions (equivalent to Class 1). Conforms to UL 3101-1/61010-1 and CAN/CSA C22.2 No. 1010.1.

CERTIFICATIONS: ETL listed.

ORDERING INFORMATION:
Overall dimensions: 31.62L × 52.75W × 40"H (80 × 134 × 102cm).
Main chamber: 27.5D × 33.5W × 25"H (69.9 × 85.1 × 63.5cm).
Transfer chamber: 11" nominal I.D. × 12"L (28 × 30cm).
Shipping weight: 280 lb. (127kg).

Electrical Requirements	Liner	Mfr. No.	Cat. No.	Each
115V 60Hz, 8A	Polyethylene	5220200	**10-358-104**	10,609.17

Labconco™ Protector™ Fiberglass Filtered Glove Box

Features inlet and outlet HEPA filters, 99.99% efficient on particulates

16-200-401

- One-piece molded fiberglass liner
- Clear acrylic inner and outer transfer chamber doors
- Two glove ports
- 0.3µm particulate containment <20 ng/m³
- Built-in blower with speed control capable of airflow from 15 CFM to 85 CFM
- 0.05 ppm average tracer gas levels (surpasses ASHRAE 110 standards)
- Dry powder-coated, 18 and 20 gauge steel exterior panel
- Bag-In/Bag-Out filter disposal system
- Space-saving inner and outer transfer chamber doors pivot upward
- Two 8 " epoxy-coated aluminum, double-grooved glove ports with neoprene gaskets
- Two 25w fluorescent lights
- LCD display for real time monitoring of volume dilution rates in cubic feet per minute, air changes/minute and main chamber pressure (inches of water)
- Interior left-hand side wall-mounted pass-through plug
- Interior right-hand side wall-mounted electrical receptacle
- Pair of neoprene gloves, 0.015" thick, 30" long
- Large viewing area, 36W × 27.7 " H with 0.375" thick, laminated safety glass
- Dimensions: 63.9W × 31.0D × 45.7" H (162.3 × 78.7 × 116.1cm); Interior working width: 35.5"

REQUIRES: Supporting base

COMPLIANCE: ETL listing, UL 61010-1 and CAN/CSA C22.2 No. 1010.1 conformity
(North America models)

CERTIFICATIONS: Exceeds ISO Class 4 conditions and achieves ISO Class 3 conditions.

Electrical Requirements	Type	Mfr. No.	Cat. No.	Each
100-115V, 10A	Domestic, North American plug	5065010	**16-200-401**	20,270.70

Labconco™ Protector™ Stainless-steel Filtered Glove Boxes

Features inlet and outlet ULPA filters, 99.999% efficient on 0.12 micron particulates

16-200-406

Airborne particulate cleanliness exceeds ISO Class 4 conditions and achieves ISO Class 3 conditions.

- Type 304 stainless steel liner
- Type 304 stainless steel inner and outer transfer chamber doors, front panel
- Particulate containment <20 nanograms per cubic meter
- No detectable leaks greater than 1×10^{-6}mL/sec.
- Test port for challenging ULPA filter integrity
- True Bag-In/Bag-Out Filter Disposal System for safe filter removal and replacement
- LCD display provides real time monitoring of volume dilution rates in cFM
- Built-in blower with speed control capable of airflow from 15 CFM to 85 CFM
- Viewing area, 36W × 27.7" H with 3/8" thick, laminated safety glass
- 0.05 ppm average tracer gas levels or less detected during perimeter scan testing (surpasses ASHRAE 110 standards) after 5 minute dilution
- Pair of neoprene gloves, 0.015" thick, 30" long, size 9 3/4
- Switches for light, blower and electrical duplex
- Two 8" ID, epoxy-coated aluminum, double-grooved glove ports mounted 17" apart with neoprene gaskets
- Two 25w fluorescent lights that exceed 100 footcandles
- Dry powder epoxy-coated, 18 and 20 gauge steel exterior panels

Plug Type	Electrical Requirements	Mfr. No.	Cat. No.	Each
North American plug	100 to 115V, 10A, Domestic	5065510	**16-200-406**	25,896.61
British (UK) plug	208 to 230V, 10A, International	5065531	**16-200-407**	25,386.35
Schuko plug	208 to 230V, 10A, International	5065535	**16-200-408**	25,386.35
China/Australia plug	208 to 230V, 10A, International	5065540	**16-200-409**	25,386.35
North American plug	208 to 230V, 10A, Domestic	5065545	**16-200-410**	25,386.35

Labconco™ Protector™ Filtered Glove Box

Use ambient air to provide user protection from extremely hazardous particulates

16-200-411

Filtered glove boxes are ideal for applications such as nanoparticle manipulation, toxic powder weighing, pharmaceutical research and biochemistry. Microorganisms, low-level radiochemicals, chemical carcinogens and asbestos may also be used in these boxes. In addition, these boxes may be used for cleanroom applications requiring ISO Class 3 conditions.

Key Features

- Particulate containment <20 nanograms per cubic meter (naproxen sodium surrogate)
- Fast "clean up" time — 0.05 ppm average tracer gas levels or less (surpasses ASHRAE 110 standards)
- Airborne particulate cleanliness exceeds ISO Class 4 conditions and achieves ISO Class 3 conditions
- Inlet and outlet particulate ULPA filters to prevent contaminants from entering or leaving the glove box chamber
- Test port for challenging ULPA filter integrity
- True Bag-In/Bag-Out Filter Disposal System for safe filter removal and replacement
- Built-in blower with speed control capable of airflow from 15 CFM to 85 CFM depending on voltage and frequency
- Mutable, audible/visual low airflow/pressure alarm

Additional Features

- Factory leak-tested — no detectable leaks greater than 1×10^{-6}mL/sec.
- LCD display and programmable alarm levels of volume dilution rates in cubic feet per minute (CFM), air changes/min. (ACM) and main chamber pressure (in. of water)
- 0.38" thick laminated safety glass viewing window with 36.0W × 27.7"H (91 × 70cm) viewing area
- Pair of neoprene gloves 0.015" thick, 30" long, size 9 3/4
- Two 8" ID epoxy-coated aluminum, double-grooved glove ports with neoprene gaskets
- Switches for light, blower and electrical receptacle
- Two 25w fluorescent lights
- Dry-powder epoxy-coated, 18 and 20 gauge steel exterior panels

REQUIRES: Supporting base

WARRANTY: One year warranty on parts and labor

CERTIFICATIONS: ETL listed, UL 61010-1 and CAN/CSA C22.2 No. 1010.1 conformity (North American models).

Plug Type	Mfr. No.	Cat. No.	Each
North America, 115V	5065512	**16-200-411**	50,893.90

Fisher Scientific

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Prices subject to change.

Labconco™ Protector™ Fiberglass Controlled Atmosphere Glove Box with Two Ports

Provides leak-tight environment for work with contamination sensitive materials

- One-piece molded fiberglass liner provides a smooth, durable surface that resists chemical corrosion and simplifies cleaning
- Dry-powder coated steel exterior has superior corrosion resistance
- Two 8" I.D., epoxy-coated aluminum, double-grooved glove ports with neoprene gaskets
- Space-saving inner and outer transfer chamber doors
- Four inlet/outlet manual valves, two on the main chamber and two on the transfer chamber for evacuating and filling the chambers
- Two 0.75" O.D. rear-mounted inlet and outlet compression fittings for easy connection to optional AtmosPure™ Re-Gen Gas Purifier
- Maintains oxygen levels as low as 0.4ppm and moisture levels as low as 2ppm
- Exceeds Class I atmosphere containment conditions for low oxygen permeation per ISO 10648-2 (<0.3ppm/min.)
- Main and transfer chamber analog pressure gauges to monitor pressure levels inside the box
- Factory-installed, rear-mounted stainless-steel pressure relief bubbler at ±6" of water gauge
- Fluorescent illumination of 120 footcandles for bright interior
- Interior, left-hand side, wall-mounted pass-through with plug allows for on-site installation of an optional electrical receptacle or optional pass-through port
- Interior right-hand side wall-mounted electrical receptacle with 10A maximum circuit load
- Pair of Neoprene gloves, 30" long, are impermeable to water vapor, gases and toxic chemicals
- Large laminated safety glass 0.75" thick viewing window
- Inner and outer clear acrylic, pivoting transfer chamber doors, counterbalanced and equipped with quick-latches

16-200-416

REQUIRES: Supporting base, adjustable height, mobile and stationary base stands, inert gas for filling

WARRANTY: One-year warranty on parts and labor

CERTIFICATIONS: CE Conformity marking (International models), ETL-listed (North America models).

Plug Type	Mfr. No.	Cat. No.	Each
100-115V, 10A			
Domestic; North America	5060010	**16-200-416**	21,394.20

Labconco™ Protector™ Stainless-Steel Controlled Atmosphere Glove Box

Provides leak-tight environment for work with contamination sensitive materials

Type 304 stainless steel liner provides a smooth, durable surface that resists chemical corrosion and simplifies cleaning.

- Dry-powder epoxy-coated steel exterior has superior corrosion resistance
- Clear acrylic inner and outer transfer chamber doors
- Two 8" I.D., epoxy-coated aluminum, double-grooved glove ports with neoprene gaskets
- Four inlet/outlet valves, two on the main chamber and two on the transfer chamber for evacuating and filling the chambers
- Two 0.75" O.D. rear-mounted inlet and outlet compression fittings for easy connection to optional AtmosPure™ Re-Gen Gas Purifier
- Maintains oxygen levels as low as 0.2ppm and moisture levels as low as 1ppm
- Exceeds Class I atmosphere containment conditions for low oxygen permeation per ISO 10648-2 (<0.16ppm/min.)
- Main and transfer chamber analog pressure gauges to monitor pressure levels inside the box
- Factory-installed, rear-mounted stainless-steel pressure relief bubbler at ±6" of water gauge
- Fluorescent illumination of 80 footcandles for bright interior
- Interior, left-hand side, wall-mounted pass-through with plug allows for on-site installation of an optional electrical receptacle or optional pass-through port
- Interior right-hand side wall-mounted electrical receptacle with 10A maximum circuit load
- Pair of Neoprene gloves, 30" long, are impermeable to water vapor, gases and toxic chemicals
- Large laminated safety glass 0.75" thick viewing window
- Inner and outer pivoting stainless-steel transfer chamber doors, counterbalanced and equipped with quick-latches

16-200-421

REQUIRES: Supporting base, inert gas for filling, vacuum pump for evacuating

WARRANTY: One-year warranty on parts and labor

CERTIFICATIONS: ETL-listed.

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
100-115V, 10A	Domestic; North America	5060110	**16-200-421**	26,078.20

Labconco™ Protector™ Controlled Atmosphere Glove Boxes

Provide a leak-tight environment for work with contamination-sensitive materials

Key Features

- Exceed Class 1 atmosphere containment conditions for oxygen permeation <1.67 ppm/min. per ISO 10648-2 test method
- Four manual valves with 3/8" compression fittings — two on the main chamber and two on the transfer chamber
- Automatic control of the main chamber pressure, main chamber evacuation and filling cycles, and transfer chamber evacuation and filling cycles
- Regulation of vacuum/pressure between -5 and +5" of water gauge in the main chamber and between 0 and -29.5" of mercury in the transfer chamber
- Mutable, audible/visual alarm
- Three-position foot pedal
- Factory-installed, rear-mounted, low profile stainless steel pressure relief bubbler at ±6 inches of water gauge
- Two rear-mounted inlet and outlet .75" O.D. compression fittings for easy connection to optional gas purifier or accessory drying train
- No detectable leaks greater than 1 × 10-6mL/sec.

Additional Features

- LCD display of main chamber and transfer chamber pressure in inches of water, inches of mercury and mBar
- 0.38" thick laminated safety glass viewing window with 36.0W × 27.6"H (91 × 70cm) viewing area
- Pair of neoprene gloves 0.015" thick, 30" long, size 9.75"
- Two 8" ID epoxy-coated aluminum, double-grooved glove ports with neoprene gaskets
- Switches for light and electrical receptacle
- Two 25w fluorescent lights
- Dry-powder epoxy-coated, 18- and 20- gauge steel exterior panels

Fiberglass-lined Model Features

- One-piece molded fiberglass liner with clear acrylic inner and outer transfer chamber doors
- Performance tested to maintain oxygen levels as low as 0.4 ppm and moisture levels as low as 2 ppm
- Oxygen permeation P0.3 ppm/min per ISO 10648-2

16-200-431

Stainless Steel-lined Model Features

- Type 304 stainless steel liner with Type 304 stainless steel inner and outer transfer chamber doors; Type 304 stainless steel front panel
- Performance tested to maintain oxygen levels as low as 0.2 ppm and moisture levels as low as 1 ppm
- Oxygen permeation P0.16 ppm/min per ISO 10648-2

REQUIRES:
Supporting base, vacuum pump for evacuating, inert gas for filling

WARRANTY:
One year warranty on parts and labor

CERTIFICATIONS:
ETL listed, UL 61010-1 and CAN/CSA C22.2 No. 1010.1 conformity (North American models).

Liner	L × W × H	Plug Type	Mfr. No.	Cat. No.	Each
Fiberglass	63.9 × 34.4 × 45.7" (162.3 × 87.4 × 116.1cm)	North America, 115V	5080010	**16-200-431**	29,018.43
Stainless Steel	63.5 × 34.4 × 45.7" (161.3 × 87.4 × 116.1cm)	North America, 115V	5080110	**16-200-436**	33,999.94

Labconco™ Protector™ Stainless-steel Double Controlled Atmosphere Glove Box with Auto Pressure Control

Provides leak-tight environment for work with contamination sensitive materials

Stainless steel-lined glove boxes have ultralow oxygen permeation rates (<0.16 ppm/min).

- Evacuation and filling cycles are automated and monitored
- The controller regulates vacuum/pressure between -5 and +5 water gauge in the main chamber and between 0 and -29.5" mercury in the transfer chamber
- An audible alarm sounds when pressure/vacuum level is outside set limits
- The LCD displays main and transfer chamber pressure
- Three-position foot pedal provides hands-free control
- Input/output port provides connection to optional AtmosPure™ Re-Gen Gas Purifier

16-200-441

Plug Type	Electrical Requirements	Mfr. No.	Cat. No.	Each
North America plug	100-115V, 10A, Domestic	5080112	**16-200-441**	58,928.45

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Plas-Labs™ Model 855 Anaerobic Chambers

Versatile unit can be used as a controlled atmosphere or anaerobic chamber

Illuminated, rigid acrylic glove box with transfer compartment, for manipulation of anaerobic materials at factory-set temperature of 37°C (98.6°F).

11-391-106

General Features

- Equipped with two pressure/vacuum diaphragm pumps, catalyst heater/oxygen remover, desiccant train and system of purge valves for adjusting interior atmosphere
- Thick walls are essentially impermeable to ambient oxygen
- Useable on a lab cart or table
- All controls are illuminated

Work Chamber

- Clear acrylic hood and white thermoset base clamp together against a double neoprene gasket; clamps adjust for wear
- Includes two ground key cock valves for purging (not for use with oxygen)
- Superstructure contains a fluorescent light system and two pumps: one recirculates chamber atmosphere through the desiccant train; the other is for evacuating and purging the transfer compartment and/or work chamber

Transfer Compartment

- Equipped with two ground key cock purge valves and vacuum gauge
- Inner door is self-opening upon equilibration of internal pressure
- A leveling tray fits bottom of compartment to assist loading and unloading of liquids

Desiccant Cartridges

- Three clear polycarbonate desiccant cartridges (supplied) are attached externally on back of unit
- Can be disconnected quickly from their self-sealing hose connections without disturbanceto the internal atmosphere
- Each cartridge contains molecular sieve and silica gel medium
- Contents can be rejuvenated by heating at 163°C (325°F)

ORDERING INFORMATION:
Electrical Requirements: 120V 60Hz.

INCLUDES:
Glove ports are fitted with a pair of white, ambidextrous Hypalon™ gloves with straight sleeves. With transfer tray and hospital-grade outlet strip. Catalyst heater includes two palladium canisters.

CERTIFICATIONS:
UL listed, CSA certified, CE marked.

Description	Exterior, L × W × H	Interior, D × W × H	Volume	Shipping Weight	Mfr. No.	Cat. No.	Each
One-Station Model	35 × 55 × 38" (89 × 140 × 97cm)	28 × 41 × 26" (71 × 104 × 77cm)	17.3 cu. ft. (489L)	250 lb. (113kg)	855-AC	**11-391-106**	18,312.84
Two-Station Model	47 × 76 × 42" (119 × 193 × 107cm)	38 × 60 × 31" (97 × 152 × 79cm)	40.9 cu. ft. (1157L)	300 lb. (135kg)	855-ACB	**11-386-144**	19,044.70

Plas-Labs™ Model 830 Compact Glove Boxes

For safe containment of hazardous materials when being weighed

Work chamber accommodates analytical and toploading balances, bench scales and moisture analyzers in a clean, safe, portable and draft-free atmosphere.

- Removable top section for easy installation of equipment
- Four purging gas valves (two on the transfer chamber and two on the main chamber)
- White leveling tray for easy transferring of liquids
- All clamps stainless steel and completely adjustable
- Pressure relief valve minimizes glove fight back
- Relief valve HEPA filter prevents escape of particulates and organic vapors
- HEPA and organic vapor canister filters (replaceable)
- Roomy transfer chamber is 12L × 11" I.D.

INCLUDES:
White ambidextrous Hypalon™ gloves for superior chemical and U.V. resistance; Manual

CERTIFICATIONS:
Included hospital-grade multiple electrical outlet strip is UL listed, CSA approved.

11-389-6

Volume	Exterior Dimensions, L × W × H	Interior Dimensions, D × W × H	Top Opening, L × W	Door Opening, H × W	Shipping Weight	Mfr. No.	Cat. No.	Each
One-Station Models								
11.2 cu. ft. (317L)	23 × 43 × 31" (61 × 110 × 79cm)	23 × 28 × 29" (59 × 71 × 74cm)	23 × 17" (58 × 43cm)	18 × 15" (45 × 38cm)	250 lb.	830-ABC	**11-389-6**	9180.00
Two-Station Model								
32.2 cu. ft. (912L)	32 × 76 × 35" (81.2 × 193 × 89cm)	29 × 60 × 32" (74 × 152.4 × 81cm)	54 × 24" (137 × 61cm)	24 × 21.5" (61 × 54cm)	400 lb.	830-ABE	**11-386-137**	9908.60

Plas-Labs™ Model 818 Basic Glove Box

Basic models fit general laboratory isolation applications, but are easily modified for more specialized uses

Compact, portable and lightweight glove box for isolating sensitive research studies from a hostile exterior environment.

- Optically clear, one piece acrylic top
- Coved, easy-to-clean corners with no hidden dark spots
- Double-layered, closed cellular neoprene gasketing system
- Ambidextrous, white Hypalon™ gloves provide superior chemical and UV resistance; stainless-steel O-rings for gloves
- Adjustable vacuum gauge on transfer chamber
- Four ground key cock valves for purging
- White leveling tray for transferring liquids through the transfer chamber
- All clamps fully adjustable to compensate for wear
- Transparent transfer chamber, 12L ×11"I.D.
- Matched die-molded, bright white bottom

INCLUDES: White ambidextrous Hypalon gloves

11-389

WARRANTY: One year

CERTIFICATIONS:
Included multiple-outlet electrical strip is UL listed, CA approved and hospital grade.

Model	Volume	Exterior L × W × H	Interior D × W × H	Shipping Weight	Mfr. No.	Cat. No.	Each
Single Station	17.3 cu. ft. (489L)	35 × 55 × 38" (89 × 140 × 97cm)	28 × 41 × 26" (71 × 104 × 66cm)	200 lb. (90.7kg)	818-GB	**11-389**	9361.53

Plas-Labs™ Model 815 La Petite Glove Box

Ergonomic, effective and economical glove box for general use

Lightweight and easy to move from one lab to another — two-thirds the size of the 11-389 basic glove box.

- Two components — top and bottom — sealed using clean-room-friendly gel sealant
- Unbreakable, optically clear, one-piece formed top
- Bright white, one-piece bottom with easy-to-clean corners formed of high-temperature Noryl™
- Adjustable, stainless-steel clamps with security locking features
- Large access door (12" opening)
- Four ground key-cock valves for purging and gas entry
- Adjustable RH gauge
- "Weathertite" duplex electrical outlet with safety covers
- Transparent vacuum-capable transfer chamber, 12L × 9.75" I.D. with vacuum gauge
- White leveling plate for transferring liquids

11-386-133

Gel Sealant System (replacement gel available separately)

- Provides air-tight, water-tight barrier for secure sealing of the HEPA filter system
- Highly adhesive, quick releasing and self healing
- Nontoxic, does not support biological growth, will not outgas and contains no silicone

ORDERING INFORMATION: 7" Latex or neoprene gloves available.

WARRANTY: 12 months

Volume	Exterior L × W × H	Interior D × W × H	Shipping Weight	Mfr. No.	Cat. No.	Each
9.5 cu. ft. (269L)	29 × 49 × 22" (74 × 124.5 × 56cm)	25.5 × 31.5 × 21.5" (65 × 80 × 55cm)	75 lb. (35kg)	815-PGB	**11-386-133**	6510.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Gloves

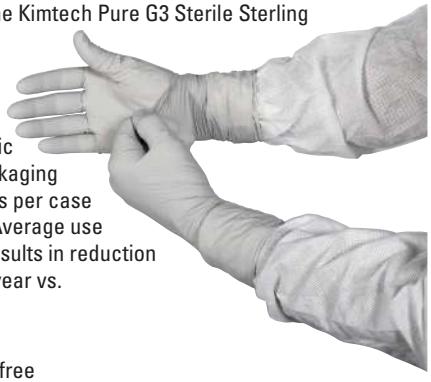
Cleanroom

Nitrile-Sterile

Kimberly-Clark Professional™ Kimtech Pure™ G3 Sterile Sterling™ Nitrile Gloves

Combine the sensitivity of latex with the protection of nitrile

When double-donned, the Kimtech Pure G3 Sterile Sterling Nitrile glove delivers the equivalent feel and dexterity of a single latex glove without the risk of Type I latex allergic reactions. Improved packaging delivers 50% more gloves per case than traditional gloves. Average use of 25 cases per month results in reduction of one ton of waste per year vs. traditional latex gloves.



19-047-735

- Hand specific
- Natural rubber latex free
- Static dissipative in use
- Walleted and pouched in polyethylene
- Packaged for aseptic donning
- Environmentally responsible — 50% less bulk than traditional latex sterile gloves
- Recommended for ISO Class 4 or higher cleanroom environments
- Thickness: 4 mil
- Length: 12" (30.5cm)

COMPLIANCE:
Cleanroom packaged to meet the needs of Class 10 Cleanrooms. Gloves meet or exceed AQL level of 1.5 for pinholes. Manufactured in accordance with quality system ISO 9001. Meet ASTM™ D 3767 and ASTM D 6319 standards.

Size	Mfr. No.	Cat. No.	Case of 300
6	11821	**19-047-730**	525.00
6.5	11822	**19-047-732**	525.00
7	11823	**19-047-733**	525.00
7.5	11824	**19-047-734**	525.00
8	11825	**19-047-735**	525.00
8.5	11826	**19-047-736**	525.00
9	11827	**19-047-737**	525.00
10	11828	**19-047-738**	525.00

DID YOU KNOW...

One square inch of hand surface area has an average of 10,000 micororganisms.

Nitrile

Kimberly-Clark Professional™ Kimtech Pure™ G3 and G5 Sterling™ Nitrile Gloves

Latex free with the dexterity and sensitivity of latex

Compared to traditional latex and nitrile gloves, the new Kimtech Pure G3 and G5 Sterling Nitrile Gloves offer better performance, better value, and are better for the environment. The process also allows a reduction in glove thickness, so less force is required to stretch the material.

17-986-007

- Natural rubber latex-free
- Superior glove strength
- Static dissipative in use
- Certificate of Analysis (by lot) available online
- Textured fingertips
- Beaded cuff; comfortable fit
- Nonsterile
- Powder-free
- Excellent dexterity and tactile sensitivity
- Ambidextrous with high tack/grip
- Thickness: 4.0mil
- Length: 12" (30.5cm)
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail

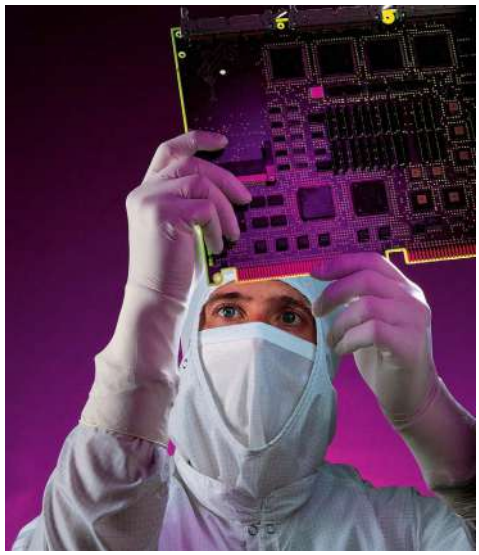
APPLICATIONS: Semiconductor industry, medical device, flat panel display, pharmaceutical, disk drive manufacturing, and electronics.

ORDERING INFORMATION: Double poly bagged with poly case liner.

Size	Mfr. No.	Cat. No.	Pack of 250	Case of 6 Pk.
KIMTECH PURE G3 STERLING for ISO Class 3 or higher cleanrooms				
X-Small	99234	**17-986-001**	98.90	525.13
Small	99235	**17-986-002**	98.90	525.13
Medium	99236	**17-986-003**	98.90	525.13
Large	99237	**17-986-004**	98.90	525.13
Large	99238	**17-986-005**	98.90	525.13
X-Large	99239	**17-986-006**	98.90	525.13
KIMTECH PURE G5 STERLING for ISO Class 5 or higher cleanrooms				
X-Small	98184	**17-986-007**	94.90	503.84
Small	98185	**17-986-008**	94.90	503.84
Medium	98186	**17-986-009**	94.90	503.84
Large	98187	**17-986-010**	94.90	503.84
Large	98188	**17-986-011**	94.90	503.84
X-Large	98189	**17-986-012**	94.90	503.84

Kimberly-Clark Professional™ Kimtech Pure™ G3 Nitrile Gloves

Manufacturer-suggested ISO Class 4 or higher



19-048-653A

Gloves are chlorinated to remove powders used in manufacturing. Subjected to multiple deionized water rinses, and packaged in a cleanroom Class 100.

- Made of soft, 100% nitrile that resists oils and a broad range of chemicals
- Proprietary processing used for lowest particle and ionic/ elemental extractables
- Excellent ESD characteristics, dexterity and comfort
- Tapered, beaded cuffs for reduced tearing and easy donning and doffing
- Ambidextrous
- Thickness: 5.9mil at fingertips
- Length: 12" (30.5cm)
- Color: Blue or White

ORDERING INFORMATION:
Double-bagged with case liner and flat-stacked for easy access to cuff.

COMPLIANCE:
Tested in accordance with IEST-RP-CC005.2. Meet AQL 1.5 standards for critical defects.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
Blue				
X-Small	HC1150N	**19-048-591A**	77.09	655.34
Small	HC2250N	**19-048-591B**	77.09	655.34
Medium	HC3350N	**19-048-591C**	77.09	655.34
Large	HC4450N	**19-048-591D**	77.09	655.34
X-Large	HC5550N	**19-048-591E**	77.09	655.34
White				
X-Small	HC61010	**19-048-653A**	49.24	408.50
Small	HC61011	**19-048-653B**	49.24	408.50
Medium	HC61012	**19-048-653C**	49.24	408.50
Large	HC61013	**19-048-653D**	49.24	408.50
X-Large	HC61014	**19-048-653E**	49.24	408.50

Kimberly-Clark Professional™ Kimtech Pure™ G5 Nitrile Gloves

Manufacturer-suggested ISO Class 5

- Powder- and perfume-free nitrile compound resists oils
- Beaded cuff for extra strength and easy donning
- Bisque finish
- Thickness: 5.9mil at fingertips
- Length: 10" (25.4cm)
- Color: Blue

ORDERING INFORMATION:
Sealed in double polybags of 100 gloves with case liner.

COMPLIANCE:
Manufactured in an ISO 9002 registered facility.
AQL 1.5. Meet or exceed ASTM D 6319.

11-390-13A

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	HC150N	**19-002-942**	53.36	453.49
Small	HC250N	**11-390-13A**	53.36	453.49
Medium	HC350N	**11-390-13B**	53.36	453.49
Large	HC450N	**11-390-13C**	53.36	453.49
X-Large	HC550N	**11-390-13D**	53.36	453.49

Microflex™ CE5 System™ Nitrile Gloves

Exceptional dexterity, tactile sense, fit, feel and comfort

- Micro-textured fingertip surface enhances wet or dry grip
- Beaded cuff for easier donning
- Low surface particulates, ionic extractables and nonvolatile residues
- Excellent static decay and surface resistivity properties
- Contain no latex, plasticizers or silicone
- Thickness: 6.7mil at fingertips
- Length: 12" (30.5cm)
- Color: White

19-120-2500A

ORDERING INFORMATION:
100 gloves per double, vacuum-sealed, polybags; 10 polybags per poly-lined carton of 1000 gloves. Lot specific.

INCLUDES: Certificate of Assurance for full traceability

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	CE5-755-XS	**19-120-2500**	----	392.98
Small	CE5-755-S	**19-120-2500A**	45.98	392.98
Medium	CE5-755-M	**19-120-2500B**	45.98	392.98
Large	CE5-755-L	**19-120-2500C**	45.98	392.98
X-Large	CE5-755-XL	**19-120-2500D**	45.98	392.98

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

Ansell™ Nitrilite™ Cleanroom Gloves

Significantly reduced particulate and extractable levels

19-014-687B

Manufacturer-suggested ISO Class 5.

- Nitrile polymer formulation free of plasticizers, silicone, and pigments
- Superior strength with light, comfortable fit
- Textured fingers and rolled, beaded cuff
- Powder-free, ambidextrous
- Thickness: 5mil at fingertip
- Length: 12" (30.5cm)
- Color: Natural White

ORDERING INFORMATION:
Manufactured in ISO 9002 registered facility and processed in a clean environment. Each lot tested, certified and documented. 50 gloves vacuum-sealed in unprinted polybag; two polybags sealed in master pack.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	93-311-XS	**19-014-687**	36.95	341.50
Small	93-311S	**19-014-687A**	36.95	341.50
Medium	93-311M	**19-014-687B**	36.95	341.50
Large	93-311L	**19-014-687C**	36.95	341.50
X-Large	93-311XL	**19-014-687D**	36.95	341.50

S-Curve™ Acrylic Glove Dispensers

Wall-mountable, clear acrylic

- Ideal for ambidextrous exam gloves
- Hold one, two or three boxes of gloves

11-127-47 Series

ORDERING INFORMATION:
Cat. No. 11-127-47A measures $3^1/_2$D × $10^1/_8$W × $5^1/_4$"H (9 × 26 × 13cm).

Cat. No. 11-127-47B measures $3^1/_2$D × $10^1/_8$W × 11"H (9 × 26 × 28cm).

Cat. No. 11-127-47C measures $3^1/_2$D × $10^1/_8$W × 15"H (9 × 26 × 38cm).

INCLUDES:
Screws and wall anchors

Capacity	Mfr. No.	Cat. No.	Each	Case of
1 box	EBD 1000	**11-127-47A**	42.40	10/322.00
2 boxes	EBD 2000	**11-127-47B**	76.10	5/302.50
3 boxes	EBD 3000	**11-127-47C**	----	1/135.10

ON THE WEB...

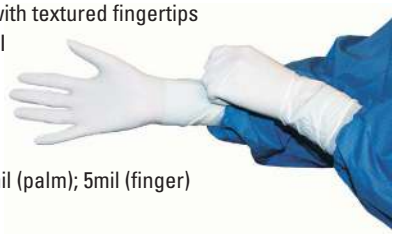
Additional dispensers available at www.fisherscientific.com

Visit www.fishersci.com and search for Dispensers

Hourglass International™ HandPRO™ Series 7100 Clean Class 100 Nitrile Gloves

Suitable for ISO Class 5 cleanrooms and higher

- Powder-free, latex free with textured fingertips
- Reduces the risk of Type I latex allergy
- Ambidextrous
- Static dissipative ESD qualities
- Thickness: 3mil (cuff); 4mil (palm); 5mil (finger)
- Length: 12" (30.5cm)
- Double bagged



19-423-023

COMPLIANCE:
Meet or exceed ASTM and FDA requirements

Size	Mfr. No.	Cat. No.	Case of 10 Pk.
X-Small	7100	**19-423-023**	316.00
Small	7101	**19-423-024**	316.00
Medium	7102	**19-423-025**	316.00
Large	7103	**19-423-026**	316.00
X-Large	7104	**19-423-027**	316.00

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Latex-Sterile

Kimberly-Clark Professional™ Kimtech Pure™ G3 Sterile Latex Gloves

Ideal for biotech, pharmaceutical and medical device industries

19-120-879

All Kimtech Pure G3 gloves are multiple-washed in deionized water to minimize particles and extractables.

- Recommended for ISO Class 3 or higher cleanrooms
- Excellent strength and durability, with flexibility that minimizes fatigue yet maximizes dexterity and comfort
- Low latex protein content — ≤50µg total water extractable protein per gram
- Packaged for aseptic donning
- Features tapered beaded cuff and textured nonslip grip
- Hand-specific pairs
- Fingertip thickness: 8.7mil
- Length: 12" (30.5cm)
- Gamma irradiated to a 10^{-6} Sterility Assurance Level (SAL)
- Color: Natural

ORDERING INFORMATION:
Pair-packaged in an ISO Class 5 cleanroom. Poly-walleted for clean, aseptic donning; 20 walleted pairs per pack.

COMPLIANCE:
Tested in accordance with IEST-RP-CC005.2; meet AQL 1.5 standards for critical defects. Gamma irridated. Validated to a Sterility Assurance Level (SAL) of 10^{-6} according to ANSI/AAMI/ISO 11137. Complies with ASTM D 3577 standard specification for rubber surgical gloves.

Size	Mfr. No.	Cat. No.	Case of 200 Pair
6	HC1360S	**19-120-879**	895.10
6.5	HC1365S	**19-120-880**	895.10
7	HC1370S	**19-120-881**	895.10
7.5	HC1375S	**19-120-882**	895.10
8	HC1380S	**19-120-883**	895.10
8.5	HC1385S	**19-120-884**	895.10
9	HC1390S	**19-120-885**	895.10
10	HC1310S	**19-120-886**	895.10

WARNING

The products featured on this page contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Latex

Kimberly-Clark Professional™ Kimtech Pure™ G3 Nonsterile Latex Ambidextrous Gloves

Ambidextrous GlovesFlexibility minimizes fatigue

11-390-6C

- Recommended for ISO Class 4 or higher
- Textured palms and fingertips
- Beaded cuff
- Thickness: 8.7mil at fingertip
- Length: 12" (30.5cm)

ORDERING INFORMATION:
Packaged in a Class 100 Cleanroom. Ten bags of 100 gloves, double bagged with case liner.

COMPLIANCE: Tested in accordance with IEST-RP-CC005.2; meet AQL 1.5 standards for critical defects. Meet or exceed ASTM D 3578 standard.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
Small	HC225	**11-390-6A**	88.65	735.47
Medium	HC335	**11-390-6B**	88.65	735.47
Large	HC445	**11-390-6C**	88.65	735.47
X-Large	HC555	**11-390-6D**	88.65	735.47

Kimberly-Clark Professional™ Kimtech Pure™ G5 Latex Gloves

Manufacturer-suggested ISO Class 5 or higher

11-390-4B

Low in natural rubber proteins.

- Textured palm and fingers
- Beaded cuff adds strength and makes donning easier
- Ambidextrous
- Thickness: 8.3mil
- Length: 10 or 12" (25 or 30.5cm)

ORDERING INFORMATION:
Bulk packed 100 gloves per double-bagged polybag with case liner.

COMPLIANCE: Meet or exceed applicable ASTM D3578 standards.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
10" long (23cm)				
Small	HC220	**11-390-4A**	47.07	390.41
Medium	HC330	**11-390-4B**	47.07	390.41
Large	HC440	**11-390-4C**	47.07	390.41
X-Large	HC550	**11-390-4D**	47.07	390.41
12" long (30.5cm)				
Small	HC2211	**11-390-5A**	78.38	650.17
Medium	HC3311	**11-390-5B**	78.38	650.17
Large	HC4411	**11-390-5C**	78.38	650.17
X-Large	HC5511	**11-390-5D**	78.38	650.17

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Microflex™ CE4 System™ Latex Gloves

Provide superb aesthetics, dexterity, tactile sense, fit, feel, and comfort

Washed in microprocessor-controlled, two-in-one, washer/dryer laundering system to provide very low surface particulates, ionic extractables and nonvolatile residues.

19-166-1236

- Low surface particulates
- Micro-textured fingertip surface enhances wet or dry grip
- Does not contain silicone
- Available either ambidextrous or hand-specific
- Multi-class cleanroom compatibility
- Fingertip thickness: 7.9mil
- Length: 12" (30.5cm)
- Color: Natural

ORDERING INFORMATION:
Test results, by lot number, are documented with a Certificate of Assurance (COA) for full traceability. Produced in totally integrated facility certified to ISO 9001 standards. Processed and packaged in a controlled environment. Ambidextrous gloves packed 100 gloves per double, vacuum-sealed, polybags; 10 polybags per poly-lined carton of 1000 gloves.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	CE4-200-XS	**19-166-1259**	----	417.53
Small	CE4-200-S	**19-166-1260**	49.39	417.53
Medium	CE4-200-M	**19-166-1234**	49.39	417.53
Large	CE4-200-L	**19-166-1235**	49.39	417.53
X-Large	CE4-200-XL	**19-166-1236**	49.39	417.53

Microflex™ CE5 System™ Latex Ambidextrous Gloves

Low surface particulates, ionic extractables, and nonvolatile residues

- Exceptional elasticity and tensile strength
- Micro-textured surface enhances wet or dry grip
- Contains no silcone
- Multiclass cleanroom compatibility
- Length: 12" (23 and 30.5cm)
- Thickness: 7.9mil at fingertip
- Color: Natural

19-120-2503

ORDERING INFORMATION:
Produced in totally integrated facility certified to ISO 9001 standards. Processed and packaged in a controlled environment. Packed 100 gloves per double, vacuum-sealed, polybags; 10 polybags per polylined carton of 1000 gloves.

INCLUDES:
Certificate of Assurance for full traceability

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
12" long (30.5cm)				
X-Small	CE5-512-XS	**19-120-2503**	37.39	316.05
Small	CE5-512-S	**19-120-2503A**	37.39	316.05
Medium	CE5-512-M	**19-120-2503B**	37.39	316.05
Large	CE5-512-L	**19-120-2503C**	37.39	316.05
X-Large	CE5-512-XL	**19-120-2503D**	37.39	316.05

Cardinal Health™ Sterile Protegrity™ CP Latex Clean Process Gloves

Designed for use in pharmaceutical, biotechnology, and medical device applications

Triple-layer, powder-free clean process glove created with advanced triple-dip bonding technology integrating comfort of natural rubber and strength of nitrile.

- Natural rubber latex outer layer provides enhanced comfort with outstanding tactile properties
- Blended natural rubber latex and nitrile middle layer bonds other layers and maintains performance integrity; facilitates effortless donning
- Sterilized to 10^{-6} SAL
- Beaded cuffs
- Length: 12" (30cm)
- Average thickness: 9mil
- Color: natural

ORDERING INFORMATION:
Film packaged by the pair; 50 pairs per polybag; 4 polybags (200 pairs) per case.

COMPLIANCE:
Meet or exceed ASTM™ D 3577 physical property requirements.

19-120-2978

WARNING

The products featured on this page contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Size	Mfr. No.	Cat. No.	Case of 200 Pair
5.5	2Y72N0	**19-120-2975**	1033.00
6.5	2Y72N2	**19-120-2977**	1033.00
7	2Y72N3	**19-120-2978**	1033.00
7.5	2Y72N4	**19-120-2979**	1033.00
8	2Y72N5	**19-120-2980**	1033.00
8.5	2Y72N6	**19-120-2981**	1033.00

Multi-Material

MAPA Professional™ AdvanTech™ TRIonic™ Tripolymer Cleanroom Gloves

Manufacturer-suggested ISO Class 4

Tripolymer blend (nitrile, neoprene and natural rubber) outperforms natural rubber in applications involving aggressive chemicals.

- Natural rubber protein levels test below detection
- Very strong and durable; highly resistant to tears, snags, cuts
- In three hand-specific styles, all unlined and 20mil thick, flat-cuffed

Pigmented, Diamond Grip (Style 5185)

- Orange-pigmented gloves fit snugly over sleeves to protect forearm
- Tapered flat cuffs
- Raised diamond grip

Unpigmented, "Z" Grip (Style 5173 and 5179)

- Triple-washed: twice in a 5ppm calcium carbonate solution; third ultrapure deionized water wash extracts reactive ions
- Individually air-tested for pinholes
- Flat cuff
- Unlined

19-048-517S

ORDERING INFORMATION:
Finished, inspected, tested and packaged in ISO Class 5 cleanroom; pair-packaged in individual heat-sealed polybags.

COMPLIANCE:
Meet or exceed 1.5% AQL in accordance with ASTM™ D3578. Comply with ASTM F1671 standards. Meet 21CFR, 170–199 specifications for food and drug handling. Comply with FDA regulations for food contact. Manufactured in an ISO 9002 certified facility. Quality assurance procedure includes IEST-RP-CC-005.2 wet test for particle levels.

WARNING

These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Size	Mfr. No.	Cat. No.	Pack of 12 Pair	Case of 72 Pair
Pigmented, diamond grip, 14" long (35.6cm)				
7	518567	**19-048-517T**	61.00	307.50
8	518568	**19-048-517S**	61.00	307.50
9	518569	**19-048-517R**	61.00	307.50
10	518560	**19-048-517Q**	61.00	307.50
11	518561	**19-048-517P**	61.00	307.50
Unpigmented, "Z" grip, 14" long (35.6cm)				
7	517317	**11-392-26A**	57.60	290.00
8	517318	**11-392-26B**	57.60	290.00
9	517319	**11-392-26C**	57.60	290.00
10	517310	**11-392-26D**	57.60	290.00
11	517311	**11-392-26E**	57.60	290.00
Unpigmented, "Z" grip, 14" long (35.6cm) Bulk packed				
6	517986	**19-048-650J**	56.50	287.00
7	517987	**19-048-650K**	56.50	287.00
8	517988	**19-048-650L**	56.50	287.00
9	517989	**19-048-650M**	56.50	285.00
11	517981	**19-048-650P**	56.50	285.00

Polychloroprene

Nitritex Bioclean Fusion™ Polychloroprene Gloves

Excellent chemical protection and exceptional tactility

- Powder-free and latex-free
- Protects like nitrile – feels like latex
- Beaded cuff provides easier donning and stability on the arm
- Finger-textured
- Ambidextrous
- Double-donnable
- Non-Sterile
- Part of BioClean-C Chemotherapy range
- 295mm ±10mm length
- Available in green color in sizes ranging from X-Small to 2X-Large

COMPLIANCE:
Complies with requirements of the Glove Standard EN420:2003 and the European Medical Gloves Standard (EN455 Parts 1, 2 and 3) and EN374-1, 2 and 3:2003. ASTM 6978-05 tested against cytotoxic drugs.

Size	Mfr. No.	Cat. No.	Each
X-Small	BFAP-XS	**19-668-100**	324.50
Small	BFAP-S	**19-668-101**	324.50
Medium	BFAP-M	**19-668-102**	324.50
Large	BFAP-L	**19-668-103**	324.50
X-Large	BFAP-XL	**19-668-104**	324.50
2X-Large	BFAP-XXL	**19-668-105**	350.00

19-668-100

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Specialty

North™ Glove Box Gloves

Hand-specific for a comfortable fit

Three styles of shoulder-length gloves made from neoprene, butyl CSM (Polyurethane/Chlorosulfonated Polyethylene).

- Cuff diameters match 7", 8", and 10" dia. (20cm) glove box ports
- Fit a hand size of 9.75" (25cm); Length: 32" (81cm)
- Unsupported, with smooth-finish grips

Black Neoprene Box Gloves

- Manufactured from premium quality milled neoprene which provides high permeation resistance to vapors and gases
- Resistant to a broad range of chemicals, including oils, greases, fuels and acetone

Black Butyl Box Gloves

- Butyl provides the highest permeation resistance to vapors and gases, as well as exceptional resistance to a broad range of toxic chemicals
- Highly resistant to ketones (MEK, MIBK, acetone) and esters (tricresyl phosphate, amyl acetate, ethyl acetate)

White CSM Glove Box Gloves

- CSM provides superior resistance to ozone and oxidizing chemicals such as alcohols, alkalis and acids
- Highly resistant to UV radiation in both artificial light and sunlight

11-395-43B

ORDERING INFORMATION: For chemical resistance data on these gloves, call your Fisher Safety Customer Service Representative at **1-800-772-6733.**

Also available in ambidextrous style in sizes of 9.75" (25cm) and 10.5" (27cm). North Viton™ dry box gloves are available on special order. Other sizes available include 8.5" (22cm), 10.5" (27cm), and 11.5" (29cm). Please call your Fisher Safety Customer Service Representative for pricing information. All gloves in pack of one pair.

Material	Mfr. No.	Cat. No.	Pair
15mil Thick			
Neoprene	8N15329Q	**11-395-41A**	268.50
Butyl	8B15329Q	**11-395-42A**	405.50
CSM	8Y15329Q	**11-395-43A**	360.00
30mil Thick			
Neoprene	8N30329Q	**11-395-41B**	322.50
Butyl	8B30329Q	**11-395-42B**	424.00
CSM	8Y30329Q	**11-395-43B**	604.50

North™ Multiple-Washed Latex Finger Cots

Prevent contamination from reactive ions

Very low particle count and extractables. Natural rubber cots feature uniform thickness for excellent tactility, strength, and product protection.

- Powder-free
- Thickness: 3mil
- Length: 2.75" (7cm)
- Color: White

19-062-392

ORDERING INFORMATION: Rolled, 720 cots to a pack.

COMPLIANCE: Meet IES-RP-CC005.2 standard.

Size	Mfr. No.	Cat. No.	Pack of 720	Case of 30 Pk.
Small	115LWR	**19-023-276**	45.30	1124.00
Medium	125LWR	**19-023-279**	45.30	1124.00
Large	135LWR	**19-069-930**	45.30	1124.00
X-Large	145LWR	**19-062-392**	45.30	1124.00

WARNING

These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Inspection

Fisherbrand® Low-Lint Nylon Inspection Gloves

Moisture-absorbent

19-053-708

Nylon Style

- 40-denier tricot fabric in a two-piece construction
- Easy size identification by color-coded hem on rolled cuff
- Can be used as a liner

Stretch Nylon Style

- Heavyweight fabric constructed in a full-fashion pattern
- Easy size identification by color-coded hem on "zig-zag" stitched cuff
- Provides limited heat protection

Size	Cuff Color	Cat. No.	Pack of 12 Pair	Case of
Women's Nylon				
Small	Black	**19-053-703**	20.50	100 Dz./2030.00
Medium	Blue	**19-053-702**	20.50	100 Dz./2030.00
Large	Pink	**19-013-620**	20.50	100 Dz./2030.00
Men's Nylon				
Small	Yellow	**19-053-707**	22.51	100 Dz./2161.15
Medium	Red	**19-053-706**	22.51	100 Dz./1824.25
Large	Green	**19-013-621**	22.51	100 Dz./2161.15
X-Large	White	**19-053-708**	23.30	100 Dz./2270.00
Stretch Nylon				
Women's	Red	**19-075-289**	31.25	50 Dz./1491.00
Men's	Blue	**19-075-288**	31.00	50 Dz./1480.00

Medical Exam

Nitrile

Fisherbrand® Comfort Nitrile Exam Gloves

Enhanced comfort and tactile sensitivity

- Powder-free
- Exceptional fit, feel and durability
- Feature textured fingers
- Latex-free
- Ambidextrous and nonsterile with beaded cuff
- Length: 9.5" (24cm)
- Thickness: 3.0mil (palm)
- Color: Periwinkle Blue

19-041-171C

ORDERING INFORMATION:
Packed 200 gloves per box;
10 boxes per case. (X-Large: 180 gloves per box.)

COMPLIANCE: Meet 1.5 AQL standards. Comply with Biocompatibility Guidance for Medical Devices. Pass viral penetration test (ASTM™ F1671). 510K-approved for medical use.

CERTIFICATIONS: ISO 9001 certified QMS

Size	Cat. No.	Pack of 200	Case of 10 Packs
X-Small	**19-041-171A**	34.00	305.95
Small	**19-041-171B**	34.00	305.95
Medium	**19-041-171C**	34.00	305.95
Large	**19-041-171D**	34.00	305.95
X-Large	**19-041-171E**	34.00	305.95

Fisherbrand® Powder-Free Nitrile Exam Gloves

Exceptional durability and puncture resistance

Nitrile provides superior fit, comfort, tactile sensitivity and dexterity, and contains no latex proteins that can cause allergic reactions. The glove has a textured surface for solid grip in wet or dry conditions.

- Thickness 4mil
- Length 9.5"

19-130-1597C

COMPLIANCE:
Meet ASTM™ F 1671 requirements.
510K approved for medical use.

Size	Cat. No.	Pack of 100
X-Small	**19-130-1597A**	28.73
Small	**19-130-1597B**	28.73
Medium	**19-130-1597C**	28.73
Large	**19-130-1597D**	28.73
X-Large	**19-130-1597E**	28.73
2X-Large	**19-130-1597F**	28.73

Fisherbrand® Comfort Nitrile Exam Gloves with Aloe

Extra-soft gloves offer comfortable fit and feel with enhanced tactile sensitivity

- Powder-free
- Soothing aloe protects hands against drying and cracking; ideal for extended wear
- Textured fingertips for better gripping
- Ambidextrous and nonsterile with beaded cuff
- Length: 9.5" (24cm)
- Thickness: 3.0mil (palm)
- Color: Blue Green

19-041-172C

ORDERING INFORMATION:
Packed 100 gloves per box;
10 boxes per case.

COMPLIANCE: Meet 1.5 AQL standards. Comply with Biocompatibility Guidance for Medical Devices. 510K-approved for medical use.

CERTIFICATIONS: ISO 9001 certified QMS

Size	Cat. No.	Pack of 100	Case of 10 Packs
X-Small	**19-041-172A**	31.53	265.62
Small	**19-041-172B**	31.53	265.62
Medium	**19-041-172C**	31.53	265.62
Large	**19-041-172D**	31.53	265.62
X-Large	**19-041-172E**	31.53	265.62

Fisherbrand® Powder-Free Nitrile Exam Gloves with Aloe

Coated with aloe to help moisturize and soothe dry, chapped hands

Offer superior puncture and chemical resistance.

- Unique, 100% latex-free, odor-free synthetic formulation reduces hand fatigue
- Textured surface for superior grip
- Nonsterile, ambidextrous
- Length: 9.5" (24.1cm)
- Thickness: 5.6mil
- Color: Green

19-050-550B

COMPLIANCE: Medically cleared 510K.
Meet ASTM™ Standard D 6319 for critical defects.

Size	Cat. No.	Pack of 100	Case of 10 Packs
Small	**19-050-550A**	39.34	334.48
Medium	**19-050-550B**	39.34	334.48
Large	**19-050-550C**	39.34	334.48
X-Large	**19-050-550D**	39.34	334.48

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Extended Cuff Nitrile Exam Gloves

Extended 12" cuff for added hand/arm protection

Extra-thick 6.0mil formulation provides exceptional durability and added protection.

- Powder-free
- Fully textured finish for a superior wet or dry grip
- Ambidextrous and nonsterile with beaded cuff
- Tested for use with chemotherapy drug exposure
- Length: 12" (30.5cm)
- Thickness: 6.0mil (palm), 7.0mil (finger), 4.5mil (cuff)
- Color: Teal

19-041-170C

COMPLIANCE: Meet 1.5 AQL standards. Comply with Biocompatibility Guidance for Medical Devices. Passes viral penetration test (ASTM™ F1671). Tested for use with chemotherapy drugs (ASTM F739). 510K-approved for medical use.

CERTIFICATIONS: ISO 9001 certified QMS

Size	Cat. No.	Pack of 50	Case of 10 Pk.
Small	**19-041-170A**	29.30	246.82
Medium	**19-041-170B**	29.30	246.82
Large	**19-041-170C**	29.30	246.82
X-Large	**19-041-170D**	29.30	246.82

Safety Choice™ Powder-Free Nitrile Disposable Exam Gloves

Seal polymer nitrile is powder-free, odorless, and 100% latex-free

- Textured fingers offer exceptional wet and dry gripping
- Beaded cuff resists tears and eases donning
- Ambidextrous
- Single-use
- Length: 9.5" (24cm)
- Thickness: 4mil
- Color: Blue

19-170-010B

COMPLIANCE:
Manufactured under good manufacturing practice (GMP) and are internationally accepted. 510K approved for medical use.
Meet ASTM™ D3578 and D6319 standards.

CERTIFICATIONS: ISO 9002 certified.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
Small	XL-012	**19-170-010A**	23.94	204.69
Medium	S-012	**19-170-010B**	23.94	204.69
Large	L-012	**19-170-010C**	23.94	204.69
X-Large	M-012	**19-170-010D**	23.94	204.69

Kimberly-Clark™ Purple Nitrile™ and Purple Nitrile™-XTRA™ Exam Gloves

Unique purple color distinguishes these gloves from latex and other synthetic gloves

Contain no natural rubber latex proteins, low levels of chemical allergens.

- Protect against a broad range of chemicals
- Provide excellent tactile sensitivity
- Textured fingertips enhance wet and dry grip
- Powder- and odor-free
- Single-use
- Available in 9.5" and 12" lengths
- Thickness: 5.9mil
- Static dissipative in use

COMPLIANCE:
Exceed ASTM D 6319 standard. Meet AQL-1.5 for critical defects. Meet FDA requirement for Class I medical device.

19-149-863B

Size	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
Purple Nitrile, 9.5" Long (24cm)				
X-Small	55080	**19-149-863**	100/31.72	260.10
Small	55081	**19149863A**	100/31.72	260.10
Medium	55082	**19149863B**	100/31.72	260.10
Large	55083	**19149863C**	100/31.72	260.10
X-Large	55084	**19-149-863D**	90/31.72	260.10
Purple Nitrile-XTRA, 12" Long (30.5cm)				
X-Small	55090	**19-149-864**	50/35.86	303.02
Small	50601	**19-149-864A**	50/35.86	303.02
Medium	50602	**19-149-864B**	50/35.86	303.02
Large	50603	**19-149-864C**	50/35.86	303.02
X-Large	50604	**19-149-864D**	50/35.86	303.02

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Kimberly-Clark™ Sterling™ Nitrile Exam Gloves

Excellent tactile sensitivity

Offer superior barrier protection while providing ultimate comfort.

- Powder-free
- Nonsterile
- Static dissipative
- Textured fingertips
- Beaded cuff
- Feature 50% more gloves per case
- 33% more storage space
- Ambidextrous
- Length: Available in 9.5 or 12"
- Thickness: 3.5mil
- Color: Sterling (gray/silver)
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail

19-050-592

COMPLIANCE: Meet FDA requirements for Class I medical device. Meet or exceed ASTM D 6319 standard. AQL 1.5.

Size	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
9.5" Long (24cm)				
X-Small	50705	**19-048-131**	200/58.18	491.62
Small	50706	**19-048-132**	200/58.18	491.62
Medium	50707	**19-048-133**	200/58.18	491.62
Large	50708	**19-048-134**	200/58.18	491.62
X-Large	50709	**19-048-135**	170/58.18	491.62
12" Long (30.5cm)				
X-Small	53137	**19-050-590**	100/38.57	327.85
Small	53138	**19-050-591**	100/38.57	327.85
Medium	53139	**19-050-592**	100/38.57	327.85
Large	53140	**19-050-593**	100/38.57	327.85
X-Large	53141	**19-050-595**	100/38.57	327.85

Kimberly-Clark™ KC100 Lavender™ Nitrile Exam Gloves

A superior alternative to stretch vinyl gloves

- Deliver superior protection, performance, and comfort
- Powder free
- Ambidextrous
- Beaded cuffs
- Nonsterile
- Textured fingertips
- Higher count per box saves space and waste
- Easy glove dispensing
- 2.8 mil thickness

19-150-202

COMPLIANCE:
Exceeds current ASTM Standards for critical defects, tensile strength, and puncture resistance. Biocompatible as measured by Primary Skin Irritation, Repeat Challenge Sensitization, and Hemolysis. Manufactured in accordance with Quality System ISO 9001.

Size	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
X-Small	52816	**19-150-200**	250/44.47	378.00
Small	52817	**19-150-201**	250/44.47	378.00
Medium	52818	**19-150-202**	250/44.47	378.00
Large	52819	**19-150-203**	250/44.47	378.00
X-Large	52820	**19-150-204**	230/44.47	378.00

Kimberly-Clark™ Blue Nitrile Exam Gloves

Contain no natural rubber latex protein

Gloves provide excellent tactile sensitivity, superior fit and comfort.

- Formulated with 100% nitrile
- Beaded cuff for added strength and easy donning
- Powder-free to prevent drying effect of glove powder and powder-induced irritations
- Ambidextrous, single-use
- Overall length: 9.5" (24cm)
- Thickness at fingertips: 6mil
- Color: Blue

ORDERING INFORMATION:
Available with textured fingertips or smooth finish.

COMPLIANCE:
Meet FDA requirements for Class I medical device. Meet or exceed ASTM D 6319 standards. AQL 1.5.

19-050-583B

Size	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
Smooth Finish				
X-Small	N110	**18-999-4409A**	100/41.55	353.18
Small	N220	**18-999-4409B**	100/41.55	353.18
Medium	N330	**18-999-4409C**	100/41.55	353.18
Large	N440	**18-999-4409D**	100/41.55	353.18
X-Large	N550	**18-999-4409E**	90/41.55	353.18
Textured Fingertips				
X-Small	53100	**19-050-583A**	100/48.44	409.32
Small	53101	**19-050-583B**	100/48.44	409.32
Medium	53102	**19-050-583C**	100/48.44	409.32
X-Large	53104	**19-050-583E**	90/48.44	409.32

Microflex™ Supreno™ SE Powder-Free Nitrile Exam Gloves

Durable nitrile for improved elasticity and greater comfort

Nitrile glove alleviates potential adverse reactions associated with natural latex protein.

19-048-723D

- Provide unparalleled strength, durability, and comfort
- Interior polymer coating provides easy donning
- Textured fingers ensure consistent grip
- Length: 9.6" (24cm)
- Fingertip thickness: 7.1mil
- Color: Blue
- Lowest pinhole rates (AQL 0.65) set a new standard for protection

COMPLIANCE:
Meet or exceed ASTM™ D 6319 standards.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	SU690XS	**19-048-723AA**	51.06	434.25
Small	SU690S	**19-048-723A**	51.06	434.25
Medium	SU690M	**19-048-723B**	51.06	434.25
Large	SU690L	**19-048-723C**	51.06	434.25
X-Large	SU690XL	**19-048-723D**	51.06	434.25

Microflex™ Supreno™ EC Powder-Free Nitrile Exam Gloves

Provide unparalleled strength, durability and comfort

Alleviate potential for adverse reactions associated with natural latex protein.

19-051-314D

- Made of durable nitrile for improved elasticity and greater comfort
- Ideal for higher risk environments
- Interior polymer coating provides easy donning
- Textured fingers ensure consistent grip
- Length: 11.6" (29.5cm)
- Fingertip thickness: 7.9mil
- Color: Blue

COMPLIANCE:
Gloves meet ASTM™ D 6319 Standards. Meet or exceed the emergency medical glove requirements of NFPA 1999 Standard on Protective Clothing for Emergency Medical Operations, 2003 edition. Tested for use with chemotherapy drugs.

Size	Mfr. No.	Cat. No.	Pack of 50	Case of 10 Pk.
Small	SEC-375-S	**19-051-314A**	30.61	246.61
Medium	SEC-375-M	**19-051-314B**	30.61	246.61
Large	SEC-375-L	**19-051-314C**	30.61	246.61
X-Large	SEC-375-XL	**19-051-314D**	30.61	246.61
2X-Large	SEC-375-XXL	**19-051-314E**	30.61	246.61

Microflex™ UltraSense™ Powder-Free Nitrile Exam Gloves

Ultra-soft fit and feel

High-quality nitrile offers reliable barrier protection against many hazards and infectious substances.

19-167-032E

- Ultra soft nitrile provides the fit and feel of latex
- Textured fingers provide outstanding grip in wet and dry environments
- Nonsterile, ambidextrous, single-use
- Length: 9.6" (24.4cm); Fingertip thickness: 4.7mil
- Color: Blue

COMPLIANCE: Meet ASTM™ D 6319 standards.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	US-220-XS	**19-167-032A**	56.32	475.44
Small	US-220-S	**19-167-032B**	56.32	475.44
Medium	US-220-M	**19-167-032C**	56.32	475.44
Large	US-220-L	**19-167-032D**	56.32	475.44
X-Large	US-220-XL	**19-167-032E**	56.32	475.44

Microflex™ XCEED™ Powder-Free Nitrile Exam Gloves

Soft, strong and comfortable gloves that fit every contour of the hand

XCEED gloves are one of the lightest weight nitriles on the market today, making the gloves extremely comfortable to wear and greatly enhancing tactile sensitivity.

19-177-522

- Ambidextrous, nonsterile, powder-free, blue, nitrile (Latex-free) gloves
- 9.5" (240mm) long
- 4.3mil finger thickness, 2.4mil beaded cuff, 2.8mil palm thickness
- Textured fingertips
- Reduces hand fatigue and muscle effort (US Ergonomics certification)
- Lowest pinhole rates (AQL 0.65) set a new standard for protection

APPLICATIONS: Automotive, dental, healthcare, industrial safety, laboratory, manufacturing, tattoo

ORDERING INFORMATION:
250 per box. 10 Boxes per case (10 × 250). X-Large glove: 230 gloves per box. 2300 per case (10 boxes).

ALERTS: Single use only.

Size	Mfr. No.	Cat. No.	Pack of 250	Case of 10 Pk.
Small	XC310S	**19-177-521**	55.71	476.19
Medium	XC310M	**19-177-522**	55.71	476.19
Large	XC310L	**19-177-523**	55.71	476.19
X-Large	XC310XL	**19-177-524**	55.71	476.19

Microflex™ Ultraform™ Powder-Free Nitrile Exam Gloves

Unique soft formulation forms to user' hand effortlessly as if it is second skin

19-167-302

Field tests show increase in fine motor task performance with Ultraform gloves compared to a bare hand.

- Ultra-stretchy
- Cobalt blue color
- Nonsterile
- Ambidextrous
- Textured fingertips
- Beaded cuff
- For single use only
- Available in five sizes
- Cuff length 9"
- Thickness 2.0 mils, palm 2.0mil, 3.1mil

Size	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
XS	UF-524-XS	**19-167-301**	300/34.38	275.00
Small	UF-524-S	**19-167-302**	300/34.38	275.00
Medium	UF-524-M	**19-167-303**	300/34.38	275.00
Large	UF-524-L	**19-167-304**	300/34.38	275.00
XL	UF-524-XL	**19-167-305**	250/34.38	275.00

Latex

Fisherbrand® Powdered and Powder-Free Latex Exam Gloves

Provide a watertight barrier for protection from infectious materials

11-394-5B

Flexible, durable and comfortable. Ideal for medical, laboratory and industrial applications

- Made of surgical-quality natural rubber latex
- Puncture- and tear-resistant with textured fingers
- Beaded cuff promotes easy donning
- Powdered gloves have a smooth finish and are lightly dusted with USP absorbable dusting powder
- Powder-free gloves are fully textured for excellent gripping power
- Ambidextrous, nonsterile, single-use
- Length: 9.5" (24cm)
- Thickness: 5mil
- Color: white

COMPLIANCE:
Meet ASTM™ D 3578 standards.

ALERTS:
These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Size	Cat. No.	Pack of 100	Case of 10 Pk.
Powdered			
X-Small	**11-394-4AA**	51.34	436.34
Small	**11-394-4A**	51.34	436.34
Medium	**11-394-4B**	51.34	436.34
Large	**11-394-4C**	51.34	436.34
X-Large	**11-394-4D**	51.34	436.34
Powder-Free			
Small	**11-394-5A**	66.43	564.58
Medium	**11-394-5B**	66.43	564.58
Large	**11-394-5C**	66.43	564.58
X-Large	**11-394-5D**	66.43	564.58

Fisherbrand® Powder-Free Latex Exam Gloves with Aloe

Help prevent chapped and cracked hands caused by moisture loss

19-050-548B

Gloves are coated inside with a soothing, skin-protecting aloe vera gel.
Contain ≤50µg/g of total water-extracted protein, reducing the risk of latex allergies.

- Fully textured
- Ambidextrous
- Nonsterile
- Length: 9.5" (24cm)
- Thickness: 5-6mil
- Color: Natural

COMPLIANCE: Medically cleared 510K. Meet ASTM™ Standard D 3578 for critical defects.

Size	Cat. No.	Pack of 100	Case of 10 Pk.
Small	**19-050-548A**	36.63	311.39
Medium	**19-050-548B**	36.63	311.39
Large	**19-050-548C**	36.63	311.39
X-Large	**19-050-548D**	36.63	311.39

WARNING

These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Safety Choice™ Economical Powder-Free Latex Exam Gloves

Provide consistent high quality for outstanding barrier protection, comfort and tactile sensitivity

- Beaded cuffs provide tear resistance and ease of donning
- Lack of powder reduces drying effects on skin and powder-related transfer of latex protein
- Ambidextrous, single-use
- Length: 9.5" (24.1cm)
- Thickness: 5mil
- Color: Natural

COMPLIANCE:
Manufactured under good manufacturing practice (GMP) and are internationally accepted. 510K approved for medical use. Meet ASTM™ D3578 standards.

CERTIFICATIONS: ISO 9002 certified.

19-058-801C

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	XS-011T	**19-058-801A**	29.30	249.00
Small	S-011T	**19-058-801B**	29.30	249.00
Medium	M-011T	**19-058-801C**	29.30	249.00
Large	L-011T	**19-058-801D**	29.30	249.00
X-Large	XL-011T	**19-058-801E**	29.30	249.00

Microflex™ Diamond Grip™ Powder-Free Latex Exam Gloves

Effective barrier against many hazards

Perfect choice for procedures that require greater tactile sensitivity for manipulation.

11-462-67E

- Made of premium quality, low modulus latex
- Offer high-tensile strength for excellent resiliency
- Thicker than the typical latex exam glove
- Textured surface ensures secure grip
- Beaded cuff for easy donning
- Ambidextrous, nonsterile, single-use
- Length: 9.6" (24.4cm)
- Thickness: 6.3mil
- Color: Natural

COMPLIANCE: Meet ASTM™ D 3578 standard.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	MF300 XS	**11-462-67A**	71.32	597.87
Small	MF300 S	**11-462-67B**	71.32	597.87
Medium	MF300 M	**11-462-67C**	71.32	597.87
Large	MF300 L	**11-462-67D**	71.32	597.87
X-Large	MF300 XL	**11-462-67E**	71.32	597.87

Microflex™ Comfort Grip™ Powder-Free Latex Exam Gloves

Reduced protein rating

- Natural rubber latex offers elasticity with protection and comfort
- Fully textured surface for secure grip
- Beaded cuff provides easy donning and doffing
- Ambidextrous, nonsterile, single-use
- Length: 9.6" (24.4cm)
- Thickness: 5.1mil
- Color: Natural

19-167-030E

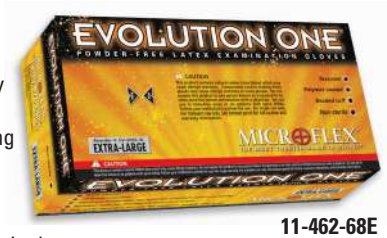
COMPLIANCE: Meet ASTM™ D 3578 standard.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	CFG-900-XS	**19-167-030A**	78.03	676.30
Small	CFG-900-S	**19-167-030B**	78.03	676.30
Medium	CFG-900-M	**19-167-030C**	78.03	676.30
Large	CFG-900-L	**19-167-030D**	78.03	676.30
X-Large	CFG-900-XL	**19-167-030E**	78.03	676.30

Microflex™ Evolution One™ Powder-Free Latex Exam Gloves

Unique polymer coating for easy donning and doffing

Ideal for handling potentially hazardous materials.



11-462-68E

- Excellent tactile sensitivity and high tensile strength
- Textured for better handling in wet conditions
- Beaded cuffs for easy donning and doffing
- Ambidextrous, nonsterile, single-use
- Length: 10" (25.4cm)
- Thickness: 5.5mil
- Color: Natural

COMPLIANCE: Meet ASTM™ D 3578 standard.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	EV-2050-XS	**11-462-68A**	83.59	717.38
Small	EV-2050-S	**11-462-68B**	83.59	717.38
Medium	EV-2050-M	**11-462-68C**	83.59	717.38
Large	EV-2050-L	**11-462-68D**	83.59	717.38
X-Large	EV-2050-XL	**11-462-68E**	83.59	717.38

WARNING

The products featured on this page contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Vinyl

Fisherbrand® Powder-Free Vinyl Exam Gloves

Excellent sensitivity and comfort

- 100% latex-free vinyl
- Smooth finish
- Beaded cuff
- Ambidextrous
- Nonsterile
- Length: 9.5" (24cm)
- Thickness: 5mil
- Color: Clear

19-041-190C

Size	Cat. No.	Pack of 100	Case of 10 Pk.
X-Small	**19-041-190A**	23.84	202.69
Small	**19-041-190B**	23.84	202.69
Medium	**19-041-190C**	23.84	202.69
Large	**19-041-190D**	23.84	202.69
X-Large	**19-041-190E**	23.84	202.69

Specialty

Microflex™ NeoPro™ Chloroprene Powder-Free Exam Gloves

Provide manual dexterity and tactile sensitivity with reduced hand fatigue

Chloroprene construction offers better puncture resistance than latex. Provides unique protection against a variety of chemicals.

19-120-3010E

- Made of polychloroprene to provide the barrier of a synthetic glove with the comfort and fit of natural rubber latex
- Enhanced memory for extended comfort and fit
- Textured fingers ensure secure grip
- Beaded cuff provides easy donning and doffing
- Ambidextrous, nonsterile, single-use
- Length: 9.6 or 12" (24.4 or 30.5cm)
- Fingertip thickness: 5.1mil
- Color: Spring Green

COMPLIANCE: Gloves meet ASTM™ D 3578 standard. Tested for use with Chemotherapy drugs.

Size	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
Length: 9.6" (24.5cm)				
X-Small	NPG-888-XS	**19-120-3010A**	42.08	359.62
Small	NPG-888-S	**19-120-3010B**	42.08	359.62
Medium	NPG-888-M	**19-120-3010C**	42.08	359.62
Large	NPG-888-L	**19-120-3010D**	42.08	359.62
X-Large	NPG-888-XL	**19-120-3010E**	42.08	359.62
Length: 11.3" (29cm)				
Medium	NEC-288-M	**19-050-340F**	26.70	192.38
Large	NEC-288-L	**19-050-340C**	26.70	192.38
X-Large	NEC-288-XL	**19-050-340D**	26.70	192.38
2X-Large	NEC-288-XXL	**19-050-340G**	26.70	192.38

Non-Exam

Latex

Safety Choice™ Natural Rubber Latex Gloves

Chlorinated gloves feature rolled, beaded cuffs to prevent tears

Manufactured in ISO 9002/ISO 14001 certified facility.

- Provide resistance to acids, alkalis, alcohols, salts, ketones and animal fats
- Recessed diamond texturing provides better gripping in slippery applications
- Provides increased comfort and ease of donning
- Ideal for food processing, electronics, laboratory, assembly and maintenance uses

19-816-826

Size	Mfr. No.	Cat. No.	Pack of 12 Pair	Case of 12 Pk.
Flock-lined, 19mil Thick, Yellow				
Small	FBW62Y/S	**19-816-827**	27.55	297.54
Medium	FBW62Y/M	**19-816-826**	27.55	297.54
Large	FBW62Y/L	**19-816-829**	27.55	297.54
X-Large	FBW62Y/XL	**19-816-828**	27.55	297.54

Kimberly-Clark Professional™ KleenGuard™ G10 Arctic Blue Nitrile Gloves

Provide the protection, performance and comfort of nitrile at an affordable everyday latex price

More comfortable and economical than standard nitrile gloves, yet provide excellent protection across a wide range of industrial applications. Ideal for electronic assembly, electrical contracting, painting, manufacturing, aluminum die casting, automotive and food handling applications.

- Outstanding comfort and ease of movement
- Natural rubber latex-free, reducing the risk of Type-I allergic reactions
- Provide the sensitivity of latex, the protection of nitrile
- Powder-free to minimize drying effects
- Food handling certified in North America and Europe
- Environmentally friendly packaging means more value, less waste
- Textured fingertips for better grip
- Beaded cuff for added strength and easy donning
- Ambidextrous; Length: 9.5" (24cm) Thickness: 2mil
- Color: Arctic Blue

19-021-002

Size	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
X-Small	90095	**19-021-000**	200/36.37	301.87
Small	90096	**19-021-001**	200/36.37	301.87
Medium	90097	**19-021-002**	200/36.37	301.87
Large	90098	**19-021-003**	200/36.37	301.87
X-Large	90099	**19-021-004**	180/36.37	301.87

Nitrile

Ansell™ Sol-Vex™ Nitrile Gloves

Embossed texture improves grip for easier handling of wet and slippery objects

Ideal for numerous applications involving chemical processing, oil refining, petrochemicals and food processing. Strong and chemical resistant — will not weaken or swell in many solvents, caustics or animal fats.

- Nitrile construction protects against abrasions, cuts, snags, and punctures
- Curved finger design and contoured palm help reduce fatigue
- Full cut for easy donning and doffing
- Contain no protein allergens
- Will not promote contact dermatitis
- Color: Dark Green

11-391-139C

COMPLIANCE:
Comply with FDA food handling requirements (21 CFR 177.2600)

Size	Mfr. No.	Cat. No.	Pack of 12 Pair	Case of
13" Long (33cm), 11mil Thick				
6	37 145 6	**11-391-136A**	42.80	12 Pk./408.00
7	37 145 7	**11-391-136B**	42.80	12 Pk./408.00
8	37 145 8	**11-391-136C**	42.80	12 Pk./408.00
9	37 145 9	**11-391-136D**	42.80	12 Pk./408.00
10	37 145 10	**11-391-136E**	42.80	12 Pk./408.00
11	37 145 11	**11-391-136F**	42.80	12 Pk./408.00
13" Long (33cm), 15mil Thick				
7	37 155 7	**11-391-137A**	49.75	12 Pk./447.50
8	37 155 8	**11-391-137B**	49.75	12 Pk./447.50
9	37 155 9	**11-391-137C**	49.75	12 Pk./447.50
10	37 155 10	**11-391-137D**	49.75	12 Pk./447.50
11	37 155 11	**11-391-137E**	49.75	12 Pk./447.50
13" Long (33cm), 15mil Thick, Flock-Lined				
6	37 175 6	**11-391-139A**	49.60	12 Pk./472.00
7	37 175 7	**11-391-139B**	49.60	12 Pk./472.00
8	37 175 8	**11-391-139C**	49.60	12 Pk./472.00
9	37 175 9	**11-391-139D**	49.60	12 Pk./472.00
10	37 175 10	**11-391-139E**	49.60	12 Pk./472.00
11	37 175 11	**11-391-139F**	49.60	12 Pk./472.00
15" Long (38cm), 22mil Thick				
8	37 165 8	**11-391-138B**	166.10	6 Pk./803.50
9	37 165 9	**11-391-138C**	166.10	6 Pk./803.50
10	37 165 10	**11-391-138D**	166.10	6 Pk./803.50
11	37 165 11	**11-391-138E**	166.10	6 Pk./803.50
18" Long (46cm), 22mil Thick				
7	37 185 7	**11-391-140A**	238.50	----
8	37 185 8	**11-391-140B**	238.50	----
9	37 185 9	**11-391-140C**	238.50	----
10	37 185 10	**11-391-140D**	238.50	----
11	37 185 11	**11-391-140E**	238.50	----

Butyl

North™ Butyl Gloves

High permeation resistance to gas or water vapors

For use with ketones and esters and applications such as chemical handling and processing and hazmat work.

- Made from butyl synthetic rubber
- All gloves have rolled cuffs
- Available with smooth or rough Grip Saf™ finish for wet applications
- Unlined; sanitized interior

11-394-8C

Size	Mfr. No.	Cat. No.	Pair
11mil, 13" long (27.9cm), smooth finish			
7	B131/7	**11-394-9A**	31.35
8	B131/8	**11-394-9B**	31.35
9	B131/9	**11-394-9C**	31.35
10	B131/10	**11-394-9D**	31.35
11	B131/11	**11-394-9E**	31.35
11mil, 13" long (27.9cm), rough finish			
7	B131R/7	**19-025-585**	40.20
8	B131R/8	**19-025-586**	40.20
9	B131R/9	**19-025-587**	40.20
10	B131R/10	**19-025-589**	40.20
11	B131R/11	**19-822-611**	40.20
16mil, 11" long (33cm), smooth finish			
7	B161/7	**19-025-590**	39.45
8	B161/8	**19-025-591**	39.45
9	B161/9	**19-025-592**	39.45
10	B161/10	**19-025-594**	39.45
11	B161/11	**19-050-565**	39.45
16mil, 11" long (33cm), rough finish			
7	B161R/7	**18-999-2371**	47.90
8	B161R/8	**19-025-596**	47.90
9	B161R/9	**19-025-597**	47.90
10	B161R/10	**19-025-598**	47.90
11	B161R/11	**19-025-599**	47.90
17mil, 14" long (35.6cm), smooth finish			
8	B174/8	**19-025-601**	58.40
9	B174/9	**19-025-602**	58.40
10	B174/10	**19-025-603**	58.40
11	B174/11	**19-025-600**	58.40
17mil, 14" long (35.6cm), rough finish			
8	B174R/8	**11-394-8A**	72.30
9	B174R/9	**11-394-8B**	72.30
10	B174R/10	**11-394-8C**	72.30
11	B174R/11	**11-394-8D**	72.30
32mil, 14" long (35.6cm), smooth finish			
8	B324/8	**11-395-44A**	76.90
9	B324/9	**11-395-44B**	76.90
10	B324/10	**11-395-44C**	76.90
11	B324/11	**11-395-44D**	76.90
32mil, 14" long (35.6cm), rough finish			
8	B324R/8	**11-395-45A**	95.80
9	B324R/9	**11-395-45B**	95.80
10	B324R/10	**11-395-45C**	95.80
11	B324R/11	**11-395-45D**	95.80

Neoprene

Ansell™ Unsupported Neoprene Gloves

Embossed finish for better grip

Case hardened to provide excellent resistance to abrasion and a wide range of chemicals, including oils, acids, caustics and solvents. Feature straight cuffs, curved fingers, contoured palm.

11-391-129C

Unlined

- Length: 12" long (30.5cm)
- Thickness: 17mil

Flock-Lined

- Soft, cotton-flock lining absorbs perspiration
- Lining, plus generously proportioned wrist, make donning and doffing easy
- Length: 13" long (33cm)
- Thickness: 18mil

Size	Mfr. No.	Cat. No.	Pack of 12 Pair	Case of 12 Pk.
Unlined				
7	29 845 7	**11-391-129A**	126.00	1111.00
8	29 845 8	**11-391-129B**	126.00	1111.00
9	29 845 9	**11-391-129C**	126.00	1111.00
10	29 845 10	**11-391-129D**	126.00	1111.00
11	29 845 11	**11-391-129E**	126.00	1111.00
Flock-Lined				
7	29 865 7	**11-391-130A**	125.90	1099.00
8	29 865 8	**11-391-130B**	125.90	1099.00
9	29 865 9	**11-391-130C**	125.90	1099.00
10	29 865 10	**11-391-130D**	125.90	1099.00
11	29 865 11	**11-391-130E**	125.90	1099.00

Fisherbrand® Flock-Lined Neoprene/Latex Double-Dipped Gloves

Protection with comfort

Ideal for general housekeeping, maintenance applications, food processing and food service applications, as well as industrial use. Double-dipped construction provides increased protection, versatile chemical resistance properties and comfort.

19-816-834

- Made of blue neoprene over yellow latex
- Raised diamond grip on palm and fingers for good wet or dry grip
- Flock lining to absorb perspiration; permits easy on and off
- Straight cuff
- Length: 12" (30.5cm)
- Thickness: 28mil

COMPLIANCE: Component materials comply with Regulations for Food Contact 21CFR, 170-199.

Size	Cat. No.	Pack of 12 Pair	Case of 12 Pk.
Small	**19-816-835**	80.20	868.00
Large	**19-816-834**	80.20	868.00
X-Large	**19-816-836**	80.20	868.00

WARNING

These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Specialty

North™ Silver Shield/4H Gloves

Resistant to a broader range of chemicals than any other glove material

- Resistant to over 280 different chemicals, including alcohols, aliphatics, aromatics, chlorines, ketones and esters – provide high performance protection in the most demanding applications
- Do not contain latex or chemical accelerators – little chance of allergic reactions
- Can be used as a secondary inner glove – allows worker maximum protection in heavy duty jobs where the dangers of mechanical damage to gloves are high
- Gloves and garments are 2.7 mil gauged

COMPLIANCE:
Pressure tested in accordance with ASTM™ F 1052-87.
Permeation tested in accordance with ASTM F 739-91.

18-999-431E

Size	Mfr. No.	Cat. No.	Pack of 10 Pair	Case of 5 Pk.
14.5" Long (39cm)				
6	SSG/6	**18-999-431A**	107.30	483.50
7	SSG/7	**18-999-431B**	107.30	483.50
8	SSG/8	**18-999-431C**	107.30	483.50
16" Long (43cm)				
9	SSG/9	**18-999-431D**	107.30	483.50
10	SSG/10	**18-999-431E**	107.30	483.50
12	SSG/11	**18-999-431F**	107.30	483.50

Work

Coated

PIP™ G-Tek™ MaxiFoam™ Gloves

Designed to channel oil away from glove surface for an excellent grip

For use in applications that require a high degree of dexterity and sensitivity, especially in oily applications. Coated palm and fingertips. White seamless knit nylon liner.

- Minimal penetration (strike through) keeps the liner soft on the inside of the glove
- Offer excellent dexterity, sensitivity and tactility
- Designed to produce minimal lint and dust
- Pre-laundered to reduce extractables; no additional shrinking or stiffness
- Cotton color binding denotes size

19-130-1174D

Size	Hem Color	Mfr. No.	Cat. No.	Pack of 12 Pair	Case of 12 Pk.
X-Small	Blue	34-800XS	**19-130-1174A**	111.50	1229.00
Small	White	34-800S	**19-130-1174B**	111.50	1229.00
Medium	Green	34-800M	**19-130-1174C**	111.50	1229.00
Large	Brown	34-800L	**19-130-1174D**	111.50	1229.00
X-Large	Yellow	34-800XL	**19-130-1174E**	111.50	1229.00

Ansell™ HyFlex™ Lite Urethane-Coated Nylon Gloves

Excellent for applications where dexterity is essential

Ideal for precision assembly and handling of small parts in applications such as electronics, packaging, inspection and use of sensitive instruments.

- Ultra-lightweight glove with polyurethane dipped palm
- Superior tactile sensitivity and added skin protection
- Stretch knit nylon liner offers cool, breathable comfort
- Color-coded cuffs aid in size identification
- Machine washable

19-152-159

Size	Cuff Color	Mfr. No.	Cat. No.	Pack of 12 Pair	Case of 12 Pk.
7	Red	11-600-7	**19-152-157**	69.20	613.00
8	Yellow	11-600-8	**19-152-158**	69.20	613.00
9	Brown	11-600-9	**19-152-159**	69.20	613.00

Cryogenic

Tempshield™ Cryo-Gloves™

Breathable, stay-dry lining

Ideal for use in cryogenic atmospheres (such as liquid nitrogen, oxygen or helium; liquified natural gas; dry ice; liquid baths; or blast freezers) where organs, blood units, pharmaceuticals or specimens are frozen.

- Comfortable and lightweight with excellent dexterity
- Protect hands and arms in temperatures as low as -250°F (162°C)
- Water-resistant and waterproof styles with breathable, stay-dry lining
- Contain no asbestos

Left to right: 11-394-323, 11-394-305, 11-394-306, 11-394-308

Size	Mfr. No.	Cat. No.	Pair	Case of 10 Pr.
Water-resistant Wrist Length, 11.5 to 12.75" (29 to 33cm)				
Small	WRS	**19-276-533**	168.20	1330.00
Medium	WRM	**19-276-534**	168.20	1330.00
Large	WRL	**19-276-535**	168.20	1330.00
Water-resistant Midarm Length, 13.5 to 15" (35 to 39cm)				
Medium	MAM	**11-394-305**	180.20	1418.00
Large	MAL	**11-394-200**	180.20	1418.00
X-Large	MAXL	**19-059-925**	180.20	----
Water-resistant Elbow Length, 18 to 20" (46 to 51cm)				
Medium	EBM	**11-394-306**	223.50	1874.00
Large	EBL	**11-394-307**	223.50	1874.00
X-Large	EBXL	**11-394-309**	223.50	1874.00
Water-resistant Shoulder Length, 26.5" (67.31cm)				
Large	SHL	**11-394-308**	295.50	2370.00
Waterproof Wrist Length with Liner, 11.5 to 12.75" (29 to 33cm)				
Small	WRSWP	**11-394-322**	204.50	1629.00
Medium	WRMWP	**11-394-323**	204.50	1629.00
Large	WRLWP	**11-394-324**	204.50	1629.00
Waterproof Midarm Length with Liner, 13.5 to 15" (35 to 39cm)				
Small	MASWP	**11-394-325**	219.50	1749.00
Medium	MAMWP	**11-394-326**	219.50	1749.00
Large	MALWP	**11-394-327**	219.50	1749.00
X-Large	MAXLWP	**11-394-328**	219.50	1749.00
Waterproof Elbow Length with Liner, 18 to 20" (46 to 51cm)				
Medium	EBMWP	**11-394-329**	271.50	2170.00
Large	EBLWP	**11-394-330**	271.50	2170.00
X-Large	EBXLWP	**11-394-331**	271.50	2170.00

WARNING

Not for immersion in liquid nitrogen or for use near open flame or in hazardous areas where ignition could occur.

PIP™ Temp-Gard™ Extreme Temperature Gloves

With strong grip and flexibility even at extreme temperatures

- Made from liquid-proof silicone fabric
- Impervious to cryogenic liquids and most other liquids and chemicals
- Easy to clean, will not absorb chemicals and will not stain
- Can be used at temperatures ranging from -196° to +260°C (+321° to +500°F)
- For use in extreme temperature procedures such as cryogenic cleaning, cryogenic systems maintenance and conservation of food produce
- Available in different sizes of wrist, mid-arm, elbow and shoulder lengths in black color
- Wrist length gloves come with elastic cuffs and other sizes come with gauntlet cuffs

19-130-5455

Size	Mfr. No.	Cat. No.	Pair
Wrist Length			
Small	202-1012/S	**19-130-5455**	300.00
Medium	202-1012/M	**19-130-5456**	300.00
Large	202-1012/L	**19-130-5457**	300.00
Mid-arm Length			
Small	202-1015/S	**19-130-5458**	367.00
Medium	202-1015/M	**19-130-5459**	367.00
Large	202-1015/L	**19-130-5460**	367.00
Elbow Length			
Small	202-1019/S	**19-130-5461**	416.50
Medium	202-1019/M	**19-130-5462**	416.50
Large	202-1019/L	**19-130-5463**	416.50
Shoulder Length			
Small	202-1027/S	**19-130-5464**	489.50
Medium	202-1027/M	**19-130-5465**	489.50
Large	202-1027/L	**19-130-5466**	489.50

Cut-Resistant

PIP™ G-Tek™ CR Plus Dyneema™ Cut-Resistant Gloves with Knitted Shell

Knitted shell with nylon and Dyneema filament

Made of polyethylene fibers 10 to 15 times stronger than steel, more durable than polyester, and 40% stronger than aramid fiber. Used for electronics, glass cutting, metal handling, food processing and meat processing.

- Seamless construction
- Resistant to chemicals, water and UV light
- Black nylon/Lycra™ blend, medium weight
- Color-coded hems for easy size identification
- Abrasion results: 9915 cycles

19-165-655D

Size	Hem Color	Mfr. No.	Cat. No.	Pack of 12 Pair
Small	Purple	19-D150/S	**19-165-655A**	286.50
Medium	Red	19-D150/M	**19-165-655B**	286.50
Large	Yellow	19-D150/L	**19-165-655C**	286.50
X-Large	Brown	19-D150/XL	**19-165-655D**	286.50

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Prices subject to change.

Graduates

Fisherbrand® Conical Polypropylene Graduates

Wide bases for increased stability

- Highly resistant to chemicals
- Withstand temperatures up to 121°C (262°F)
- Molded graduation markings for easy measuring

08-570-20A, 08-570-20D

Capacity	Subdiv.	Approx. Height	Cat. No.	Each	Case of 6
0.02 gal. (100mL)	0.06 oz. (2mL)	4.62" (117mm)	**08-570-20A**	18.11	91.92
0.06 gal. (250mL)	0.16 oz. (5mL)	6.37" (162mm)	**08-570-20B**	27.97	142.40
0.13 gal. (500mL)	0.33 oz. (10mL)	7.18" (183mm)	**08-570-20C**	30.23	153.71
0.26 gal. (1000mL)	0.67 oz. (20mL)	10.37" (264mm)	**08-570-20D**	61.10	314.50

Kimble-Chase™ Kimax™ Glass Dual-Scale Graduates

Calibrated "To Deliver"

- In English and metric

COMPLIANCE:
All sizes except 11-417-2D designed from ASTM™ Specification E 1094-98, Type 2 and NBS Handbook 44 requirements.

11-417D

Capacity	Subdivisions	Mfr. No.	Cat. No.	Each	Case of
4 dr./15mL	0.5 dr. (1-4)/1mL	60345 40	**11-417-2D**	91.20	12/807.00
8 dr./25mL	1 dr./5mL	60345 80	**11-417A**	104.90	----
2 oz./50mL	0.25 oz./5mL	60345 2	**11-417B**	173.70	12/1967.00
4 oz./100mL	0.5 oz./10mL	60345 4	**11-417C**	141.60	8/808.50
8 oz./250mL	0.5 oz./25mL	60345 8	**11-417D**	125.50	----
16 oz./500mL	1 oz./25mL	60345 16	**11-417E**	245.50	6/1086.00

Thermo Scientific™ Nalgene™ Double-Scale Pharmaceutical Graduates; PMP

Excellent chemical resistance

- Graduates are transparent, shatterproof and provide excellent chemical resistance for a wide variety of solutions
- Lighter in weight than glass, they protect against breakage
- Graduated in ounces and milliliters — no meniscus to confuse readings
- Autoclavable (will affect accuracy)
- Graduated

COMPLIANCE:
Conform to the volume and accuracy requirements of ASTM™ E1094.

11-423C

Capacity	Accuracy	Mfr. No.	Cat. No.	Each	Case of
4 oz. (125mL)	±1.8mL	3673-0004	**11-423A**	34.95	12/270.00
8 oz. (250mL)	±3.4mL	3673-0008	**11-423B**	44.70	12/345.50
16 oz. (500mL)	±4.8mL	3673-0016	**11-423C**	65.80	8/339.50
32 oz. (1000mL)	±9.0mL	3673-0032	**11-423D**	83.80	6/324.00

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Grease and Lubricants

Fisherbrand® Cello-Grease™ Lubricant

May be blended with Cello-Seal™ Grease

- Similar to Cello-Seal Grease except that it is heavier and darker
- Maintains consistency of petrolatum at 119°C (246°F)
- Size: 100g jar

STORAGE:
ChemAlert™ Storage Code: Gray (no major health hazard)

Cat. No.	Each	Case of 6
C602-100	129.22	560.40

Fisherbrand® Cello-Seal™ Grease

Won't add to pressure in vacuum system

- Low vapor pressure lubricant with consistency maintains consistency of petrolatum at 100°C (212°F)
- May be blended with Cello-Grease™ Lubricant for heavier consistency
- 100g jar

C601-100

Chem Packaging	Cat. No.	Each	Case of 6
Glass	**C601-100**	240.00	6/1052.00

Apiezon™ Greases

Low vapor pressure sealing agents and lubricants for high-vacuum applications

14-638-15A

Apiezon products are silicone-free, high-purity hydrocarbons distilled from selected petroleum feedstock in a molecular still.

- L Grease (14-638-15B) is an all-purpose high-vacuum lubricant that is also recommended for stationary liquid phase in gas-liquid chromatography
- M Grease (14-638-15C) is inexpensive enough to be used as general-purpose grease
- N Grease (14-638-15D) is a special cryogenic vacuum grease which forms a rubbery cushion at ambient temperature to protect glassware
- Both T Grease (14-638-15E) and H Grease (14-638-15A) are for high-temperature applications, with H Grease having the broadest range

Type	Temperature Range	Vapor Pres. at 20°C Torr	Size	Mfr. No.	Cat. No.	Each	Case of
L	+10° to +30°C	7×10^{-11}	50g	FAP/ G/L-00050	**14-638-15B**	268.00	5/1146.00
M	+10° to +30°C	1.7×10^{-9}	100g	FAP/ G/M-00100	**14-638-15C**	226.00	5/967.00
N	-269° to +30°C	6×10^{-10}	25g	FAP/ G/N-00025	**14-638-15D**	330.50	10/2790.00
T	+10° to +120°C	4.6×10^{-9}	25g	FAP/ G/T-00025	**14-638-15E**	275.50	10/2330.00
H	-10° to +240°C	1.7×10^{-9}	25g	FAP/ G/H-00025	**14-638-15A**	291.50	10/2380.00

Dow Corning™ High-Vacuum Grease

Designed for sealing and lubricating vacuum and pressure systems

14-635-5D

- Low vapor pressure, stiff, nonmelting silicone lubricant maintains its consistency from -40° to +204°C (-40° to +400°F)
- Resists oxidation and chemicals; noncarbonaceous

Size	Mfr. No.	Cat. No.	Each	Case of 12
5.3 oz. Tube (150g)	1597418	**14-635-5D**	58.20	573.00
8 lb. Can (3.6kg)	1658832	**14-635-5C**	171.32	685.26

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

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Prices subject to change.

Heaters

Electric Mantles

Fisher Scientific™ Heating and Stirring Mantles

Designed to stir and heat liquid — stirring can be single or bi-directional

- Vented case creates a unique airflow that allows housing to be safe to the touch when in use
- Grounding screen provides additional safety should liquids spill or flasks break
- Heating cartridge can be quickly and easily replaced
- Mantles are double fused for added safety
- Automatic capture catches the stir bar to start stirring if stirring is disrupted
- Two indicator lights signal power on and heater on

11-473 Series

WARRANTY:
One year parts and labor

CERTIFICATIONS: CE

Specifications	
Material	Polypropylene
Max. Element Temperature	450°C (842°F)

Capacity	Electrical Requirements	Mfr. No.	Cat. No.	Each
50mL	115V 50/60Hz, 96w	EMA0050/CEBX1	**11-473-18**	1693.00
100mL	115V 50/60Hz, 96w	EMA0100/CEBX1	**11-473-19**	1760.00
250mL	110V 50/60Hz, 210w	EMA0250/CEBX1	**11-473-20**	1848.00
500mL	115V 50/60Hz, 270w	EMA0500/CEBX1	**11-473-21**	1910.00
1000mL	115V 50/60Hz, 400w	EMA1000/CEBX1	**11-473-22**	1972.00
2000mL	110V 50/60Hz, 595w	EMA2000/CEBX1	**11-473-23**	2070.00

Fisher Scientific™ Spill Proof Mantles and V-Shaped Mantles

Heat flask and funnels

- Element temperature 450°C (842°F)
- Unique airflow through ventilation slots beneath and around the rim of the case ensure a low, cool temperature to the touch
- Coiled heating element, suspended within a thermal insulating cartridge, provides maximum heat transfer and support
- Heating element can be turned on or off
- Bottom outlet accommodates 60° funnels of various diameters
- Chemical-resistant polypropylene housing
- Built-in electronic controller
- Stainless-steel screen covers the heated elements to protect you from shock hazards due to spills or flask breakage

11-473-25

INCLUDES:
One bracket for 1.3cm (0.5") support rods (5000mL size has three)

CERTIFICATIONS: CE

Specifications	
Material	Polypropylene Case
Max. Element Temperature	450°C (842°F)

Capacity	Electrical Requirements	Cat. No.	Each
V-Shaped			
50mL, 25mL, 50mL (pear); 50mL (round)	115V 50/60Hz, 75w	**11-473-25**	634.00
100mL, 150mL, 250mL	115V 50/60Hz, 150w	**11-473-27**	718.50
500mL, 1000mL	115V 50/60Hz, 300w	**11-473-29**	816.50
2000mL, 3000mL, 5000mL	115V 50/60Hz, 800w	**11-473-31**	1269.00

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Before You Buy **Cryostats**

Thermo SCIENTIFIC

Selecting the Right Features for Your Application

Temperature Control: Exceptional section quality is achieved by consistent sample temperature. Cryostats use a variety of cooling mechanisms. Chamber cooling is most common; however, one may experience temperature fluctuations when the chamber door is open. Rapid Response temperature control actively cools the sectioning surface temperature in addition to chamber cooling to maintain precise temperature stability and deliver optimal section quality.

Height Adjustment: If ergonomics are important to you, especially if you plan to section for long periods of time, you may want the option to adjust the cryochamber to your ideal height for sectioning.

Vacutome: Tissue curling is a common challenge in frozen sectioning. The vacutome creates a gentle air tunnel under the anti-roll plate during sectioning to help with curling. Connect a vaccum hose to remove debris from the chamber in cleaning mode.

Disinfection: A variety of disinfection methods are available on cryostats today ranging from UV light to fumigation. UV disinfection effectively protects users against surface contamination. The cold disinfection method fills the cold cryochamber with a nonhazardous hydrogen peroxide-based fog to quickly, safely and thoroughly disinfect the complete chamber including areas missed by UV light.

Motorized sectioning: In addition to manual sectioning, many users enjoy the option to turn on motorization, especially if sectioning for extended periods of time.

Features To Look For

The CryoStar NX Family of Cryostats

Unmatched Sectioning Quality, Ergonomics and Safety

- Optimized sectioning quality with new microtome designs and Rapid Response temperature control.
- Improved ergonomics completely designed around the user.
- Most energy efficient cryostats available.
- Optional height adjustment, vacutome, UV and Cold Disinfection for maximum user comfort and safety.
- User-friendly touch screen with intuitive icon interface.
- Three instruments to span any budget and application level: HM525NX, NX50 and NX70.

The Thermo Scientific Ultra Blades

Highest quality tissue sections with maximum cutting performance and blade life

- Faster ribboning
- Increased longevity
- Reliable consistency

	HM525NX	NX50	NX70
Optimized sectioning quality	●	●	●
User-friendly touch screen	●	●	●
Chamber cooling	●	●	●
Rapid Response temperature control		●	●
Ergonomic contoured design		●	●
Highest energy efficiency		●	●
High-intensity UV disinfection	Optional		
Cold disinfection		Optional	Optional
Vacutome		Optional	Optional
Height adjustment		Optional	●
Motorized sectioning			●

For catalog information and ordering, please visit http://www.fishersci.com

Histology

Chemicals and Reagents

Fisher HealthCare™ Pinnacle Portfolio

Designed as a complete system

- Each component has added value and benefits that reduce your cost per slide.
- The unique chemical formulae of the Pinnacle Portfolio promote long-term chemical stability, which extends the usable life of each component.
- Pinnacle Portfolio products are subjected to some of the highest quality manufacturing standards in the industry.
- Packaging improvements enhance product longevity.

Pinnacle Portfolio Bluing Reagent Stain

Ensures crisp nuclear detail

22-220-106

Bluing Reagent Features:

- Buffered to ensure the proper alkalinity (pH = 8.0)
- Requires only a one-minute rinse in water versus conventional bluing agents which require up to five minutes of rinsing
- Does not allow for tissue sections to be washed off the slide during the remainder of the staining process
- Premixed and ready-to-use

Size	Cat. No.	Each	Case of 4
1 gal.	**22-220-106**	57.60	178.60

Pinnacle Portfolio Clarifier™ 2

Unique acetic acid reagents, developed to supplement our family of hematoxylins

22-220-108

Clarifier 2 Features:

- Removes background stain caused by excessive use of tissue adhesive
- Increases cell transparency
- Selectively removes hematoxylin staining caused by excess adhesive without affecting nuclear staining
- Use of Clarifier will improve contrast between the nuclei and cytoplasm
- Acid alcohol requires quick dips while Clarifier dictates a set time (30-60 seconds for Clarifier 1 and 20-30 seconds for Clarifier 2)

Size	Cat. No.	Each	Case of 4
1 gal.	**22-220-108**	40.40	123.50

Pinnacle Portfolio Eosin-Y Stain

A fast-acting, alcoholic counterstain which provides excellent delineation of cytoplasmic components

22-220-104

Eosin-Y Stain Features:

- The color contrast between the nuclei and cytoplasm is unmatched
- Various shades of red and pink differentiate muscle, red blood cells and connective tissue
- Strict quality assurance guarantees product consistency and longevity
- Quantitative testing eliminates the need for adjustments in dilution or time

Size	Cat. No.	Each	Case of 4
500mL	**22-220-104**	41.95	127.40

Pinnacle Portfolio Hematoxylin 1 Stain

Rapid stain requires no filtration prior to use

22-220-101

Hematoxylin 1 Stain Features:

- Produces staining intensities similar to Gill-1, -2, and -3 hematoxylins, based on timing
- Will not form crystals upon standing or exposure to cold weather
- Developed to prevent the formation of metallic sheens
- Does not contain alcohol

NOTES:
Differentiation is not necessary; however, Clarifier™ 1 should be used to eliminate any background staining caused by the use of excessive water bath adhesive

Size	Cat. No.	Each	Case of 4
500mL	**22-220-101**	45.35	138.20

Pinnacle Portfolio Hematoxylin Stain+

Uniquely formulated product yields results which exceed that of Gill or Harris hematoxylins

22-220-100

Hematoxylin Stain-Plus

- No affinity for acid mucopolysaccharide (mucin) staining
- Slides stained with Hematoxylin+ are crisp with clear, well-defined nuclear chromatin delineation
- Uses aluminum ammonium sulfate at its saturation point to maintain the highest amount of dye-lake complex for optimal staining
- Does not contain alcohol

Size	Cat. No.	Each	Case of 4
500mL	**22-220-100**	52.90	162.10

Fisher HealthCare™ PROTOCOL™ 10% Buffered Formalin-Filled Containers

Specifically engineered for storage of histological tissue specimens

23-426-79 Series

- PET
- Crystal-clear, non-autoclavable
- Flexible containers are resistant to alkalis and weak acids
- Prefilled containers are supplied with silk-screened warning label

Capacity	Fill Volume	Cat. No.	Case of
8 oz. (240mL)	4 oz. (120mL)	**23-426-796**	60/121.41
16 oz. (480mL)	8 oz. (240mL)	**23-426-797**	32/107.01

Fisher HealthCare™ PROTOCOL™ Hema 3™ Manual Staining System

For 30-second, three-step staining comparable to the Wright-Giemsa method

23-123-869

Cell Type	Color of Nucleus	Color of Cytoplasm	Color Granules
Erythrocytes	----	Pink or yellowish-red	----
Leukocytes Granular			
Polymorphonuclear neutrophils	Dark blue	Pale pink	Reddish-lilac
Basophils†	Purple to dark blue	----	Dark purple to almost black
Eosinophils	Blue	Blue	Red/red-orange
Nongranular			
Monocytes	Violet	Sky blue	----
Lymphocytes	Violet	Sky blue	----
Platelets	----	----	Violet to purple

† *Water-soluble cell components may take up aqueous stain differently.*

Description	Quantity	Cat. No.	Each	Case of
Hema 3 Stat Pack (includes Fixative and Solutions I and II)	3 × 90mL	**23-123-869**	70.82	12/646.88
Hema 3 System (includes Fixative and Solutions I and II)	3 × 500mL	**22-122-911**	271.96	10/2194.40
Fixative	1 gal.	**23-122-929**	300.50	4/965.00
Solution I	1 gal.	**23-122-937**	503.50	4/1624.00
Solution II	1 gal.	**23-122-952**	503.00	4/1624.00

Fisher HealthCare™ PROTOCOL™ Histological/ Cytological Stains

Manufactured with strict quality control to ensure lot-to-lot uniformity

Prepared with stain certified by the Biological Stain Commission.

23-245-678

Name	Quantity	Cat. No.	Each
Bluing Agent	4L	**23-245-681**	154.60
Eosin Y, 1% Alcohol	1L	**23-245-658**	97.24
Eosin Y, 1% Alcohol	4L	**23-245-827**	195.50
Eosin Y, Intensified	1 gal.	**23-314-631**	180.46
Gill Hematoxylin (3X)	4L	**23-245-657**	234.50
Harris Hematoxylin, Mercury-free	4L	**23-245-651**	196.70
Harris Hematoxylin, Mercury-free Acidified	4L	**23-245-678**	289.50

Fisher Scientific™ Permount™ Mounting Medium

For both mounting and long-term storage of slides

- Low viscosity
- Gives a thinner adhesive layer for better optical quality
- A refractive index near that of fixed protein helps keep image free of optical imperfections such as diffraction halos
- Suitable for mounting cover slips to slides with thick or thin specimens
- Won't shift the colors of biological dyes
- Won't lose its cohesiveness, adhesive quality, or color with age
- Preserves most biological dyes with little or no fading when slides are stored in darkness

SP15-100

Quantity	Cat. No.	Each	Case of 6
100mL	**SP15-100**	37.40	170.90
500mL	**SP15-500**	83.70	386.00

Fisher Scientific™ SureStain™ Stains

Fast, reliable staining for differential blood cell analysis

- For manual staining
- Produce uniform results
- Use for immersion or rack-type staining procedures
- Entire procedure can be performed in 30 seconds

ORDERING INFORMATION:
32 oz. bottles.

STORAGE:
Store at room temperature

Stain	Cat. No.	Each	Case of 12
Wright	**CS432D**	147.50	1367.00
Wright-Giemsa	**CS434D**	158.60	1472.00

Fisher HealthCare™ PROTOCOL™ Color-Coded Prefilled Formalin Containers

Prefilled with 10% neutral buffered formalin

- Color-coded screw cap with leakproof O-ring
- Autoclavable polypropylene
- Paper labels to indicate date, doctor, patient name or ID, and specimen type
- Graduated

ORDERING INFORMATION:
The 20/10, 40/20 and 60/30mL containers are packaged in shrink wrapped trays to allow for ease of use, handling and storage.

23-032-059, 23-316-156, 23-316-155, 23-316-154

Capacity	Buffer Volume	Cap Color	Qty./Tray	Cat. No.	Case of
Shrink Wrapped Trays					
20mL	10mL	Green	4 Trays of 25	**23-032-059**	100/99.40
40mL	20mL	Red	5 Trays of 30	**23-316-154**	150/213.21
60mL	30mL	Blue	3 Trays of 25	**23-316-155**	75/70.66
Standard Packaging					
90mL	45mL	Orange	—	**23-316-156**	75/66.02
120mL	60mL	Yellow	—	**23-032-060**	50/63.04

Decon™ Flash Freeze™ Rapid Freezing Spray

Moisture-free propelled cold air

Used to rapidly cool or freeze samples in scientific laboratories.

22-281-496

Mfr. No.	Cat. No.	Each	Case of 6
3511	**22-281-496**	36.75	182.00

Thermo Scientific™ Shandon™ Aqua-Mount Slide Mounting Media

Formulated for immunostaining and other techniques

- Nonfluorescing medium with low viscosity for maximum specimen absorption
- Resists fading and polymerizes quickly for easy slide handling

Description	Mfr. No.	Cat. No.	Each
20mL	13800	**14-390-5**	28.65

Thermo Scientific™ Richard-Allan Scientific™ Histoplast Paraffin

Developed to meet the demanding and versatile needs of the laboratory

- Made of paraffin and plastic polymers
- Delivers excellent processing and yields thin, wrinkle-free sections

8330

Description	Composition	Size	Cat. No.	Each
Histoplast PE	Paraffin and plastic polymers	8 × 1kg bags	**8330**	103.50
Histoplast LP	Low molecular weight paraffin and polymers to reduce melting point	8 × 1kg bags	**8332**	141.80

Decon™ Hyde-Away™ Formalin Neutralizer

Neutralizes spent formalin and other aldehydes for drain or trash disposal

- Highest neutralization ratio available — liquid 1:15, crystals 1:30
- Useful for formaldehydes, formalin and glutaraldehydes
- Liquid allows for drain disposal; crystals solidify waste for trash disposal
- Excellent for spills
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Recycled, nontoxic

04-355-77

Description	Size	Mfr. No.	Cat. No.	Each	Case of
Crystalline Powder	30 oz.	2224	**04-355-77**	57.30	12/577.50
Liquid	1 gal.	2201	**04-355-78**	98.30	4/346.72

Microtome Accessories

Fisher Scientific™ Tissue Path™ High-Profile Microtome Blades

- Heat-treated, high carbon blades are precision-ground for optimal angle and facet configuration
- Thicker size has greater rigidity to prevent chattering and produces excellent ribboning characteristics

ORDERING INFORMATION:
Packaged in easy-to-use dispenser packs.

Thickness	Mfr. No.	Cat. No.	Pack of 50
0.3mm (0.012")	58054	**22-030-530**	141.70

Thermo Scientific™ HP35 Disposable Microtome Blades

Ideal for routine applications with a high proportion of harder tissue

- High profile
- Increased durability
- L × W: 29 1/2 × 5 1/2" (75 × 14mm)
- Thickness: 0.01" (0.31mm)
- Cutting Angle: 35°

Description	Cat. No.	Pack of 50
Noncoated	**31-527-35**	157.40

Thermo Scientific™ MX35 Premier Disposable Low-Profile Microtome Blades

Provide superb performance for sectioning hard tissues and high-quality thin sections

30-528-35

- Low profile
- Sharper edge with increased durability for longer blade life
- Premier Plus blades provide greater durability, superior sharpness for lower blade friction and longer blade life
- L × W: 31.5 × 3.13" (80 × 8mm)
- Thickness: 0.01" (0.25mm)
- 30-518-35: Cutting Angle: 34°
- 30-528-35: Cutting Angle: 35°

Description	Cat. No.	Case of 50
Premier	**30-518-35**	144.40
Premier Plus	**30-528-35**	159.55

Supplies

Fisherbrand® HistoPrep™ Modular File Drawer

To transport, just remove drawer and go

15-182-511A

- Stackable self-contained drawers
- Made of high impact plastic
- Two drawers hold 250 cassettes or embedding rings

INCLUDES:
Color decals to separate and organize by function

Type	Cat. No.	Case of 2
Without Cassettes	**15-182-511A**	80.70

Storage capacity approximate. Compatible with common brand names of cassettes and embedding rings, including HistoPrep and OmniSette

Fisherbrand® Histosette II™ Tissue and Biopsy Cassettes

Open and close as often as necessary — cassettes will always relock securely

- Disposable, plastic cassettes hold tissue specimens during embedding, processing and storage
- Molded from a special high-density polymer
- Resistant to the chemical action of histological solvents
- Efficient flow-through slots maximize fluid exchange and ensure proper drainage
- One-piece integral lid eliminates the need for separate steel lids
- The anterior writing surface is slanted at a 45° angle, making the cassette more suitable for use with certain types of labeling instruments

ORDERING INFORMATION:
Available in six noncytotoxic, nonmetallic colors.

	Tissue Cassettes		Biopsy Cassettes	
	Cat. No.	Case of 1500	Cat. No.	Case of 1500
Combination Lid and Base				
Lilac	**15-182-701J**	388.00	**15-182-702J**	427.50
Orange	**15-182-701K**	386.84	**15-182-702K**	421.00
White	**15-182-701A**	388.00	**15-182-702A**	431.00

	Tissue Cassettes		Biopsy Cassettes	
	Cat. No.	Case of 1000	Cat. No.	Case of 1000
Separate Lid and Base				
Blue	**15-182-708E**	267.80	**15-182-709E**	282.50
Green	**15-182-708C**	269.50	**15-182-709C**	281.50
Lilac	**15-182-708J**	243.00	**15-182-709J**	282.50
Pink	**15-182-708B**	243.00	**15-182-709B**	281.52
White	**15-182-708A**	243.00	**15-182-709A**	282.50

Equipment

Thermo Scientific™ Gemini AS Automated Slide Stainer

A multitasking stainer providing greater throughput and multiple stain protocols in a footprint small enough to place in the tightest spaces for optimal laboratory workflow

The Gemini AS Automated Slide Stainer delivers high-throughput staining capabilities to the busy histology laboratory. With its new intuitive touch-screen interface, operation is easy-to-learn and simple-to-use.

The unique dual-level design, with integrated power supply and touch-screen, ensures maximum space savings. With its small footprint, the Gemini AS Stainer can be placed near the sectioning area for optimal workflow. The intelligent look-ahead control software provides the ability to run up to 12 slide racks simultaneously with minimal reduction in speed. The "urgent" feature enables a rack to be given priority for MOHS surgery or similar STAT needs. The five heated stations provide maximum throughput without the need for a separate drying oven.

Thermo Scientific Gemini AS Automated Slide Stainer

Multidimensional Design

- Two-tier design occupies minimal bench space
- Integrated color touch-screen with intuitive software for quick learning and simple operation
- Scheduler software allows multiple protocols and slide racks to be run simultaneously at optimal speed
- Easy-to-see progress of slides and placement of reagents with built-in LED lighting
- Pre-programmed with optimized protocols for Thermo Scientific Signature Series Stains
- Fully editable protocols and stain sets provide flexibility in programming
- Safety for the slides and the operator with fume extraction, battery backup and lockable slide racks
- 26 or 31 reagent stations to accommodate multiple protocols without changing reagents
- Reagent monitoring with simple one-touch on-screen view of reagent status

Performance

- Battery backup with 40 minutes of continual staining power
- Download protocols and log files via USB connectivity
- Load-on-demand flexibility with STAT capability
- Units available with or without five independently heated stations
- Six running water stations
- Four configurable doors for convenient loading and unloading
- Fume control easily managed with carbon filters or vent adapter kit
- Internal flow regulators and anti-siphon devices to protect water supply
- Lockable baskets to ensure secure slides, even upside down
- Auto-return recalls any loaded basket to the load door
- Passcode protection to secure customized protocols

STORAGE:
Ambient room temperature

WARRANTY:
1 year from date of installation

CERTIFICATIONS:
Designed to meet IEC61010. CSA approved. UL listed. CE marked (IVDD compliant).

Description	Mfr. No.	Cat. No.	Each
Gemini AS Heated	A81500001	**A81500001**	32,300.00
Gemini AS Unheated	A81500002	**A81500002**	31,300.00

Tissue Processing

Thermo Scientific™ CryoStar™ NX50 Cryostat

Manual cryostat designed to accommodate the needs of the routine clinical laboratory by offering a form-fitting ergonomic design, with optional height adjustment, vacutome and Cold D disinfection

Thermo Scientific CryoStar NX50 Cryostat

Follows in the footsteps of the CryoStar NX70 Cryostat by offering standard features well-suited to the routine clinical histology laboratory.

Ergonomic/Safety features

- Optional height adjustment from 82-112cm allows for sectioning while sitting or standing and acommodates users of different heights
- Body contoured band and integrated arm rest controls
- Motorized coarse advance to max 3mm/s
- Cold Disinfection (optional) disinfect the cryochamber in 50 min.
- Handwheel lock, blade guard and magnetic blade removal tool
- Three program memory for storage of regular sectioning parameters
- Touch screen operation with intuitive software
- Manual sectioning — For motorized sectioning please see the NX70 cryostat

Cryochamber features

- Spacious stainless steel chamber for workflow organization
- Chamber cooling to -25°C ± 2°C (at 20°C ambient)
- Separate specimen head cooling to -43°C ± 2°C (at 20°C ambient)
- Continuously cooled knife holder to -27°C ± 2°C (at 20°C ambient)
- 18 cryobar storage positions including 1 quick freeze location
- Integrated peltier fast freezing device rapidly cools to -57°C ± 3°C
- Vacutome (optional) for stretching of cryosections

Microtome features

- Manual light touch rotary flywheel
- Section thickness from 0.5µm to 500µm
- Precise stepping motor blade advance for minimal vibration when sectioning
- Vertical stroke length of 64mm
- 48mm horizontal feed range
- 20µm specimen retraction on return stroke, with optical indication
- Sample orientation adjustable 8° in the Y axis for increased stability and 360° Z axis rotation
- Standard unit includes Rapid Response Object Head Temperature Control, form-fitting design and color touch screen

Specifications	
Dimensions	D x W x H (Adjustable Range): 39.4 x 29.7 x 32.3 to 44.0" (100 x 75.5 x 82 to 112cm)
Weight	440 lb. (200kg)
Specimen Temperature Control	-43°C ±2°C (-45°F ±35.6°F) at +20°C/+58°F ambient
Blade Holder Temperature Control	-27° to -20°C ±2°C (-16.6° to -4°F) at +20° to +30°C (+68° to +86°F) room temp.
Peltier Cooling	-57°C ±3°C (-70.6°F +35.6° to -26.6°F) at +20°C/+58°F ambient
Defrosting Options	Programmed / Immediate
Fine Section Thickness Range	Range 0.5 to 100µm
Fine Section Thickness Resolution	0.5 to 5µm in 0.5µm steps 5 to 10µm in 1µm steps 10 to 20µm in 2µm steps 20 to 50µm in 5µm steps 50 to 100µm in 10µm steps
Trimming Thickness Range	5 to 500µm
Trimming Thickness Resolution	5 to 30µm in 5µm steps 30 to 100µm in 10µm steps 100 to 200µm in 20µm steps 200 to 500µm in 50µm steps
Specimen Retraction (Return Travel)	20µm
Vertical Specimen Stroke	64mm
Horizontal Blade Holder Movement	48mm
Blade Holder Approach	Stepper motor controlled through simple touch screen display
Chuck Size	30, 40mm (additional special sizes are available)
Chuck Colors	Green/Red/Blue/Gold/Alum
Specimen Orientation	Y axis 8° adjustable for increased stability; Z axis adjustable 360°
Coarse Feed	Motorized (on/off)
Cutting Drive	Manual
Cutting Window	Manually adjusted to specimen size
Clearance Angle Adjustment	Disposable blade carrier 8 to 16°

INCLUDES:

Standard Unit: 30mm Specimen Chuck -Red, 30mm Specimen Chuck - Green, 30mm Specimen Chuck - Blue, 30mm Specimen Chuck - Gold, Allen Key - 5mm, Allen Key - 6mm, Waste tray, Brush shelf, Brush -coarse f/cleaning, Magnetic Brush - small beveled, Magnetic Brush - goat's hair, Blade handling tool, power cord, USB stick, adjusting pin, Operator guide, anti-roll plate

With Vacutome: Additional Brush f/cleaning vacuum hose, Coarse filter f/use with vacutome, Hose Extension w/nozzle - vacutome, Nozzle - sectioning, Filter bag 25 pcs

With Cold Disinfection: Additional Measuring Cup, Plastic funnel

REQUIRES: Low- or High-profile blade holder or 16cm steel knife carrier; must be designated at time of ordering

WARRANTY: One-year warranty

CERTIFICATIONS: Certificate of Hygiene, CE Marked

Description	Cat. No.	Each
NX50; With High-Profile Blade Carrier	**957100H**	31,600.00
NX50; With Steel Blade Carrier	**957100K**	30,100.00
NX50; With Low-Profile Blade Carrier	**957100L**	31,600.00
NX50; With Height Adjustment With High-Profile Blade Carrier	**957110H**	32,600.00
NX50; With Height Adjustment With Steel Blade Carrier	**957110K**	31,200.00
NX50; With Height Adjustment With Low-Profile Blade Carrier	**957110L**	32,600.00
NX50; With Vacutome With High-Profile Blade Carrier	**957120H**	34,600.00
NX50; With Vacutome With Steel Blade Carrier	**957120K**	33,200.00
NX50; With Vacutome With Low-Profile Blade Carrier	**957120L**	34,600.00
NX50; With Height Adjustment and Vacutome With High-Profile Blade Carrier	**957130H**	36,700.00
NX50; With Height Adjustment and Vacutome With Steel Blade Carrier	**957130K**	35,200.00
NX50; With Height Adjustment and Vacutome With Low-Profile Blade Carrier	**957130L**	36,700.00
NX50 OPHV; 100-120V; High Profile Blade Holder	**957230H**	32,900.00
NX50 OPHV; 100-120V; Steel Knife Holder	**957230K**	31,500.00
NX50 OPHV; 100-120V; Low Profile Blade Holder	**957230L**	32,900.00
NX50 OP; 100-120V; High Profile Blade Holder	**957250H**	29,500.00
NX50 OP; 100-120V; Steel Knife Holder	**957250K**	28,100.00
NX50 OP; 100-120V; Low Profile Blade Holder	**957250L**	29,500.00
NX50 OPH; 100-120V; High Profile Blade Holder	**957260H**	30,500.00
NX50 OPH; 100-120V; Steel Knife Holder	**957260K**	29,100.00
NX50 OPH; 100-120V; Low Profile Blade Holder	**957260L**	30,500.00
NX50 OPV; 100-120V; High Profile Blade Holder	**957270H**	31,900.00
NX50 OPV; 100-120V; Steel Knife Holder	**957270K**	30,400.00
NX50 OPV; 100-120V; Low Profile Blade Holder	**957270L**	31,900.00

Thermo Scientific™ CryoStar™ NX70 Cryostat

Specifically designed to accommodate the needs of both research and clinical laboratories by introducing a form-fitting design, integrated height control and motorized sectioning

Standard Features

- Knife advance
- Designations for both low and high blade holders
- Multi-axis specimen orientation
- High quality motorized sectioning
- Specimen retraction

Ease of Use

- Large open chamber with bright LED lighting
- Integrated color LCD touch screen
- Joystick

Temperature Control

- Precise control through periods of prolonged use
- Rapid Response Temperature Control cools object holder, blade holder and cryobar only

Comfortable Ergonomic Design

- Integrated electronic hight adjustment from 32 to 44 inches
- Form-fitting front panel and arm rest to reduce user fatigue

Chose between a low- or high-profile blade holder or 16cm steel knife carrier

- CryoStar NX70 - standard features include electronic height adjustment, Rapid Response Temperature Control, multi-axis specimen orientation, motorized sectioning, specimen retraction, form-fitting design
- CryoStar NX70 D - adds Cold Disinfection option
- CryoStar NX70 V - adds Vacutome option
- CryoStar NX70 DV - adds both Cold Disinfection and Vacutome to the list of standard features
- All CryoStar NX70 versions offer either a low- or high- profile blade holder or 16cm steel knife carrier

Description	Mfr. No.	Cat. No.	Each
With Low-Profile Blade Carrier	957000L	**14-071-401**	45,500.00
With High-Profile Blade Carrier	957000H	**14-071-442**	45,500.00
With Steel Blade Carrier	957000K	**14-071-443**	45,500.00
With Cold D With Low-Profile Blade Carrier	957010L	**14-071-404**	50,900.00
With Cold D With High-Profile Blade Carrier	957010H	**14-071-405**	50,900.00
With Cold D With Steel Blade Carrier	957010K	**14-071-444**	50,900.00
With Vacutome With Low-Profile Blade Carrier	957020L	**14-071-407**	47,700.00
With Vacutome With High-Profile Blade Carrier	957020H	**14-071-445**	47,700.00
With Vacutome With Steel Blade Carrier	957020K	**14-071-446**	47,700.00
With Cold D and Vacutome With Low-Profile Blade Carrier	957030L	**14-071-410**	53,000.00
With Cold D and Vacutome With High-Profile Blade Carrier	957030H	**14-071-411**	53,000.00
With Cold D and Vacutome With Steel Blade Carrier	957030K	**14-071-447**	53,000.00

INCLUDES:
Low-profile blade holder, high-profile blade holder or 16cm steel knife carrier

REQUIRES:
Low- or High-profile blade holder or 16cm steel knife carrier must be designated at time of ordering.

WARRANTY: One-year warranty

CERTIFICATIONS: Certificate of Hygiene, CE Marked

CryoStar NX70 Cryostat

Specifications	
Dimensions	D x W x H (Adjustable Range): 39.4 x 29.7 x 32.3 to 44.0" (100 x 75.5 x 82 to 112cm)
Weight	440 lb. (200kg)
Specimen Temperature Control	-50° to +10°C (-58° to +50°F) at +20°C room temp. (decrease 0.7°C/1°C room temp. increase)
Knife Temperature Control	-35° to -5°C (-31° to +23°F) at 20°C room temp. (decrease 0.5°C/1°C room temp. increase)
Peltier Cooling	Max. -60°C (-76°F) at -35°C knife temp.
Defrosting Options	Programmed / Immediate
Section Thickness Range	0.5 to 500µm
Fine Section Thickness Range	0.5 to 100µm
Fine Section Thickness Resolution	0.5 to 5µm in 0.5µm steps 5 to 10µm in 1µm steps 10 to 20µm in 2µm steps 20 to 50µm in 5µm steps 50 to 100µm in 10µm steps
Trimming Thickness Range	5 to 500µm
Trimming Thickness Resolution	5 to 30µm in 5µm steps 30 to 100µm in 10µm steps 100 to 200µm in 20µm steps 200 to 500µm in 50µm steps
Specimen Retraction (Return Travel)	20µm
Vertical Specimen Stroke	64mm
Horizontal Specimen Movement	48mm
Specimen Approach Manual	3mm/sec. max. (variable speed by joystick control)
Chuck Size	30, 40mm (additional special sizes are available)
Chuck Colors	Green/Red/Blue/Yellow
Specimen Orientation	x- and y-axes universal 7° with zero positioning; z-axis up to 360°
Coarse Feed	Motorized (on/off)
Cutting Drive	Manual and motorized, electronically controlled
Cutting Window	Manually adjusted to specimen size
Operating Modes	Interval, single, multi- and continuous-stroke
Cutting Speed	0 to 256mm/sec. (0 to 120 1/min.)
Clearance Angle Adjustment	Disposable blade carrier 8 to 16°

KINEMATICA AG
Dispersing and Mixing Technology

Before You Buy **Homogenizers**

Here is a little checklist of what you should consider before you buy:

What is the sample to be processed? Liquid-liquid, solid-liquid, gas-liquid? Solid-Solid is not possible using Rotor/Stator high shear systems.

What is the total volume to be processed and the ratio of the various components? Really important is to get sufficient turbulences inside the product vessel for a good homogenization effect, the right generator can make a big difference both in processing time and final result.

Handheld or tabletop? Consider how many samples are to be processed on a daily basis, what is your workflow, do you need both hands free, etc. It isn't recommended to use handheld homogenizers beyond a working volume of 500mL.

What is the characteristic of the product? For example, viscosity, abrasive, etc.? Rotor/Stator system can handle low viscosities up to higher viscosities depending of the motor power. Rotor/Stator systems usually lose all effect once products become paste like. If you work with abrasive materials a number of different methods can prolong the life time of your generator.

What is the best sample prep vessel/ tube/container? Immersion depth is important, work with either square or clover leaf shaped vessels to prevent vortexing. For small volumes of < 10mL use round bottom tubes versus conical tubes.

If you work with any solids for example tissues, corn, powders, etc, the diameter of the stator should be slightly bigger than the largest sample part for an efficient intake and quick processing.

Most homogenizing is done within less than a minute, when it takes much longer than that consider a bigger system.

Important Terms to Know

Kinematica POLYTRON™ homogenizers feature:

- Superior workmanship
- Built with the user in mind
- Quick coupling with all drive units
- Largest selection of generators tomatch your specific application
- All generators made from superior stainless steel or high performance plastics

The rotor/stator method always consists of two co-axial interlocking rows of teeth. Through rotation of the rotor at very high rpm settings, an under-pressure is created. This sucks the product into the rotor/stator area, where it is then centrifugally accelerated and enters the gap between the rotor and stator where the product is tangentially and radially accelerated and slowed down, thus creating high frequency shear forces and turbulences, which are mainly responsible for the particle/droplet size reduction and product homognizing.

POLYTRON homogenizer	Features	Working volume	Available generators *	Application examples
PT 1200 E	H*	0,1 to 250 ml	7	Emulsions (o/w, w/o,((o/w)/w), i.e. lotions, creams
PT 1300 D	H, D*	0,1 to 250 ml	7	Dispersing of plant, human or animal tissues
PT 2500 E	T, D*	0,1 to 4000 ml	16	Dissolving of solids to form suspensions, i.e. pigments
PT 10-35 GT	T,D*	0,1 to 6000 ml	20	Dispersing of food products
PT 3100 D	AHS*	0,1 to 6000 ml	30	Extraction of active substances from plant and animal tissues
PT 6100 D	AHS*	0,1 to 10000 ml	45	Dispersion of APIs in pharmaceutical preparations, excellent for quick QA and QC

**H=Handheld, D=Digital, AHS=Advanced Homogenizing System, generators sold separately, contact us for best match*

Homogenizers

Handheld

Fisher Scientific™ Laboratory Homogenizer Model 125

Low noise equipment with four generators; Easy Care design with different diameters for various applications

- Easy operation with on/off switch and speed control at fingertips
- Intelligent drive control and regulation for long equipment life
- Quick and easy generator switch
- Lightweight — less than 1 pound in hand
- Available with height-adjustable stand
- Safety standard: IEC/EN 61010-2-51
- Protection class according to DIN: IP 20
- Available generators: 5, 7, 12mm; 0 to 25,000rpm

08-451-660

APPLICATIONS:

- Production of dispersions and emulsions
- Dispersion of plant, human or animal tissues, resins and pigments
- Dissolving solids and production of suspensions
- Dispersion of APIs in pharmaceutical preparations
- Formulation of lotions, creams and food products
- Production of oil/water emulsions
- For extraction of active substances, QA and QC of certain products

COMPLIANCE:
EMC standards: IEC/EN 61000-6-2 / EN 61000-6-3

Specifications	
Model	125
Processing volume	0.1 up to 300mL
Tip speed	Up to 14m/s max.
Noise Level	≤65 dB(A) at 20,000rpm ≤76 dB(A) at 25,000rpm
Operating temperature	0° to 40°C
Relative humidity (max.)	80%
Drive power	100w
Dimensions (L × W × H)	220 × 44 × 55mm

Electrical Requirements	Cat. No.	Each
115V 50/60Hz 100w	**08-451-660**	1098.00

Fisher Scientific™ Laboratory Homogenizer Model 500

Efficient equipment with six generators (sold separately) available in Easy Care design with different diameters for various applications

- With integrated electronic speed regulation and stabilization
- Potentiometer allows for easy setting of desired speed
- Has automatic soft start and integrated thermal overload fuse which protect motor and ensure longevity
- Available with user-friendly coupling that allows easy exchange of generators
- Available generators: 5, 7, 12, 20, 25mm; 11,000 to 30000rpm
- Safety standard: IEC/EN 61010-2-51
- Protection class according to DIN: IP 20

08-451-666

APPLICATIONS:

- Production of dispersions and emulsions
- Dispersion of plant, human or animal tissues, resins and pigments
- Dissolving solids and production of suspensions
- Dispersion of APIs in pharmaceutical preparations
- Formulation of lotions, creams and food products
- Production of oil/water emulsions
- For extraction of active substances, QA and QC of certain products

COMPLIANCE:
EMC standards: IEC/EN 61000-6-2 / EN 61000-6-3

Specifications	
Model	500
Processing volume	0.1 up to 4000mL
Tip speed	Up to 30m/s max.
Noise Level	≤75 dB(A) at 25,000rpm ≤85 dB(A) at 30,000rpm
Drive power	500w
Relative Humidity (max.)	80%
Operating Temperature	0° to 40°C
Dimensions (L × W × H)	250 × 65 × 60mm

Electrical Requirements	Cat. No.	Each
115V 50/60Hz 500w	**08-451-666**	1425.00

ON THE WEB...

Fisher Scientific also offers a 125 package that includes Fisher Scientific homogenizer model 125 (115V), stand, 5, 7 and 10mm SS generators, one box of disposable generators (7mm, 25) under catalog number **08-451-662**, and a PCR kit that includes Fisher Scientific homogenizer model 125 (115V), four boxes of disposable generators (7mm, 25) under catalog number **08-451-664**

Visit www.fishersci.com and search for Homogenizers

Fisher Scientific™ Laboratory Homogenizer, Model 1000

High-power equipment with eight generators (sold separately) available in Easy Care design with different diameters for various applications

- With integrated electronic speed regulation and stabilization
- Potentiometer allows for easy setting of desired speed
- Has automatic soft start and integrated thermal overload fuse which protect motor and ensure longevity
- Available with user-friendly coupling that allows easy exchange of generators
- Available generators: 5, 7, 12, 20, 25, 30, 36mm; 3500 to 30,000rpm
- Safety standard: IEC/EN 61010-2-51
- Protection class according to DIN: IP 20

08451670

APPLICATIONS:

- Production of dispersions and emulsions
- Dispersion of plant, human or animal tissues, resins and pigments
- Dissolving solids and production of suspensions
- Dispersion of APIs in pharmaceutical preparations
- Formulation of lotions, creams and food products
- Production of oil /water emulsions
- For extraction of active substances, QA and QC of certain products

COMPLIANCE:
EMC standards: IEC/EN 61000-6-2 / EN 61000-6-3

Specifications	
Model	1000
Processing volume	0.1 up to 10000mL
Tip speed	Up to 35m/s max.
Noise Level	≤75 dB(A) at 25,000rpm ≤85 dB(A) at 30,000rpm
Drive power	1000w
Relative Humidity (max.)	80%
Operating Temperature	0° to 40°C
Dimensions (L × W × H)	260 × 75 × 70mm

Electrical Requirements	Cat. No.	Each
115V 50/60Hz 1000w	**08-451-670**	1585.00

ON THE WEB...

Fisher Scientific also offers the Homogenizer packages with models 500 and 1000 that includes the unit and stand. Find the 500 package under catalog number **08-451-668** and 1000 package under catalog number **08-451-672**

Visit www.fishersci.com and search for Homogenizers

ACCESSORIES

Fisher Scientific™ Base Stands For Homogenizer Models

For Fisher Scientific homogenizer models 125, 500 and 1000

- Type: FST-ST 125 and FST-ST 500/1000
- FST-ST 500/1000 is vessel holder

Description	Cat. No.	Each
For homogenizer 125 model only	**08-451-674**	450.00
For homogenizer 500 and 1000 models	**08-451-675**	350.00

Fisher Scientific™ Generators For Homogenizer Model 125

Available with high performance sleeve bearings made from Valflon™

- Made with highest grade stainless steel 316L
- Easily used during sample processing and cleaning
- Can be fully autoclaved

Size	Working Volume based on water viscosity	Cat. No.	Each
Dim. (Rotor/Stator/Shaft): 3.5/5/86mm	0.1 to 5mL	**08-451-676**	825.00
Dim. (Rotor/Stator/Shaft): 5/7/106mm	0.3 to 10mL	**08-451-677**	825.00

Fisher Scientific™ Disposable Generators For Homogenizer Model 125

For processing of multiple samples per day (more than 50)

- Needs an adaptor
- For prevention of cross contamination

Packaging	Cat. No.	Each
25/Pk.	**08-451-678**	350.00
50/Pk.	**08-451-679**	657.50

Fisher Scientific™ Generator For Homogenizer Model 125 and 500

Available with high performance sleeve bearings made from Valflon™

- Made with highest grade stainless steel 316L
- Easily used during sample processing and cleaning
- Can be fully autoclaved

Size	Working Volume based on water viscosity	Cat. No.	Each
Dim. (Rotor/Stator/Shaft): 8/10/160mm	5 to 250mL	**08-451-680**	1000.00

DID YOU KNOW...

Use a sterilizer to safely clean your reusable stainless steel generators. For a selection of models please see the Sterilizer section.

ACCESSORIES

Fisher Scientific™ Generator For Homogenizer Model 500 and 1000

Available with high performance sleeve bearings made from Valflon™

- Made with highest grade stainless steel 316L
- Easily used during sample processing and cleaning
- Can be fully autoclaved

APPLICATIONS: Dispersing of plant, human or animal tissues, resins and pigments, dissolving and extraction of solids, for producing suspensions and emulsions

Size	Working Volume based on water viscosity	Cat. No.	Each
Dim. (Rotor/Stator/Shaft): 15/20/195mm	50 to 2000mL	**08-451-681**	1175.00

Fisher Scientific™ Generators For Homogenizer Model 1000

Available with high performance sleeve bearings made from Valflon™

- Made with highest grade stainless steel 316L
- Easily used during sample processing and cleaning
- Can be fully autoclaved

APPLICATIONS: Dispersing and mixing of various components to create finest homogenates, emulsions, suspensions, accelerate reactions, etc.

Size	Working Volume based on water viscosity	Cat. No.	Each
Dim. (Rotor/Stator/Shaft): 23/30/200mm	300 to 7000mL	**08-451-682**	1500.00
Dim. (Rotor/Stator/Shaft): 28/35/200mm	500 to 10,000mL	**08-451-683**	1500.00

Kinematica™ Polytron™ Homogenizers

Versatile units combine quality, convenience and high performance for rapid, reproducible sample processing and consistent sample-to-sample uniformity

- Variable speed control
- Accept wide range of stainless-steel Polytron generators (order separately)

Handheld Models

- Lightweight for comfortable processing of sample volumes from 0.1 to 2500mL
- Powerful 100w motors achieve speeds up to 30,000rpm, based on model
- Model PT 1200E features fingertip control
- Model PT 1300D offers digital display and control and has a safety transformer that isolates handheld unit from high line voltage (can be turned off when not in use)

Benchtop Models

- For heavy-duty use
- High-speed, high-performance motors handle wide range of sample volumes (capabilities vary by model)
- Stand included
- Model PT 3100D delivers maximum speed of 30,000rpm for volumes up to 10L (capacity based on model)
- Feature LED display and digital speed control (to 28,000rpm, ±100rpm) that maintains set speed regardless of sample changes and have built-in noise reduction for greater operator comfort (72dB at maximum speed)
- Soft-start motor prevents splashing and sample loss
- Quick-connect: change generator with one hand
- Economical Model PT 10/35 GT handles volumes to 3L

APPLICATIONS:
Pulverizing plant and animal tissues, grains and seeds; soil extractions; DNA/RNA extractions, Karl Fischer sample prep, toxicology and food science

ORDERING INFORMATION:
Model PT 1200E is available as homogenizer unit only or in System Bundle with homogenizer, 3 stainless-steel generators (5, 7 and 12mm) and one box of 7mm disposable generators

INCLUDES: Support stand (benchtop models only)

- PT 1200E System Bundle includes PT 1200E homogenizer, three stainless-steel generators (5, 7 and 12mm) and one box of 7mm disposable generators
- PT 10/35 GT Bundle (13-874-617) includes PT 10/35 GT homogenizer, stand and vessel holder

REQUIRES:
Generators (sold separately; see Polytron Accessories)

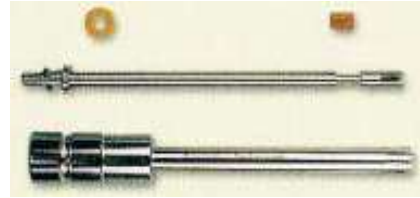
13-874-615

Model	Sample Volume	Max. Speed	Motor	Speed Control	Display	Accepts Generator Sizes	Electrical Requirements	Mfr. No.	Cat. No.	Each
Handheld Homogenizer										
PT 1200E	0.1–250mL	25,000rpm	100w	Fingertip	—	5–12mm	115V 60Hz	11010026	**05-400-261**	1634.00
PT 1300D	0.1–100mL	30,000rpm	100w	Digital	LED	5–12mm	110V 60Hz	11010032	**08-451-71**	3340.00
PT 1200E System Bundle	0.1–250mL	25,000rpm	100w	Fingertip	—	5–12mm	115V 60Hz	11090044	**04-987-310**	6746.80
Benchtop Homogenizer										
PT 3100D with stand	0.1–4000mL	30,000rpm	1200w	Digital	LED	5–36mm	110V 60Hz	11090093	**08-451-732**	6830.00
PT 10/35 GT	0.1–4000mL	30,000rpm	1200w	Digital	LED	5–36mm	110V 60Hz	11010103	**13-874-615**	3240.00
PT 10/35 GT	0.1–4000mL	30,000rpm	500w	Digital	LED	5–12mm	100-120V	11090072	**13-874-617**	4570.00
Adapter	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11035001	**13-874-619**	674.68

Kinematica™ Polytron™ Generators

PT 3100 and PT 10/35 GT Generators

For Benchtop rotor/stator homogenizers



Polytron Generators

Ideal when cross-contamination is a concern and cleaning is necessary.

- One-piece Type 316L stainless-steel
- Stronger, thicker-walled stator tube that extends generator life and prevents deformation
- Controlled tolerances ensure a small and uniform rotor-stator gap for maximum shear force and reproducible particle yield
- "Quick-connect" generators connect easily for quick changes
- Saw teeth to facilitate processing and foam-reducing features to reduce air intake
- EasyCare™ generators disassemble for cleaning, maintenance and sterilization
- Generators with knives are used for processing samples that require precutting and are larger than generator diameter

Stator Diameter	Volume Range	Description	Quick-connect	EasyCare	Other Features	Mfr. No.	Cat. No.	Each
For PT 10/35 Homogenizer								
10mm	2–250mL	Standard	N	Y	Shearing	11030054	**0845132**	2130.00
20mm	10–2,000mL	Standard	Y	Y	Shearing	11030083	**0845134**	2353.30
For PT3100, PT3100D, PT10135GT, and PT6100 Homogenizers								
7.5mm	0.3–10mL	Standard, long shaft slots, 1 rotating and 1 stationary ring	Y	Y	Maximum aeration/ turbulence	11030025	**0845137**	1807.00
20mm	20–2,000mL	Standard, long shaft slots, 1 rotating and 1 stationary ring	Y	Y	Maximum aeration/ turbulence	11030074	**0845142**	1981.00

Sonic

Foss™ Tecator™ 2094 Homogenizer

- For rapid maceration and homogenization of high-moisture, high-fat and fibrous samples
- Ideal for size reduction of chemical products and forage and dry food; homogenization of meat, fish, fruit, vegetables and prepared foods; and chemical and pharmaceutical formulations
- Blends frozen food samples quickly for more accurate analyses of unstable constituents such as vitamins
- Accommodate samples from 100g to 2.5kg
- Complete homogenization achieved in 20 to 60 seconds
- 3.5L bowl capacity (not to exceed 1.5L liquid)
- Stainless-steel bowls and knives resist corrosion
- Angled rotor knives provide powerful cutting action at 1500rpm; produce vertical flow for rapid, thorough and reproducible mixing
- Magnetic safety switch prevents operation unless transparent cover is locked in place

TC2096-002 and TC2094-002 Homogenizers

ORDERING INFORMATION:
Model 2094 dimensions: $9^{13}/_{16}$L × $16^{1}/_{8}$W × $11^{13}/_{16}$H" (25 × 41 × 30cm); weight: 33 lb. (15kg).

INCLUDES:
Include bowl, multipurpose cutter with microteeth blades, transparent lid and user's manual.

Model	Bowl Capacity	Cat. No.	Each
2094	3.5L	**TC2094-002**	3564.85

Fisher Scientific™ Model 50 Sonic Dismembrator

Economical, small volume cell disruptor

Compact, portable and extremely simple to operate. Weighing less than 4 lb., this model is the smallest unit on the market and is highly effective for cell disruption, sample preparation and many other small volume applications.

- Processes 0.2 to 50mL
- 50 watts
- Continuous or remote operation (footswitch optional)
- Lightweight converter for handheld operation

Fisher Scientific Model 50 Sonic Dismembrator

APPLICATIONS:
Basic cell disruption

INCLUDES: Generator, converter, cables, wrench set

WARRANTY: Two years

Specifications	
Dimensions (generator)	8 × 8 x 5"
Power Rating	50W
Operating Frequency	20kHz

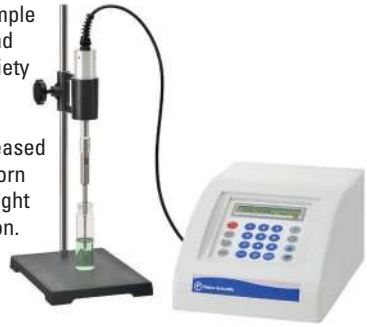
Electrical Requirements	Cat. No.	Each
Sonic Dismembrator System with 1/8 in. Probe		
117V, 50/60Hz	**FB50110**	2260.00
230V, 50/60Hz	**FB50220**	2270.00

Fisher Scientific™ Model 120 Sonic Dismembrator

Programmable system for effective cell lysis and sample preparation delivering consistent and reproducible results

This model is ideal for small sample sizes and offers both manual and programmable operation. A variety of accessories are available including probes for individual samples, eight tip horn for increased sample throughput and a cup horn for indirect sonication. Lightweight converter for handheld operation.

- Processes 0.2 to 50mL
- Programmable from 1 second to 10 hours
- Overload protection
- Pulse mode (1 second to 59 seconds)



Fisher Scientific Model 120 Sonic Dismembrator

APPLICATIONS: Cell disruption, protein extraction, DNA shearing/ChIP assay

INCLUDES: Generator, converter, cables, wrench set

WARRANTY: Two years

Specifications	
Dimensions	8W × 13.5L × 6"H
Power Requirements	120W
Operating Frequency	20kHz

Electrical Requirements	Cat. No.	Price
Sonic Dismembrator System with 1/8 in. Probe		
117V, 50/60Hz	**FB120110**	3410.00
230V, 50/60Hz	**FB120220**	3410.00

Fisher Scientific™ Model 505 Sonic Dismembrator

High power, programmable system ideal for nanotechnology, cell disruption and homogenization applications

Model 505 offers the same programmable features as Model 120 but delivers substantially more power. This model can process both small and large sample volumes. A variety of accessories are available including probes for individual samples and a cup horn for indirect sonication.

- Processes 0.5 to 500mL
- 500 watts
- Programmable from 1 second to 10 hours
- Pulse mode (1 second to 59 seconds)
- Energy display (watts and Joules)

Fisher Scientific Model 505 Sonic Dismembrator

APPLICATIONS: Nanoparticle dispersion, mixing and homogenization

INCLUDES: Generator, converter, cables, wrench set

WARRANTY: Two years

Specifications	
Dimensions	8 × 15 × 9"
Power Requirements	500W
Operating Frequency	20kHz

Electrical Requirements	Cat. No.	Each
Sonic Dismembrator System with 1/2 in. Probe		
117V, 50/60Hz	**FB505110**	4660.00
230V, 50/60Hz	**FB505220**	4660.00

Fisher Scientific™ Model 705 Sonic Dismembrator

Ultrahigh power with advanced programming for DNA shearing/ChIP and all-liquid processing applications

Model 705 is a full-featured, programmable ultrasonic processor with an easy to use touchscreen control and overload protection. The additional power and full range of accessories accommodate the widest range of sample volumes and applications. 96 tip horn and cup horn accessories offer time saving, high throughput solutions to repetitive, individual sample processing.

- Processes 0.2 to 1000mL
- 700 watts
- Programmable from 1 sec. to 99 hr.
- Save up to 10 different programs
- Pulse mode (1 second to 24 hours)
- Temperature monitoring (requires optional temperature probe)

Fisher Scientific Model 705 Sonic Dismembrator

APPLICATIONS: Cell disruption, homogenization, ChIP/DNA shearing, nanoparticle dispersion, protein extraction, sonochemistry, soil extraction, mixing

INCLUDES: Generator, converter, cables, wrench set

WARRANTY: Two years

Specifications	
Dimensions	8 × 15 × 9"
Power Requirements	700W
Operating Frequency	20kHz

Electrical Requirements	Cat. No.	Each
Sonic Dismembrator System with 1/2 in. Probe		
117V, 50/60Hz	**FB705110**	6040.00
230V, 50/60Hz	**FB705220**	6040.00

Specialty

Fisher Scientific™ PowerGen™ Cryogenic Homogenizer

Increases sample throughput and helps preserve sample integrity

02-215-500

Combines the ease and speed of a handheld homogenizer and a liquid nitrogen-cooled sample to homogenize your sample faster and more efficiently.

- Cordless, compact and versatile
- Unit's speed-decelerate feature prevents sample splattering and generation of airborne particles
- Mortar and pestle are constructed of a durable porcelain/ zirconium composite
- Rugged pestle has a stainless-steel shaft with a hex bit for quick connection to the motor
- Mortar and pestles can be decontaminated between samples by autoclaving, dry heat, or by exposing to a commercial decontaminating solution
- Cryogenic cooler is valuable for chilling, processing and transporting samples

ORDERING INFORMATION: Accessories include tray with six mortars and pestles and replacement pestles (set of 6)

INCLUDES: Motor unit, tray with six mortars and pestles, cryogenic cooler with sample reservoir with mesh cover, absorbent material

Description	Electrical Requirements	Cat. No.	Each
Cryogenic Homogenizer	120V 60Hz	**02-215-500**	1121.00
Accessories			
Tray with 6 replacement mortar and pestles		**02-215-502**	616.00

Branson Sonifier™ Ultrasonic Cell Disruptor/Homogenizer

Precise process control and parameter measurement for a broad range of liquid processing applications

SEE MORE...

Click here to see which Branson Sonifier™ is best suited for your liquid processing needs.

Fisher Scientific™ PowerGen™ High-Throughput Homogenizer

Grinds multiple samples of seeds, bone and other tough tissues

02-215-503

This versatile homogenizer provides a cost-effective method for quick, safe batch processing without cross-contamination. Accessory vials and equipment enable more efficient throughput.

- Versatile; process a wide variety of samples from 20 to 500mg
- Accommodates deep well plates, racks of microfuge tubes, vial sets and even small bottles
- Unlike a traditional homogenizer, samples can be processed with or without liquid
- Eliminates cross contamination
- Uses vials and tubes filled with a steel bead
- Back-and-forth motion for thorough pulverizing
- Variable speed range from 0 to 1600rpm
- Capacity: One deepwell plate, 4 standard microplates, or one vial set up to 300g maximum
- Timer: 1 to 10 minutes

ORDERING INFORMATION:
Dimensions: 17.5L × 15W × 14.2"H (44.5 × 38.1 × 36.1cm). Shipping weight: 75 lb. (34.1kg). Accessory vials, bead remover and bead dispenser sold separately, see "Fisher Scientific PowerGen High-Throughput Homogenizer Accessories."

REQUIRES:
Vials (sold separately)

Electrical Requirements	Cat. No.	Each
120V 50/60Hz	**02-215-503**	7220.00

Qsonica Sonicator Q55

The new Q55 is a compact and cost-effective ultrasonic processor that will occupy less bench space than any unit on the market

- 55W generator
- Smallest unit available
- Thumb-switch or continuous operation
- Simple and effective operation

Specifications

- Power Rating: 55W
- Operating Frequency: 20kHz
- Voltage: 110V
- Dimensions: 8W × 7.5L × 5.75H"

INCLUDES:

- Generator
- Converter
- 0.125" probe
- Power cable
- Wrench set
- Converter cable

15-338-284

Description	Mfr. No.	Cat. No.	Each
With Probe			
110V, 55w	Q55	**15-338-284**	2040.00
Without Probe			
110V, 55w	Q55A	**15-338-407**	1883.00

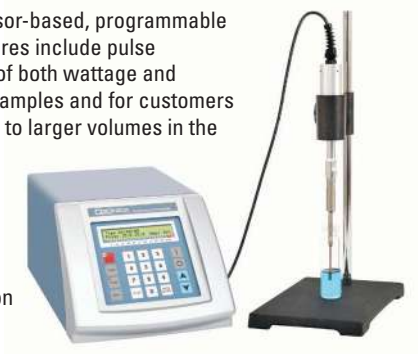
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Qsonica Sonicator Q125

The unit is effective for standard cell disruption, DNA/RNA shearing, homogenization and many other applications

The Q125 is a microprocessor-based, programmable ultrasonic processor. Features include pulse mode and a digital display of both wattage and joules. It is ideal for small samples and for customers that do not plan to scale up to larger volumes in the future. This model offers the same programming and display features as the Q-500 unit.



15-338-283

- 125W generator
- Programmable operation
- Pulse mode
- Digital amplitude
- Intensity control
- Elapsed time indicator
- Display of Wattage and Joules
- Overload protection
- Compact design

Specifications

- Power Rating: 125W
- Operating Frequency: 20kHz
- Voltage: 110V
- Programmable Timer: 10 hours
- Adjustable Pulse On/Off: 1 second to 1 minute
- Dimensions 8W × 13.75L × 5.5H"

INCLUDES:

- Generator
- Converter
- 0.125" probe
- Power cable
- Wrench set

COMPLIANCE:
RoHS Compliant

Description	Mfr. No.	Cat. No.	Each
With Probe			
110V, 125w	Q125	**15-338-283**	3090.00
Without Probe			
110V, 125w	Q125A	**15-338-410**	2941.68

Qsonica Sonicator Q500

Popular applications include nanoparticle dispersion, creating emulsions, cell lysis and homogenization

The Q500 is an ultrasonic processor featuring programmable operation and a digital display of operating parameters. Adjustable Pulse On and Off times can be programmed from 1 second to 1 minute. Total programming has a maximum setting of 10 hours. A wide variety of probes and accessories are available to handle virtually any application.

15-338-282

- 500W generator
- Programmable operation
- Pulse mode
- Digital amplitude
- Intensity control
- Elapsed time indicator
- Display of Wattage and Joules
- Overload protection

Specifications

- Power Rating: 500W
- Operating Frequency: 20kHz
- Voltage: 110V
- Programmable Timer: 10 hours
- Adjustable Pulse On/Off: 1 second to 1 minute
- Dimensions: 8W × 15.25L × 8.72H"

INCLUDES:

- Generator
- Converter
- 0.5" probe
- Power cable
- Wrench Set
- Converter cable

COMPLIANCE:
RoHS Compliant

Description	Mfr. No.	Cat. No.	Each
With Probe			
110V	Q500	**15-338-282**	4120.00
Without Probe			
110V	Q500A	**15-338-413**	3790.00

Qsonica Sonicator Q700

A state-of-the-art touchscreen interface offers intuitive control and provides a user-friendly experience

The most important feature of a Sonicator is reproducibility. Improved internal circuitry guarantees more efficient operation, sample-to-sample consistency and most importantly, a reliable end result. The Q700 is the only sonicator on the market that offers full amplitude control from 1-100%.

15-338-281

- 700W generator
- Touchscreen control
- Full amplitude control
- Programmability
- Pulse mode
- Run multiple programs in sequence
- Total energy output display
- Auto tuning
- Overload protection
- Temperature monitoring

Specifications

- Power Rating: 700W
- Operating Frequency: 20kHz
- Voltage: 110V
- Programmability: 10 memories plus sequencing
- Programmable Timer: 72 hours
- Adjustable Pulse On/Off: 1 second to 24 hours
- Dimensions: 8W × 12.25L × 8.75H"

INCLUDES:

- Generator
- Converter
- Converter cable
- 0.5" probe
- Power cable
- Wrench set
- Owner's manual

COMPLIANCE:
RoHS Compliant

Description	Mfr. No.	Cat. No.	Each
With Probe			
110V	Q700	**15-338-281**	5530.00
Without Probe			
110V	Q700A	**15-338-416**	5071.14

Before You Buy **Hotplate Stirrers**

Thermo SCIENTIFIC

Thermo Scientific RT2 Advanced Hotplate Stirrer

Experience precision with our low-profile digital display hotplate stirrer, equipped with PT100 sensor for precise temperature measurements for sensitive experimental procedures.

FEATURES

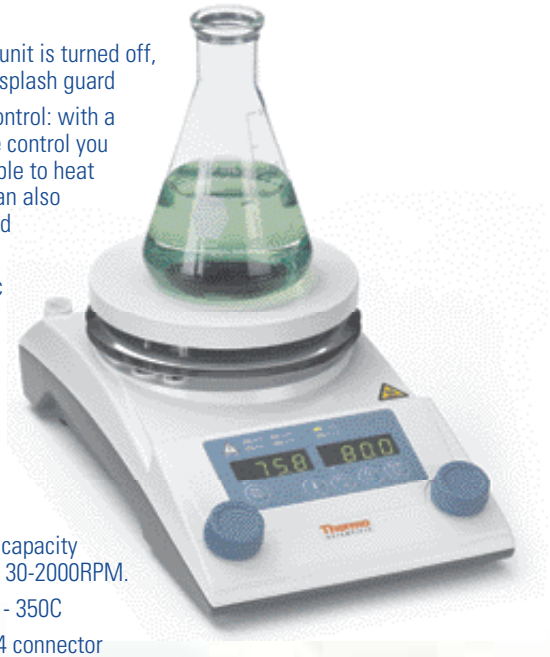
- Digital control
- Overheat prevention circuit turns off the heater if the top plate temperature reaches 450°C
- Three user-selectable temperature control modes: Optimal Mode, Fast Mode and Slow Mode
- Two-user selective timer, showing actual and set value simultaneously
- User configurable temperature limit setting
- Temperature probe (included) provides real-time media temperature detection
- Nonslip heating bath (optional)
- Transparent safety shield (optional)

Features To Look For

- Safety Features
- Type of Control
- Top Plate Material
- Stirring Capacity and Speed Range
- Temperature Range
- Real Time Sample temperature readout ability
- Timer

Why Choose a Thermo Scientific RT2 Advanced Hotplate Stirrer?

Key Safety features include:



- Hot Top warning even when the unit is turned off, overheat circuit cut off, optional splash guard
- The RT2 Advanced is all about control: with a Microprocessor PID Temperature control you can decide if you want your sample to heat up slowly, fast or optimal. You can also view and set precise actual speed and temperature.
- The RT2 Advanced has a ceramic coated aluminum top, which can't break like a ceramic top plus you get better temperature uniformity from the aluminum and added corrosion resistance from the ceramic coating.
- Reflective white surface aids sample visibility
- The RT2 Advanced has a stirring capacity of 20L (H_2O) and stirring range of 30-2000RPM.
- Temperature Range: Ambient +5 - 350C
- With the included PT 100, SN-8-4 connector sensor, you can get an exact digital read out of your temperature sample on the front display.

MODEL	MFR. NO.	CAT. NO.
RT2 Hotplate	88880002	**9069111**
RT2 Basic Hotplate Stirrer	88880004	**9069113**
RT2 Advanced Hotplate Stirrer	88880006	**9069115**

Hotplates

Fisher Scientific

Fisher Scientific™ Isotemp™ Basic Hotplates

Sleek, compact units offer dependability and value

Fit easily in hood or on benchtop. Easy and safe to use. Excellent for sample drying and general lab heating in environments between 4° to 40°C (39° to 104°F). Available with either a ceramic or aluminum heating plate surface.

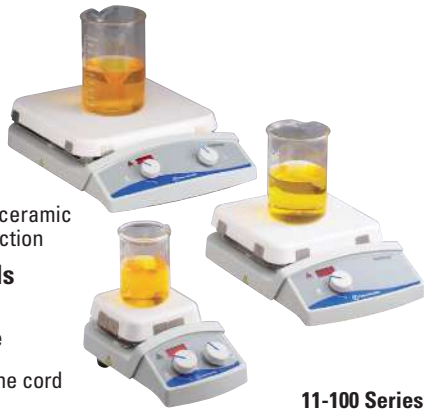
- Easy-to-set analog temperature control knob with graduated scale
- LED display
- Top plate and base design diverts liquids away from internal electronics
- Safety warning system with visual alert protects user from accidental burns
- Incorporated base mount holds support rods up to 13mm diameter — ideal when using thermometers or pH probes

Ceramic-top Models

- Three sizes available
- 4 × 4" and 7 × 7" models heat to 540°C (1004°F); 10 × 10" models heat to 400°C (752°F)
- Reflective white ceramic surface is acid- and alkali-resistant and easy to clean
- Nonheating frame surrounds the heated ceramic plate for added protection

Aluminum-top Models

- Heat to 380°C (716°F)
- 7 × 7" heating surface



11-100 Series

INCLUDES: Detachable line cord

WARRANTY: Three years

COMPLIANCE: IEC 1010

CERTIFICATIONS: 120V: CSA, CUS; 230V: CE, CSA, CUS

Heating Surface Area	Top Plate Material	Temperature Range	Electrical Requirements	Cat. No.	Each
4 × 4"	Ceramic	30° to 540°C (Ambient to 1004°F)	120V 60Hz	**11-100-16H**	291.50
7 × 7"	Ceramic	30° to 540°C (Ambient to 1004°F)	120V 60Hz	**11-100-49H**	276.50
7 × 7"	Aluminum	Ambient to 380°C (Ambient to 716°F)	120V 60Hz	**11-200-49H**	366.00
10 × 10"	Ceramic	30° to 400°C (Ambient to 752°F)	120V 60Hz	**11-100-100H**	457.00

Fisher Scientific™ Isotemp™ Basic Stirring Hotplates

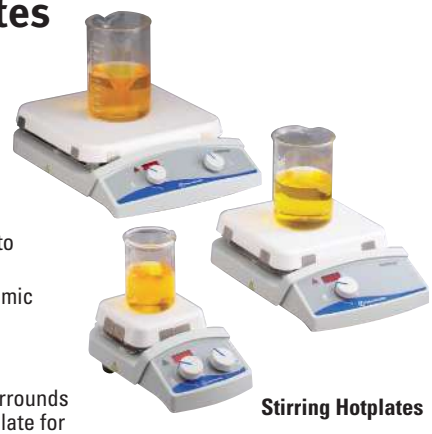
Sleek, compact units combine unbeatable performance, reliability and economy

Easy and safe to use. Excellent for general lab heating and stirring in environments between 4° to 40°C (39° to 104°F). Choose either a ceramic or aluminum heating plate surface.

- Fit virtually anywhere in lab
- Easy-to-set analog temperature control knob with graduated scale
- LED display
- Top plate and base design diverts liquids away from internal electronics
- Safety warning system with visual alert protects user from accidental burns
- Redundant temperature control systems for overtemperature protection
- Incorporated base mount holds support rods up to 13mm diameter — ideal when using thermometers or pH probes
- Variable analog stirring control to 1200rpm
- INSTANT-ON feature begins stirring at low 60rpm to prevent splashing
- Direct-drive motor/magnet system runs silently

Ceramic-top Models

- 4 × 4" model heats to 540°C (1004°F); 10 × 10" model heats to 400°C (752°F)
- Reflective white ceramic surface is acid- and alkali-resistant and easy to clean
- Nonheating frame surrounds the heated ceramic plate for added protection



Stirring Hotplates

INCLUDES: Detachable line cord, PTFE stir bar

WARRANTY: Three years

COMPLIANCE: IEC 1010

CERTIFICATIONS: 120V: CSA, CUS; 230V: CE, CSA, CUS

Heating Surface Area	Top Plate Material	Temperature Range	Stirring Range	Electrical Requirements	Cat. No.	Each
4 × 4"	Ceramic	30° to 540°C (Ambient to 1004°F)	60 to 1200rpm	120V 60Hz	**11-100-16SH**	447.00
7 × 7"	Ceramic	30° to 540°C (Ambient to 1004°F)	60 to 1200rpm	120V 60Hz	**11-100-49SH**	506.00
7 × 7"	Aluminum	Ambient to 380°C (Ambient to 716°F)	60 to 1200rpm	120V 60Hz	**11-200-49SH**	556.50
10 × 10"	Ceramic	30° to 400°C (Ambient to 1004°F)	60 to 1200rpm	120V 60Hz	**11-100-100SH**	626.50

Fisher Scientific™ Isotemp™ Digital Stirring Hotplates

Designed for general-purpose lab heating and stirring with precise temperature and speed control

Operating Features

- Compact design with ceramic or aluminum top plate
- LED displays actual and setpoint readings
- Temperature is adjustable in 1°C increments, 0.1°C for temperatures below 100°C with remote temperature probe
- User-programmable timer automatically shuts off unit — perfect for timed experiments
- "Favorites" feature allows users to store three commonly used settings
- Separate LED displays for temperature and speed (actual or setpoint)
- Direct-drive motor/magnet system runs silently
- Variable stirring control from 60 to 1200rpm

Safety Features

- Top plate and base are molded to divert liquids away from internal electronics
- Safety warning system protects users from accidental burns; red warning light alerts when heating surface exceeds 50°C and flashes when heat is shut off until surface is cool
- Incorporated base mount holds support rods up to 13mm diameter — ideal when using thermometers or pH probes
- INSTANT-ON feature begins stirring at low 60rpm to prevent splashing

Ceramic-top Models

- Heat to 540°C (1004°F)
- Reflective white ceramic surface is acid- and alkali-resistant and easy to clean
- Nonheating frame surrounds the heated ceramic plate for added protection

Aluminum-top Models

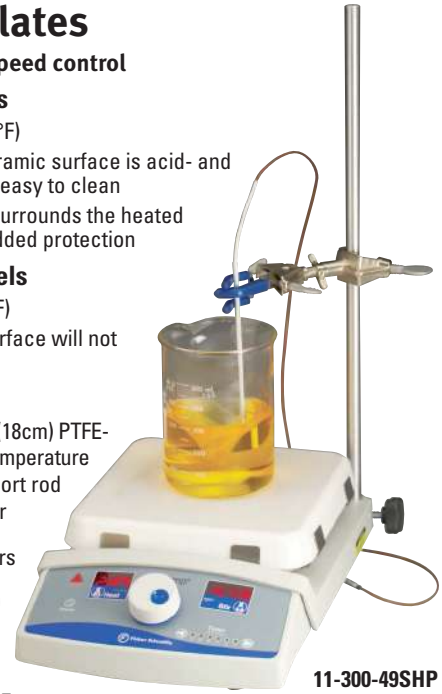
- Heat to 380°C (716°F)
- 49 sq. in. heating surface will not crack or chip

INCLUDES:
Detachable line cord, 6" (18cm) PTFE-coated stainless-steel temperature probe, 18"L (46cm) support rod and clamp, PTFE stir bar

WARRANTY: Three years

COMPLIANCE: IEC 1010

CERTIFICATIONS:
120V units: CSA, CUS;
230V units: CSA, CUS, CE



11-300-49SHP

Top Plate Size	Top Plate Material	Temperature Range	Stirring Range	Electrical Requirements	Cat. No.	Each
7 × 7"	Ceramic	30° to 540°C (86° to 1004°F)	60 to 1200rpm	120V 60Hz	**11-300-49SHP**	938.50
7 × 7"	Aluminum	30° to 380°C (86° to 716°F)	60 to 1200rpm	120V 60Hz	**11-400-49SHP**	1140.00

Fisher Scientific™ Basic Stirring Hotplates

Control knobs allow precise temperature and speed control

11-520-49SH

- Solid ceramic top plate cleans easily, resists acids and alkalis
- Top plate design reduces chance of breakage
- Spillaway design diverts spills away from internal components
- Integral ring-stand holder accommodates 0.5" (1.3cm) diameter support rod

WARRANTY: Three years

Top Plate Dimensions	Electrical Requirements	Maximum Operating Temperature	Cat. No.	Each
4 × 4" (11 × 11cm)	120V 60Hz	538°C (1000°F)	**11-520-16SH**	442.00
7 × 7" (18 × 18cm)	120V 60Hz	538°C (1000°F)	**11-520-49SH**	479.50

LOOKING FOR STIRRERS?

Non-heating magnetic stirrers are available in a wide selection of styles. You can find them in the **Stirrers** section. You can find a wide selection of glass vessels for heating and stirring in the **Beakers** and **Flasks** sections.

nlsu new lab start-up program

FROM EMPTY SHELVES TO A FULLY FUNCTIONING LAB

Let the Fisher Scientific New Lab Start-Up Program work for you as an effective, economical way to obtain special time- and money-saving offers on the supplies you need. **Visit www.fishersci.com/newlab** to apply today!

Thermo Scientific

Thermo Scientific™ Cimarec™ Digital Stirring Hotplates

Ideal for repetitive procedures demanding precision and safety

StirTrac™ technology optimizes stirring speeds and unique HOT TOP alert provides added protection.
Available in three sizes: 4 × 4, 7 × 7 and 10 × 10"

Digital Stirring Hotplate

Performance Features

- Microprocessor-controlled feedback technology maintains consistent, repeatable temperature settings from 5°C up to maximum
- Digital display and large control knob enable precise temperature control
- Flat top and high-wattage heating elements provide superior heat transfer and fast time-to-boil
- Various sizes offered to handle different sample volumes
- Rugged cast aluminum body is stable and durable
- StirTrac technology allows smooth low-speed stirring, consistent speed control and stronger magnetic coupling
- StirTrac braking brings stir bar to immediate stop for quick flash removal
- Integrated ring stand holder to accommodate 0.5" diameter (1.3cm) support rod

Safety Features

- Hot surface alert protects from accidental burns; light activates when heating surface is above 50°C (122°F)
- Unit displays HOT OFF until unit reaches 50°C (122°F) or below, even when heat control is turned off
- Cast-aluminum base diverts spills from internal electronics
- Low-profile design and stable, rugged base prevents tipping and spillage

Ceramic Top Models

- Clean easily and resist alkalis and acids
- Seamless, reflective white surface aids sample visibility
- Heat to higher temperatures than aluminum tops

Aluminum Top Models

- Rugged and chip-resistant for superior durability
- Allow uniform heat distribution across surface

INCLUDES:
Detachable line cord. All models supplied with a 0.38 dia. × 2"L (1 × 5.1cm) TFE-coated stir bar, except 4 × 4", which includes a 1" (2.54cm) stir bar.

WARRANTY: Three years

CERTIFICATIONS: cCSAus (all models), CE (220-240V models)

Specifications	
No. of Places	1
Stirring Range	60 to 1200rpm

Heating Surface Material	Temperature Range	Max. Volume	Electrical Requirements	Mfr. No.	Cat. No.	Each
Top Plate: 4.25 × 4.25" (10.8 × 10.8cm), Overall Dimensions: 4.25 × 4.25" (10.8 × 10.8cm)						
Ceramic	5° to 540°C (41° to 1004°F)	1L	120V 60Hz	SP131015Q	**11-675-909Q**	532.61
Ceramic	5° to 540°C (41° to 1004°F)	1L	220/240V 50/60Hz	SP131010-33Q	**09-047-123Q**	588.50
Top Plate: 7.25 × 7.25" (18.4 × 18.4cm), Overall Dimensions: 13 × 8.25 × 3.88" (33 × 21 × 10cm)						
Ceramic	5° to 540°C (41° to 1004°F)	4L	120V 50/60Hz	SP131325Q	**11-675-912Q**	589.45
Ceramic	5° to 540°C (41° to 1004°F)	4L	220/240V 50/60Hz	SP131320-33Q	**09-047-125Q**	673.50
Aluminum	5° to 300°C (41° to 572°F)	4L	120V 60Hz	SP142025Q	**11-400-005Q**	618.00
Aluminum	5° to 300°C (41° to 572°F)	4L	220/240V 50/60Hz	SP142020-33Q	**11-400-006Q**	578.88
Top Plate: 10.25 × 10.25" (26 × 26cm), Overall Dimensions: 16.25 × 11.38 × 4" (41 × 29 × 10cm)						
Ceramic	5° to 400°C (41° to 752°F)	6L	120V 60Hz	SP131635Q	**11-675-915Q**	704.80
Ceramic	5° to 400°C (41° to 752°F)	6L	220/240V 50/60Hz	SP131630-33Q	**09-047-127Q**	867.00

results delivering solutions

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Thermo Scientific™ Super-Nuova™ Single-Position Digital Stirring Hotplates

Offer superior performance, safety and precision for general heating and stirring applications

Ceramic- or aluminum-top units have 4-function memory — excellent for labs with multiple users. Low temperature adjustment is ideal for life science and biotechnology applications.

11-320-10Q

Operating Features

- Microprocessor control ensures accurate and stable setpoints for temperature (and stirring speed for stirring models only)
- Electronic feedback controls monitor either top plate surface or liquid temperature (when using external PTFE-coated probe, included) and adjust to setpoint
- Single control knob controls heat and speed (based on model); lock feature prevents accidental changes
- Separate digital displays for temperature and rpm
- Powerful motor and magnetic system prevents magnetic decoupling
- Temperature adjusts in 1° increments
- Four user-defined temperature/speed memory keys recall settings
- Calibration mode allows remote probe to be calibrated to external standards; probe can be programmed as a system (probe, control, display) at any user-selected temperature
- Can be used in 0 to 27°C, 80% relative humidity, noncondensing environment
- RS-232 port allows output of time count, temperature setpoint, top surface/remote probe temperature, stirring setpoint and actual speed

Safety Features

- Red HOT TOP warning light activates when heating surface is above 50°C (122°F); unit flashes HOT OFF until surface temperature falls to 50°C or below, even when heat control is turned off
- Adjustable overtemperature protection circuit limits top plate temperature
- Rugged low-profile cast aluminum body provides stability and durability
- Unit design protects internal components from accidental spills
- Walk-away timer shuts off heating, stirring or both after preset user-defined interval

Ceramic Top Models

- Clean easily and resist alkalis and acids
- Seamless, reflective white surface aids sample visibility
- Heat to higher temperatures than aluminum tops

Aluminum Top Models

- Rugged and chip-resistant for superior durability
- Allow uniform heat distribution across surface

INCLUDES:
Detachable line cord and plug, 6" Type K probe. Stirring models also include stir bar.

WARRANTY: Three years

CERTIFICATIONS: cCSAus (all models), CE (220-240V models)

Specifications	
No. of Places	1
Stirring Range	50 to 1200rpm

Top Plate Material	Temperature	Max. Container Volume	Electrical Requirements	Mfr. No.	Cat. No.	Each
Top Plate: 7.25 × 7.25" (18.4 × 18.4cm), Overall Dimensions: 13 × 8.2 × 3.8" (33 × 20.8 × 9.7cm)						
Ceramic	1° to 370°C (33.8° to 698°F)	4L	120V/60Hz	SP131825Q	**11-675-917Q**	1074.00
Ceramic	1° to 370°C (33.8° to 698°F)	4L	220/240V 50 - 60Hz	SP131820-33Q	**09-047-118Q**	1065.00
Aluminum	1° to 300°C (33.8° to 572°F)	4L	120V/60Hz	SP133525Q	**11-675-926Q**	1219.00
Aluminum	1° to 300°C (33.8° to 572°F)	4L	220/240V 50 - 60Hz	SP133520-33Q	**11-320-13Q**	1231.00
Top Plate: 10.25 × 10.25" (26 × 26cm), Overall Dimensions: 16.2 × 11.3 × 4" (41.1 × 28.7 × 10.2cm)						
Ceramic	1° to 370°C (33.8° to 698°F)	6L	120V/60Hz	SP133835Q	**09-050-287Q**	1492.00
Ceramic	1° to 370°C (33.8° to 698°F)	6L	220/240V 50 - 60Hz	SP133830-33Q	**11-320-10Q**	1469.00

Thermo Scientific™ Explosion-Proof SAFE-T HP6 Hotplates

Deliver maximum safety for Class I/Group D hazardous atmospheres

- Thermostatic safety is set at 243°C (469.4°F) for added protection
- Maintains temperature within ±5.5°C (9.9°F)
- Sealed aluminum housing contains and protects controls
- Cast aluminum top plate maximizes heat transfer and uniformity (±6.5°C or 11.7°F)
- Corrosion-resistant steel case for easy cleaning and maintenance
- Accommodates up to 25 lb. (11.3kg) loads and metal vessels/containers
- Time to boil: 600mL water in 60 minutes

11-496-3

CERTIFICATIONS:
UL/cUL listed; Explosion-proof for Class I, D atmospheres

Specifications	
Operating Temperature	38° to 22°C (100° to 428°F)
Heating Surface Area	15.6 × 15.6cm (6.13 x 6.13")
Power Consumption	600w
Electrical Requirements	120V 50/60Hz
Amps	5A

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
SAFE-T HP6 Hotplate	120V 50/60Hz	HP11515B	**11-496-3**	1452.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Explosion-Proof SAFE-T SHP9 Stirring Hotplate

Designed for sparkless, hard-wired connection

11-506

UL listed for Class I, Groups C and D hazardous atmospheres in which flammable gases or solvent vapors can produce explosive or ignitable mixtures.

- Optional dial thermometer, with 0° to 300°C range, fits directly into top plate and measures surface temperature
- Large, aluminum top plate surface measures 9.1 × 9.1 in. (23.2 × 23.2cm) and provides efficient heat transfer
- Precise electronic heat control maintains temperature stability within ±2°C (±4°F)
- Electronic temperature controls range from 38° to 218°C (100° to 428°F)
- Stir solutions with a viscosity of 1200cp at 400rpm (at 21.5°C)
- Sturdy construction allows maximum load capacity, 25 lb. (11.3kg) on top plate
- Stainless-steel case is easily cleaned and maintained, and accommodates a metal vessel
- Time to boil: 600mL water in 60 minutes

WARRANTY: Three years

CERTIFICATIONS: UL/cUL listed

WARNING

Professional installation required

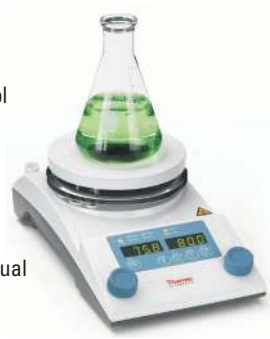
Specifications	
Heating Surface	9.1 × 9.1 in. (23.2 × 23.2cm)
Temperature Range	38° to 220°C (100° to 428°F)
Stirring Speed Range	60 to 1200rpm
Overall Dimensions	12.8 × 10 × 8.1 in. (32.4 × 25.4 × 20.8cm)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 1070w, 8.9A	SP87325Q	**11-506**	3750.00

Thermo Scientific™ RT2 Hotplate

Safe, accurate, low-profile digital display hotplate

Equipped with hot top warning and built-in temperature shut-off to provide accurate heating of samples and safety to the laboratory. In addition to a hot top warning indicator, an overheat prevention circuit turns off the heater if the top plate temperature reaches 450°C.



- Digital control
- Microprocessor PID temperature control
- Three user-selectable temperature control modes:
- Optimal Mode
- Fast Mode
- Slow Mode
- Two-user selective timer to display actual and set value simultaneously
- Nonslip heating bath (optional)
- Transparent safety shield (optional)

90-691-10, -11

Specifications	
Temperature Range	50° to 350°C (122° to 662°F)
Heating Control	Feedback Control with PID
Display	LED digital (0.1C resolution)
Maximum Load (vessel)	55.1 lb. (25kg)
Body Material	Cast aluminum
Top Plate Dimensions	5.5 in. (140mm)
Top Plate Material	Ceramic coated aluminum
Overall L × W × H	11.42 × 6.34 × 3.94 in. (290 × 161 × 100mm)
Heating Power	600W
Certifications	CE, cCSAus
Warranty	2 Years

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
230V, 50/60Hz	Cord set w/various plugs	88880001	**90-691-10**	610.00
120V, 60Hz	US plug	88880002	**90-691-11**	600.00

Thermo Scientific™ RT2 Basic Hotplate Stirrer

Low-profile analog stirrer for routine applications

Each unit is equipped with hot top warning and built-in temperature shut-off. Overheat prevention circuit turns off the heater if the top plate temperature reaches 450°C.

90-691-12, -13

- Hot top warning indicator
- Adjustable temperature limit: 50° to 350°C
- Nonslip heating bath (optional)
- Transparent safety shield (optional)
- Supporting rod (optional) for flexibility in configuring test equipment and accessories

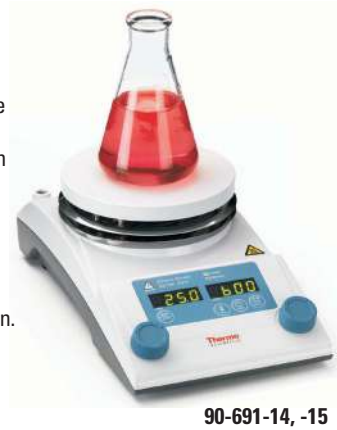
Specifications	
Temperature Range	50° to 350°C , 122° to 662°F
Heating Control	Scale
Stirring Speed Range	50 to 2000rpm
Maximum Load (vessel)	55.1 lb. (25kg)
Stirring Capacity (H_2O)	20L
Body Material	Cast aluminum
Top Plate Material	Ceramic coated aluminum
Top Plate Diameter	5.5 in. (140mm)
Overall L × W × H	11.42 × 6.34 × 3.94 in. (290 × 161 × 100mm)
Heating Power	600W
Certifications	CE, cCSAus
Warranty Period	2 Years

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
230V, 50/60Hz	Cord set w/various plugs	88880003	**90-691-12**	660.00
120V, 60Hz	US plug	88880004	**90-691-13**	650.00

Thermo Scientific™ RT2 Advanced Hotplate Stirrer

Low-profile digital display hotplate stirrer with PT100 sensor

Thermo Scientific™ RT2 Advanced Hotplate Stirrer is a low-profile digital display stirrer equipped with PT100 sensor for precise temperature measurements for sensitive experimental procedures. In addition to a hot top warning indicator, an overheat prevention circuit turns off the heater if the top plate temperature reaches 450°C. Temperature probe provides real-time media temperature detection.



90-691-14, -15

- Digital control
- Microprocessor PID temperature control
- Three user-selectable temperature control modes:
- Optimal Mode
- Fast Mode
- Slow Mode
- Two-user selective timer to display actual and set value simultaneously
- User-configurable temperature limit setting
- Nonslip heating bath (optional)
- Transparent safety shield (optional)

Specifications	
Temperature Range	50° to 350°C , 122° to 662°F
Heating Control	Feedback Control with PID / Scale
Stirring Speed Range	30 to 2000rpm
Maximum Load (vessel)	55.1 lb. (25kg)
Stirring Capacity (H_2O)	20L
Body Material	Aluminum
Top Plate Material	Ceramic coated aluminum
Top Plate Diameter	5.5 in. (140mm)
Overall L × W × H	11.42 × 6.34 × 3.94 in. (290 × 161 × 100mm)
Heating Power	600W
Certifications	CE, cCSAus
Warranty Period	2 Years

Electrical Requirements	Plug Type	Mfr. No.	Cat. No.	Each
230V, 50/60Hz	Cord set with various plugs	88880005	**90-691-14**	860.00
120V, 60Hz	US plug	88880006	**90-691-15**	850.00

ON THE WEB...

Looking for hotplate accessories? Such as temperature probes, heating baths, and clamps? We offer many types of accessories for all hotplates and stirrers.

Visit www.fishersci.com and search for Hotplate Accesories

Thermo Scientific™ Extra-Capacity Hotplates

For constant temperature applications even heat (to 371°C)

- Large, aluminum heating surface and thermostatic controls for superior temperature uniformity and stability
- Thermostatic temperature control provides excellent stability
- Safe and reliable construction
- Cycle light indicates when power is being supplied to heating element
- Stainless-steel case provides optimal strength for heavy loads
- Epoxy-painted surface increases chemical resistance in corrosive environments
- Large 12 × 12" (30.5 × 30.5cm) and 12 × 24" (30.5 × 60.9cm) top plate surfaces accommodate up to 40 lb. (18.2kg) loads

WARRANTY:
Three years

CERTIFICATIONS:
UL listed.

ALERTS:
Recommended for use with glass vessels only.

Products in this grouping may have voltages other than the standard US 110/115V. Please review and confirm your selection before completing your order. Some of these products may not be returned.

Specifications	
Operating Temperature	38° to 371°C (100° to 700°F)

Electrical Requirements	Mfr. No.	Cat. No.	Each
Large models			
120V 50/60Hz, 1600w, 13.3A	HPA2235MQ	**11-496-5AQ**	1018.00
240V 50/60Hz, 1600w, 6.7A	HPA2230MQ	**11-496-6AQ**	983.91
Extra-large models			
120V 50/60Hz, 3200w, 26.6A	HPA2245MQ	**11-496-5BQ**	1419.00
240V 50/60Hz, 3200w, 13.3A	HPA2240MQ	**11-496-6BQ**	1419.00

WARNING

Recommended for use with glass vessels only

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Remote-Control Hotplates

Large and extra-large hotplates with safe, remote controls

- Large capacity with excellent temperature stability
- Robust design for safety
- Porcelain-coated, stainless-steel top offers chemical and stain resistance
- Chemical-resistant cover protects line cord
- Stainless-steel case offers maximum resistance to corrosion
- Isolation of controls allows operation in hazardous environments
- Large 12 × 12" (30.5 × 30.5cm) and 12 × 24" (30.5 × 60.9cm) top plate surfaces accommodate up to 40 lb. (18.1kg) loads
- Temperature stability is ±5°C (9°F) over the operating temperature range
- Embedded heating elements maximize temperature uniformity and evenly transfer heat within ±10°C (18°F) at 150°C (300°F)
- Percentage input controller delivers infinite temperature selection
- Power light indicates when control is operating

INCLUDES: 5' (1.5m) 3-wire cord and plug

WARRANTY: Three years

Model	Electrical Requirements	Cat. No.	Each
Large	120V 50/60Hz	**11-496-66Q**	1391.00
Extra-large	240V 50/60Hz	**11-496-6EQ**	1768.00

Specifications	
Operating Temperature	150° to 371°C (300° to 700°F)

Heidolph MR Series Magnetic Stirrer Hotplates

13-889-334

For smooth to intense mixing and heating of low-viscosity fluids and an excellent choice for decomposing organic and inorganic substances

All Units Feature

- For smooth to intense mixing and heating of low-viscosity fluids, an excellent choice for decomposing organic and inorganic substances
- Hotplate reaches a maximum temperature of 3000°C
- For your protection an independent safety circuit will switch off heating if hotplate temperature exceeds 250°C over set temperature
- A separate on/off switch for heating prevents an unintentional heat-up
- Strong magnetic field enables stirring even high viscosity media or volumes of 20L of water with ease
- Speed is variably adjustable from 30 to 1400rpm to an accuracy of ±1% for gentle mixing
- Kera-Disk top plate allows fast heat-up times and chemical resistance
- Glass ceramic top plates offer the benefits of chemical-resistance, scratch-proof but produce longer heat-up times
- Kera-Disk top plates take the best of two worlds: The aluminum top plate allows immediate heat transfer for quick heat-up times and a thin layer of ceramic coating makes the top plates chemical-resistant and scratch-proof
- Sealed housing guarantees extended performance life and reduced maintenance
- Protection against aggressive fumes, liquids and vapors which can cause internal corrosion
- Lifespan of 10 years on average at reduced maintenance and repair cost

MR Hei-Standard

- For standard applications without display
- Analog knobs allow for convenient speed setting from 100 to 1400 rpm at an accuracy of 2% and temperature setting up to 3000°C
- Upgrade this magnetic stirrer with the optional digital thermometer EKT Hei-Con that provides precise control of temperature to give you temperature overshoot protection and reproducible results

MR Hei-Tec

- For high requirements and reproducible results
- Features a digital display and allows for easy setting an monitoring of values in the illuminated readout
- Digital speed setting from 100 to 1400rpm at an accuracy of 2% and temperature setting up to 3000°C
- An illuminated button indicates clearly if the stirring mode is activated
- Upgrade this magnetic stirrer with the optional Pt 1000 temperature sensor for precise temperature control, overshoot protection and reproducible results

MR Hei-End

- For highest safety
- An independent safety circuit switches off heating at an operator-programmed temperature value above your set temperature
- Additional operational safety step is required to change parameters which prevents unwanted changes to the actual setting
- Speed setting from 30 to 1400 rpm at an accuracy of 1% and temperature setting up to 3000°C
- Hotplate residual heat indicator in the digital display illuminates when unit is turned off and hotplate temperature is above 500C to prevent accidental operator injury
- To protect your sample from overheating, a safety circuit will switch off heating if the temperature sensor is not immersed in your media vessel
- Upgrade this magnetic stirrer with the optional Pt 1000 temperature sensor from precise temperature control, overshoot protection and reproducible results

Specifications	
Speed (Max.)	1400rpm
Heating Power	600w
Hotplate Temperature	300°C (572°F)
Max. Stirring Capacity (H_2O)	20L (5.3 gal.)
Max. Load	25kg
Plate Diameter	5.68" (14.5cm) 145mm
Dimensions (L × W × H)	6.81 × 10.87 × 3.68" (17.3 × 27.7 × 9.4cm)
Power Supply (v/Hz)	115/60

Description	Accuracy	External Temperature Sensor (Optional)	Power Consumption	Mfr. No.	Cat. No.	Price
MR Hei-Standard	±2%	EKT Hei-Con	820w	036110520	**13-889-334**	1044.00
MR Hei-Tec	±2%	Pt 1000	820w	036110550	**13-889-335**	1074.00
MR Hei-End	±1%	Pt 1000	825w	036110580	**13-889-336**	2070.00

Corning

Corning™ Digital Hotplates and Stirring Hotplates

Ceramic-top units offer precise control with digital readouts for optimal heating and stirring

Microprocessor-controlled feedback technology maintains consistent repeatable temperature and stir speed settings. Compact units have a small footprint and low profile to fit easily on a benchtop or inside a hood.

11-500 Series

Operating Features

- Heating Range: 5° to 550°C
- Simple, easy-to-use controls
- Digital temperature display is adjustable in 5° increments and indicates when set temperature is reached
- Bright LED icon for POWER and HOT TOP icon, which lights up when top plate is over 60°C
- Optional external temperature controller (Cat. No. 6795PR) truly controls temperature inside the vessel
- Glass-ceramic Pyroceram™ top cleans easily and resists scratches, corrosion and chemicals
- Spill-deflecting housing design
- Built-in support rod mount for temperature probe

Stirring Hotplate Models

- Feature separate temperature and speed displays
- Stirring range: 60 to 1150rpm

ORDERING INFORMATION:
Accessories, including External Temperature Controller (07-250-143) and support rods, are available online. For stirring-only units, see Corning Digital Stirrers

INCLUDES:
Stirring Hotplate Kits include one each: stirring hotplate (see model for size) and Stir Bar Retriever (14-972-50)

REQUIRES:
Stir bars (stirring models only); sold separately

WARRANTY: Two years

CERTIFICATIONS: UL, cUL

Description	Top Plate Area	Temperature Range	Stirring Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
Hotplate	5 × 7"	50° to 550°C (41° to 1022°F)	----	120V 60Hz, 628w, 5.3A	6795-400D	**11-500-152**	330.78
Hotplate	10 × 10"	50° to 550°C (41° to 1022°F)	----	120V 60Hz, 1043w, 8.7A	6795-600D	**11-500-153**	565.60
Magnetic Stirrer	10 × 10"	----	60 to 1150rpm	120V 60Hz, 628w, 5.3A	6795-410D	**11-500-154**	332.00
Magnetic Stirrer	10 × 10"	----	60 to 1150rpm	120V 60Hz, 628w, 5.3A	6795-610D	**11-500-155**	602.00
Stirring Hotplate	5 × 7"	50° to 550°C (41° to 1022°F)	60 to 1150rpm	120V 60Hz, 698w, 5.9A	6795-420D	**11-500-150**	575.70
Stirring Hotplate	10 × 10"	50° to 550°C (41° to 1022°F)	60 to 1150rpm	120V 60Hz, 1113w, 9.3A	6795-620D	**11-500-151**	750.43
Stirring Hotplate Kit	5 × 7"	50° to 550°C (41° to 1022°F)	60 to 1150rpm	120V 60Hz, 698w, 5.9A	6795-420DKIT	**07-250-140**	672.16
Stirring Hotplate Kit	10 × 10"	50° to 550°C (41° to 1022°F)	60 to 1150rpm	120V 60Hz, 1113w, 9.3A	6795-620DKIT	**07-250-141**	901.93

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Prices subject to change.

Hydrometers

Fisher Scientific™ API ASTM™ Hydrometers, Plain Form

API hydrometers are available in regular and ASTM recommended forms

- Permanently marked with individual serial numbers
- Without thermometer in body
- Use Fisherbrand™ API gravity thermometers 11-604 and 11-604-5 (available separately)
- Approximate length: 330mm
- Temperature of standardization: 60°F

Fisher Scientific API ASTM Hydrometers Plain Form

ORDERING INFORMATION:
A certificate of calibration is available; simply add the letter "C" to the end of the catalog number when ordering.

COMPLIANCE:
Meet or exceed ASTM E 100 specifications which are accepted by NIST™ and U.S. Bureau of Mines, calibrated according toASTM E 126 specifications.

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST.

ASTM No.	API Range	Cat. No.	Each
Without 3-pt Certification			
1H	-1° to +11°	**11-603J**	50.08
2H	9° to 21°	**11-603K**	50.80
3H	19° to 31°	**11-603A**	49.34
4H	29° to 41°	**11-603B**	50.38
5H	39° to 51°	**11-603C**	50.80
6H	49° to 61°	**11-603D**	50.80

Fisher Scientific™ Precision Specific Gravity Hydrometers, 340mm Long

Requires 275mL liquid volume for submersion

Use Cylinder 08-530K, available separately.

- Permanently marked with individual serial numbers
- Accuracy meets or exceeds ASTM™ E 100 specifications
- Calibrated according to ASTM E 126 specifications
- With divisions of 0.001

ORDERING INFORMATION:
A certificate of calibration is available; simply add the letter "C" to the end of the catalog number when ordering.

CERTIFICATIONS:
A certificate is provided to indicate traceability to standards provided by NIST™.

Sp. Gr. Range	Approx. Length	Cat. No.	Each
Without 3-pt Certification			
0.640 to 0.710	340mm	**11-555A**	68.20
0.700 to 0.770	340mm	**11-555B**	67.24
0.760 to 0.830	330mm	**11-555C**	67.24
0.820 to 0.890	345mm	**11-555D**	67.24
0.880 to 0.950	340mm	**11-555E**	67.24
0.940 to 1.010	325mm	**11-555F**	67.24
1.000 to 1.070	340mm	**11-555G**	67.24
1.060 to 1.130	330mm	**11-555H**	67.24
1.120 to 1.190	335mm	**11-555J**	67.24
1.180 to 1.250	340mm	**11-555K**	67.24
1.240 to 1.310	340mm	**11-555L**	67.24
1.300 to 1.370	340mm	**11-555M**	67.24
1.360 to 1.430	345mm	**11-555N**	67.24
1.420 to 1.490	345mm	**11-555P**	67.24
1.480 to 1.550	330mm	**11-555Q**	67.89
1.540 to 1.610	330mm	**11-555R**	67.89
1.780 to 1.850	330mm	**11-555T**	58.80

Fisher Scientific™ Set of Eight Precision Specific Gravity Hydrometers

Permanently marked with individual serial numbers

Set includes thermometer with 0° to 220°F range and eight precision hydrometers that cover specific gravity range of 0.695 to 2.000.

- Approximately 300mm long for use with 08-530J cylinder, available separately
- In lined case

ORDERING INFORMATION:
A certificate of calibration is available; simply add the letter "C" to the end of the catalog number when ordering.

COMPLIANCE:
Accurate to one graduation line that meets or exceeds ASTM™ E 100 specifications, calibrated according to ASTM E 126 specifications.

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by NIST™.

ALERTS:
This product contains mercury. Don't put products containing mercury in the trash. Products containing mercury are to be recycled or disposed of as hazardous waste.

11-582

Description	Cat. No.	Each
Without Certification	**11-582**	486.73

Fisherbrand® Replacement Hydrometers for Set of Eight Precision Specific Gravity Hydrometers

Sp. Gr. Range	Division	Cat. No.	Each
Without 3-pt Certification			
0.695 to 0.810	0.001	**11-583A**	56.32
0.795 to 0.910	0.001	**11-583B**	56.32
0.900 to 1.010	0.001	**11-583C**	57.47
1.000 to 1.220	0.002	**11-583D**	57.47
1.200 to 1.420	0.002	**11-583E**	57.47
1.400 to 1.620	0.002	**11-583F**	57.47
1.600 to 1.820	0.002	**11-583G**	61.61
1.800 to 2.000	0.002	**11-583H**	72.38

Fisherbrand® ASTM™ Specific Gravity Hydrometers for Liquids Heavier than Water, 275mL Liquid Volume

Accuracy meets or exceeds ASTM E 100 specifications

- Temperature of standardization: 60°F
- Division: 0.0005
- Length: 330mm

COMPLIANCE:
Calibrated according to ASTM E 126 specifications.

Fisherbrand ASTM Specific Gravity Hydrometers for Liquids Heavier than Water, 275mL Liquid Volume

ASTM Test[s]	Specific Gravity [Range]	Cat. No.	Each
89H	1.000 to 1.050	**11-603-4H**	59.74
111H	1.000 to 1.050	**11-603-7A**	60.60
115H	1.200 to 1.250	**11-603-7E**	59.74

HB Instrument™ Durac™ Specific Gravity Plain Form Hydrometers For Liquids Heavier Than Water

Choose from a wide range of models that measure specific gravity for liquids heavier than water

- Lead free ballast
- Individually serialized
- Temperature of standardization: 60°F/15.6°C
- Tested in a triple accredited/registered ISO™/IEC 17025:2005, A2LA Accredited Calibration Laboratory; internationally recognized and accepted by the signatory economies of the ILAC /MRA
- Multi-language (English, French, German, Italian, Portuguese and Spanish) Statement of Accuracy traceable to NIST™

13-202-101

Range	Division	Length	Accuracy	Cat. No.	Each
1.000 to 1.250	0.005	6.5" (165mm)	0.005	**13-202-098**	28.25
1.200 to 1.450	0.005	6.5" (165mm)	0.005	**13-202-099**	28.25
1.400 to 1.650	0.005	6.5" (165mm)	0.005	**13-202-100**	28.25
1.600 to 1.850	0.005	6.5" (165mm)	0.005	**13-202-101**	28.25
1.240 to 1.310	0.001	6.5" (165mm)	0.001	**13-203-112**	32.34
1.300 to 1.370	0.001	6.5" (165mm)	0.001	**13-202-106**	25.77
1.360 to 1.430	0.001	6.5" (165mm)	0.001	**13-202-107**	25.77
1.420 to 1.490	0.001	6.5" (165mm)	0.001	**13-202-108**	27.75
1.480 to 1.550	0.001	6.5" (165mm)	0.001	**13-202-109**	27.75
1.540 to 1.610	0.001	6.5" (165mm)	0.001	**13-202-110**	27.75
1.600 to 1.670	0.001	6.5" (165mm)	0.001	**13-202-111**	27.75
1.660 to 1.730	0.001	6.5" (165mm)	0.001	**13-202-112**	27.75
1.720 to 1.790	0.001	6.5" (165mm)	0.001	**13-202-113**	27.75
1.780 to 1.850	0.001	6.5" (165mm)	0.001	**13-202-114**	27.75
1.840 to 1.920	0.001	6.5" (165mm)	0.001	**13-202-115**	46.72
1.900 to 1.970	0.001	6.5" (165mm)	0.001	**13-202-116**	46.72
1.970 to 2.040	0.001	6.5" (165mm)	0.001	**13-202-117**	46.72
1.000 to 1.600	0.005	11.8" (300mm)	0.005	**13-202-118**	22.40
1.500 to 2.000	0.005	11.8" (300mm)	0.005	**13-202-119**	22.95
1.000 to 2.000	0.01	11.8" (300mm)	0.01	**13-202-120**	22.95

Fisher Scientific™ Specific Gravity Hydrometers

Double scales can be read without turning hydrometer

Measure true specific gravity of liquids.

- Chemical-resistant bulbs and stems
- Streamlined to avoid trapping air bubbles
- With directional device that stops the instrument with the scale facing the user for more convenient, more accurate readings

ORDERING INFORMATION:
A certificate of calibration is available; simply add the letter "C" to the end of the catalog number when ordering.

COMPLIANCE:
Meet or exceed ASTM™ E 100 for accuracy, ASTM E 126 for calibration

Fisher Scientific Specific Gravity Hydrometers

Sp. Gr. Range	Div.	Approx. Length	Approx. Liquid Volume	Cat. No.	Each
Without 3-pt certification; For liquids lighter than water					
0.695 to 0.810	0.001	310mm	250mL	**11-510A**	56.43
0.795 to 0.910	0.001	310mm	250mL	**11-510B**	56.43
0.895 to 1.010	0.001	305mm	250mL	**11-510C**	56.43
0.790 to 0.900	0.002	170mm	140mL	**11-512B**	56.43
0.890 to 1.000	0.002	180mm	140mL	**11-512C**	56.43
0.650 to 1.000	0.010	165mm	140mL	**11-512D**	50.32
Without 3-pt Certification; For liquids heavier than water					
1.000 to 1.220	0.002	305mm	250mL	**11-520A**	52.43
1.200 to 1.420	0.002	275mm	250mL	**11-520B**	56.43
1.400 to 1.620	0.002	285mm	250mL	**11-520C**	56.43
1.600 to 1.820	0.002	290mm	250mL	**11-520D**	60.47
1.000 to 2.000	0.010	305mm	250mL	**11-520E**	50.32
1.000 to 1.600	0.005	290mm	250mL	**11-520F**	69.25
1.000 to 1.225	0.005	185mm	140mL	**11-522A**	56.43
1.200 to 1.425	0.005	160mm	140mL	**11-522B**	56.43
1.400 to 1.625	0.005	160mm	140mL	**11-522C**	56.43
1.000 to 2.000	0.020	165mm	140mL	**11-522D**	52.43

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Fisher Scientific™ Baume Hydrometers

Baume "heavy" scale for liquids heavier than water

- Permanently marked with individual serial numbers

ORDERING INFORMATION:
Use Fisherbrand cylinder 08-530J with 250mL of liquid for submersion, available separately.

COMPLIANCE:
Accuracy meets or exceeds ASTM™ E 100 specifications; calibrated according to ASTM E 126 specifications.

CERTIFICATIONS:
A certificate is provided to indicate traceability to standards provided by NIST™.

Fisher Scientific Baume Hydrometers

Baume Range	Division	Approx. Length	Cat. No.	Each
Without 3-pt certification				
0° to 12°H	0.1°	310mm	**11-571A**	56.32
9° to 21°H	0.1°	305mm	**11-571B**	56.32
19° to 31°H	0.1°	310mm	**11-571C**	56.32
29° to 41°H	0.1°	305mm	**11-571D**	66.95
39° to 51°H	0.1°	290mm	**11-571E**	56.32
49° to 61°H	0.1°	295mm	**11-571F**	61.30
0° to 30°H	0.5°	280mm	**11-580A**	56.32
0° to 50°H	0.5°	305mm	**11-580B**	50.22
0° to 70°H	1.0°	285mm	**11-580C**	52.32

Fisher Scientific™ Salimeters

Used to measure pickling and meat-packing brines

Saturated salt solution contains 26.4% by weight sodium chloride.

- Can be calibrated to read percentage saturation or percent salt at 60°F
- Permanently marked with individual serial numbers
- Approximate length: 305mm
- Require 250mL of liquid in 08-530J cylinder, available separately

ORDERING INFORMATION:
A certificate of calibration is available; simply add the letter "C" to the end of the catalog number when ordering.

COMPLIANCE:
Accuracy meets or exceeds ASTM™ E 100 specifications, calibrated according to ASTM E 126 specifications.

CERTIFICATIONS:
A certificate is provided to indicate traceability to standards provided by NIST™.

Range	Cat. No.	Each
0 to 26.4% Salt	**11-606**	64.65
0 to 100% Saturation	**11-605**	56.61

HB Instrument™ Durac™ Specific Gravity Precision Hydrometers

Individually serialized and feature metal ballast

- Tested and calibrated in triple accredited/registered ISO™/IEC 17025:2005 and A2LA laboratory
- Standardization temperature 60°F/15.6°C
- Come with multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy indicating accuracy traceable to NIST™ and DKD
- Feature 0.0005 divisions, 12.8" (325mm) length
- Provide accuracy of 0.001 specific gravity

13-202-066

Range (Specific Gravity)	Cat. No.	Each
0.820 to 0.890	**13-202-070**	25.77
0.880 to 0.950	**13-202-071**	25.77
1.000 to 1.070	**13-202-073**	19.36
1.060 to 1.130	**13-202-074**	25.77
1.300 to 1.370	**13-202-078**	22.26
1.360 to 1.430	**13-202-079**	25.77
1.420 to 1.490	**13-202-080**	25.77
1.480 to 1.550	**13-202-081**	25.77
1.540 to 1.610	**13-202-082**	25.79
1.600 to 1.670	**13-202-083**	25.79
1.660 to 1.730	**13-202-084**	25.79
1.720 to 1.790	**13-202-085**	25.79
1.780 to 1.850	**13-202-086**	25.79
1.840 to 1.920	**13-202-087**	25.79

HB Instrument™ Durac™ Precision Polycarbonate Hydrometers

- Durable — made from shatterproof material
- Reading ease — Easy-Read™ (black markings on yellow stock) scale reduces reading errors and eye fatigue; polycarbonate material offers optimal clarity
- Meets government and industry requirements for "made in the USA" products
- Precise — Statement of Accuracy indicating accuracy traceable to NIST
- Protective reusable storage case
- Chemical resistant — see product insert for recommended uses
- Length: 300mm
- Divisions: 0.002 to 1%

13-201-450

Range	Cat. No.	Each
1.000 to 1.180	**13-201-450**	82.20
1.050 to 1.220	**13-201-852**	82.30
1.200 to 1.420	**13-201-451**	82.20
10 to 100%	**13-201-453**	83.60

HB Instrument™ SafetyBlue™ Precision Combined Form Brix Sugar Hydrometers

Designed for determining the specific gravity, brix and alcohol by volume

Organic liquid filled thermometer, individual serial number and wax paraffin and steel shot. Each hydrometer conforms to the accuracy requirements for ASTM™ thermo-hydrometers. Hydrometers include multi-language (English, French, German, Italian, Portuguese and Spanish) Statement of Accuracy indicating accuracy traceable to NIST™ and DKD/PTB.

- Individually serialized
- Type: Brix sugar scale
- Hydrometer divisions: 0.1
- Thermometer range: 0° to 50°C
- Thermometer divisions: 1
- Length: 15" (381mm)
- Accuracy: 0.1 brix
- Temperature of standardization: 68°F/20°C

13-201-529

CERTIFICATIONS:
ISO/IEC 17025:2005 and DKD/PTB

Specifications	
Temperature of Standardization	68°F/20°C
Temperature Range	0° to 50°C
Accuracy	0.1 Brix
Hydrometer Divisions	0.1
Thermometer Divisions	1
Length	15" (381mm)

Hydrometer Range	Cat. No.	Each
0 to 12	**13-201-529**	54.10

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To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

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Prices subject to change.

Hygrometers

Fisher Scientific™ Traceable™ Relative Humidity/Temperature Meters

Monitor air conditions in environmental chambers, chemical storage areas, cleanrooms, incubators and stockrooms

- Humidity range: 25 to 95% RH, Accuracy: ±2% (midrange) to ±4% (outside midrange)
- Continuously and simultaneously display relative humidity (11-661-11) or humidity/temperature (11-661-12) in extra-large, 0.62"-high (1.5cm) digits
- Made from high-impact, chemical-resistant ABS plastic

With Temperature Readout

- Temperature readout in °C or °F; ranges from 0° to 50°C (32° to 122°F) with ±1°C/°F accuracy
- Measures 0.75L × 3.25W × 7"H (2 × 8 × 18cm)
- Net weight: 5 oz. (142g)
- Wall mount included

With Temperature Readout and Dual Min./Max. Memory

- Temperature readout in °C and °F; ranges from 0° to 50°C (32° to 122°F) with ±1°C/°F accuracy
- Minimum and maximum memories permit air monitoring overnight, during weekends, or for virtually any other time period
- Measures 0.62L × 2.62W × 3.87"H (2 × 7 × 10cm)
- Net weight: 2 oz. (57g)
- Wall mount and bench stand included

INCLUDES:
Two 1.5V batteries for one year of continuous service. Replacement batteries available separately.

COMPLIANCE:
Cat. No. 11-661-13 meets federal requirements for CLIA Specification 493.1207 for monitoring temperature and humidity in clinical laboratories.

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

11-661-13

Description	Cat. No.	Each
Digital Humidity Meter Only	**11-661-11**	77.20
Digital Humidity/Temperature Meter		
Without Memory	**11-661-12**	83.00
With Temperature Readout and Dual Min./Max. Memory	**11-661-13**	90.70

Fisher Scientific™ Traceable™ Digital Hygrometer/Thermometer

Ideal for constantly monitoring labs, storage facilities and plant areas

Shows humidity and temperature readings at a glance on 0.5" (1.2cm) LED.

- Displays 25 to 95% RH with accuracy of ±2% at mid-range and ±4% at ends of range; resolution is 1% RH
- Displays temperatures from 0° to 50°C and 32° to 122°F with 0.1° resolution
- Temperature accuracy: ±1.0°C from 0° to 40°C (±2°C otherwise); ±1.8°F from 32° to 104°F (±3.6°F otherwise)
- Adjustment not necessary
- Hang on the wall or use included plastic stand
- Housed in rugged ABS case

11-661-7D

ORDERING INFORMATION:
Measures 0.87L × 3.5W × 5"H (2 × 9 × 13cm).
Net weight: 6 oz. (170g).

INCLUDES:
Plastic stand; AA battery

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Digital Hygrometer/Thermometer	**11-661-7D**	88.80

Fisher Scientific™ Traceable™ Humidity/Temperature Pen with Memory

Ideal for monitoring RH in labs and plants

Continuously and simultaneously displays relative humidity and temperature (in Celsius and Fahrenheit) with dual-recall memories. Handy pocket clip makes it easy to carry.

11-661-14

- Relative humidity range: 25 to 98% with a resolution of 1%, Accuracy of ±3.5% (midrange) to ±5.5% (outside midrange)
- Temperature range: 0.0° to 50.0°C (32.0° to 122.0°F) with a resolution of 0.1° and an accuracy of ±1°C (±1.8°F)
- Memory displays highest and lowest readings achieved overnight or during any time period
- Display (0.75" high) can be read at a glance, shows changes in less than 30 seconds and is updated every second
- High-impact, chemical-resistant ABS plastic

ORDERING INFORMATION: Measures 0.5L × 6.62W × 1.25"H (1.2 × 17 × 3.2cm). Net weight: 1.75 oz. (50g).

INCLUDES:
1.5V battery for continuous "always on" monitoring for one-half year

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Humidity/Temperature Pen	**11-661-14**	78.40

Fisher Scientific™ Traceable™ Remote Alarm RH/Temperature Monitor

Triple-display and remote control unit offers safety and convenience

14-649-84

For routine measurements, round-the-clock monitoring, quality control and critical experiments. Place sensor in hoods, cleanrooms, coolers, stockrooms, incubators, environmental chambers and chemical storage areas.

- Temperature range: -50° to +70°C (-58.0° to +158.0°F) with 0.1° resolution and ±1°C accuracy
- Humidity range: 20 to 99% with 1% resolution and ±3% accuracy RH (midrange; otherwise ±5%)
- High-visibility 0.5" high digits simultaneously display high, low and current readings for temperature or humidity
- Minimum/maximum memory for temperature and humidity
- Alarm can be set in 1% RH and 1° increments; sounds when reading moves outside setpoints
- External sensor on 7' (2.13m) cable
- High-impact, chemical-resistant ABS plastic case
- With flip-open stand for benchtop; slot for wall mounting

ORDERING INFORMATION:
Dimensions: 2.75L × 4.25W × 0.75"H (7 × 10.8 × 1.9cm).
Net weight: 4 oz. (113g).

INCLUDES:
Flip-open stand for benchtop; slot for wall mounting; external temperature/humidity sensor; "AAA" battery

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Remote Alarm RH/Temperature Monitor	**14-649-84**	78.70

Fisher Scientific™ Traceable™ Jumbo Thermo-Humidity Meter

Fast-response, solid-state sensors show changes in relative humidity, ambient temperature and (with probe) external temperature in under 30 seconds

11-661-19 with supplied probe

Display is updated once every second and shows temperatures in (user-settable) °F or °C. Jumbo (1.12"H) display can be read from 35' (10.7m).

- Humidity range: 25 to 95% RH, with 1% resolution and ±2% (midrange) to ±4% (outside midrange) accuracy
- Ambient temperature range: -5° to +50°C (+23° to +122°F)
- External temperature probe (included) reads -50° to +70°C (-58° to +158°F)
- Resolution to 1° and accuracy ±1°C for both ambient and external temperature readings
- Dual-recall (minimum and maximum) memory can be displayed or cleared at the touch of a button
- Permits monitoring conditions overnight, weekends or during any user-set time period
- External temperature sensor and cable perform accurately under water
- Unit is battery-operated, self-contained, stable and accurate; requires no adjustment or maintenance

ORDERING INFORMATION: Measures 0.75L × 3.87W × 4.25"H (2 × 9.8 × 10.8cm) and weighs 5.4 oz. (153g).

INCLUDES:
Chemical- and shock-resistant ABS plastic case, flip-open stand, wall mount, external temperature probe, 10' (3m) cable and AAA alkaline battery

COMPLIANCE:
Meets federal requirements for CLIA specification 493.1207 for monitoring temperature and humidity.

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Thermo-Humidity Meter	**11-661-19**	84.40

Fisher Scientific™ Traceable™ Temperature and Humidity Monitor

Constantly measures humidity and temperature

Read ambient temperature, probe temperature and ambient relative humidity on bright LCD; digits are 0.5" high.

11-661-9

- External temperature sensor displays from -50° to +70°C and -58° to +158°F, with 0.1° resolution and ±1°C (±1.8°F) accuracy
- Internal sensor measures ambient temperature from 0° to 50°C and 32° to 122°F with 1° resolution
- Relative humidity range is 25 to 95%, with 1% resolution and ±2% (midrange) to ±4% (outside midrange) accuracy
- Low-battery indicator
- No ON/OFF switch
- Probe and cable can be submersed in water
- Rugged ABS plastic case

ORDERING INFORMATION:
Measures 5L × 3.5W × 0.87"H (13 × 9 × 2cm). Probe cable length, 10' (3m).

INCLUDES: Two AA batteries, internal humidity sensor, external and internal temperature sensors and cable

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Temperature/Humidity Monitor	**11-661-9**	130.10

Fisher Scientific™ Traceable™ Humidity Meter

Retains highest and lowest readings recorded over selected period

- Measures relative humidity from 10 to 95%, with 0.1% resolution and ±2% (mid-range), ±4% (ends of range) accuracy
- Reads temperatures from -18° to +93°C (0° to +199.9°F), with 0.1° resolution and accuracy of ±1°C (from 0° to 40°C) and ±2°C (at ends of range)
- Results appear on 1.12" LCD
- Response time <10 seconds
- RS-232-C serial computer output
- Miniature probe
- Shockproof ABS plastic case

06-661-18

ORDERING INFORMATION:
Resistive-polymer probe measures 8.5" (22cm).
Case measures 7.12L × 2.75W × 1.25"H (18 × 7 × 3cm).
Net weight: 7.4 oz. (210g).

INCLUDES: 3' (0.9m) cable and 9V battery for 100 hours of continuous use.

COMPLIANCE: Meets Federal CLIA Requirement 493.1207.

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Humidity Meter with Probe	**11-661-18**	193.50

Fisher Scientific™ Certified Traceable™ Digital Hygrometer/Thermometers

Meet critical experimental requirements, perform routine measurements and fulfill all quality control needs

Ideal for cleanrooms, hoods, environmental chambers, incubators, desiccators and all inside/outside air monitoring.

- Temperature range: -40° to +104°C and -40° to +220°F, with ±0.4°C (±0.4°F) accuracy, 0.1°C resolution
- RH range: 10 to 95% (basic model), 5 to 95% (instant model); accuracy, ±1.5%; resolution, 0.01%
- Calculate frost point, latent heat, sensible heat, vapor pressure, moisture content, specific enthalpy, specific volume, specific humidity, mixing ratio and vapor density from moist air
- Programmable high and low setpoints for temperature, humidity and dew point sense out-of-specification condition, sound alarm and flash display
- Built-in memory recalls highest and lowest readings; computer output capability permits data to be captured, stored and printed
- Instant model provides humidity readings in P10 seconds; basic model in up to 3.5 minutes
- Bright, 0.5"-high, four-digit LCD is 10 times more readable than glass thermometer sling units or meter scales
- Microcomputer, solid-state construction eliminates glass breakage, mercury separation and dial shock damage
- Tough ABS plastic cases ensure a long life — even in severe lab or harsh plant environments

INCLUDES:
7" (18cm) combination probe, 54" (1.37m) cable, 9V alkaline battery (one year intermittent, 100 hour continuous), low-battery indicator and ABS plastic carrying case

11-661-7A

REQUIRES:
Computer output capability requires accessory data cable, available separately. Contact your Fisher Scientific Customer Service Representative for details.

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™).

Description	Cat. No.	Each
Fisher Scientific Certified Traceable Digital Hygrometer/Thermometers; Basic model	**11-661-7A**	607.69
Fisher Scientific Certified Traceable Digital Hygrometer/Thermometers; Instant model	**11-661-7B**	744.25

Fisher Scientific™ Certified Traceable™ Digital Hygrometer/ Thermometer

Designed for cleanrooms, hoods, process control and air monitoring

11-661-8

Completely portable, rugged, handheld, digital hygrometer and thermometer is designed for years of severe lab, field or plant use.

- Measures relative humidity from 5.0 to 95.0%, with ±1.5% accuracy, 0.01% resolution
- Temperature range: 32° to 122°F, with ±0.4°F accuracy and resolution of 0.01°
- Simple to use: just set the selector switch, point and read the 0.5" LCD
- No warmup, wicks or swinging required
- Responds in as little as 30 seconds

ORDERING INFORMATION: Measures 1.5L × 2.75W × 8"H (4 × 7 × 20cm). Net weight: 8 oz. (227g).

INCLUDES: Integral humidity and temperature sensors, rugged ABS case and one 9V alkaline battery for six months of intermittent use (about 100 hours continuous use)

CERTIFICATIONS: A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Digital Hygrometer/Thermometer	**11-661-8**	333.50

Fisher Scientific™ Traceable™ Dew-Point/Wet-Bulb/Humidity Thermometer

Monitor shows current, minimum and maximum displays

15-077-963

- Temperature range, -40° to +70°C (-40° to +158°F), with ±1°C accuracy and 0.1° resolution (below 100)
- Relative humidity range, 1 to 99%; accuracy, ±4% between 20 to 80% RH; resolution, 0.1% RH
- Settable high/low alarm for all four readings (dew-point, wet-bulb, humidity, temperature)
- Alarm sounds and flashes
- Large LCD digits are 1" (2.5cm) high
- Case is high-impact, chemical-resistant ABS plastic

ORDERING INFORMATION:
Dimensions: 4.12 × 4.12 × 1" (10.5 × 10.5 × 2.5cm); Weight: 4.25 oz.

INCLUDES: Two AA alkaline batteries

COMPLIANCE: Meets federal requirements for CLIA specification 493.1207 for monitoring temperature and humidity.

CERTIFICATIONS: A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Description	Cat. No.	Each
Dew-Point/Wet-Bulb/Humidity Thermometer	**15-077-963**	66.30

Fisher Scientific™ Traceable™ Memory-Card Humidity/Temperature/Dew Point

Min/max memories and high/low alarms, plus integrated datalogger

Captures 5.9 million readings with removable 256MB SD card. Monitors cabinets, incubators, cleanrooms, storerooms, labs, hoods and critical areas

Thermometer

- Covers 32° to 122.0°F (0° to 50.0°C)
- Min/max displays highest/lowest readings for any time period
- Alarm sets in 0.1 increments and beeps and flashes a bright red LED

DataLogger

- Records readings from once a minute to up to once every 720 minutes on a standard SD memory card
- Captures equivalent of minute-by-minute readings over 10 years
- Supplied memory card reader plugs into any USB computer port for an instant report, with no software to install

Specifications

- Sampling Rate: Once per minutes up to once per 720 minues (user configurable)
- Memory: 256MB memory card, but up to 4GB card can be accommodated
- Temperature Range: 0° to 50.0°C with 0.1°C resolution
- Temperature Accuracy: ±1°C
- Humidity Range: 0.0 to 90.0% with 0.1% resolution
- Dew Point range: -20.0° to +50.0°C with 0.1° resolution
- Size L × W × H: 3.5 × 4.25 × 1.25" (8.9 × 10.8 × 3.2cm)

15-081-112

ORDERING INFORMATION: Operates on supplied batteries or supplied adaptor. Batteries last one year with no data capture and one month with sampling rate of one per minute. If adaptor receives no current, battery provides automatic backup.

INCLUDES: Batteries, adaptor, 256MB memory card reader, magnetic mounting strips, Velcro™ wall mount, bench stand, Traceable Certificate and high-impact, chemical-resistant, ABS plastic case

CERTIFICATIONS: An individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST™ (National Institute of Standards and Technology).

Cat. No.	Each
15-081-112	254.00

Ice/Insulated Containers

Aerosol Coolant

Fisherbrand® Super Friendly Freeze'It™

Aerosol for cooling liquid, semisolid and solid samples

23-022-524

- Rapidly cools any material without CFCs or HCFCs
- Concentrates freezing power exactly where needed
- Capable of dropping sample temperature from room temperature to -60°F in three seconds
- Triple-filtered gas prevents sample contamination and enhances cooling ability
- Deters the water crystal formation that occurs with slower refrigerants

INCLUDES:
11 oz. (312g) of noncorrosive, nonflammable, odorless, completely volatile gas; 5" (12.7cm) polyethylene "snorkel"

Size	Cat. No.	Case of 6
11 oz. (312g)	**23-022-524**	179.10

Fisherbrand® Polyurethane Ice Buckets

For use with liquid nitrogen, dry ice, water ice and salt solutions

02-591-44, 02-591-45, 02-591-46

- Capacity: 0.152 oz. (4.5L)
- Rigid polyurethane skinned-foam construction provides high durability and excellent insulating properties; buckets will not sweat or leak, and are unbreakable with normal use
- Resistant to acetone and easy to clean — can be chemically disinfected
- Withstand temperatures up to 95°C (203°F)
- Octagonal design will not deform; stable when full
- Molded handles enable safe handling and transport
- Flush lid with recessed handle allows stacking for convenient storage

ORDERING INFORMATION:
Internal dimensions: Base diameter, 6" (15.5cm); Rim diameter, 9.625" (24.5cm); Depth, 6" (15.5cm). External dimensions: Base diameter, 7.25" (18.5cm); Rim diameter (maximum, with handles), 12.75" (32.5cm); Height, 7.25" (18.5cm)

Color	Cat. No.	Each
Black	**02-591-44**	140.50
Blue	**02-591-45**	140.50
Red	**02-591-46**	140.50

Ice Buckets and Pans

Bel-Art™ Scienceware™ Magic Touch™ Iceware Ice Buckets

Lightweight ice buckets have excellent insulating properties for keeping temperature sensitive samples in an optimal environment

11-676 Series

- Temperature range: -196° to +100°C (-321° to +212°F)
- Use with ice, dry ice, dry ice alcohol slurries or liquid nitrogen
- Nonsweating
- Impervious to moisture and odors
- Expanded polymer foam construction provides chemical resistance
- Unbreakable under normal use conditions
- Flared edge for easy carrying
- Lid can be cut to make openings for thermometers, cooling coils, flasks, etc.
- Available in two sizes: 2.5L buckets measure 22.2cm dia. at rim × 12.0cmH (8.75 × 4.75"); 4.0L buckets measure 21.5cm dia. at rim × 17.0cmH (8.5 × 6.7")
- Round floating racks available separately for 1.5mL and 15mL tubes

Color	With Lid	Mfr. No.	Cat. No.	Each
2.5L Capacity, Outside Dia. × H 10 × 5" (25.4 × 12.7cm)				
Blue	No	18848-2201	**11-676-78**	82.60
4L Capacity, Outside Dia. × H 10 × 7" (25.4 × 17.8cm)				
Blue	No	18848-4201	**11-676-79**	98.50

Bel-Art™ Scienceware™ Magic Touch 2™ Ice Buckets

Superior insulating properties combined with high chemical resistance

- Compatible not only with wet ice, but also with ultra-low temperature materials including dry ice, salt slurries, dry ice solvent slurries or liquid nitrogen
- Able to withstand a wide temperature range of -196°C (-320°F) to 100°C (212°F)
- High-quality, expanded urethane laboratory ice buckets are lightweight, durable, nonsweating and impervious to moisture and odors
- Convenient pour spout, drip-proof rims and a fill line indicator
- Snug-fitting keyed lid and base for easy stacking
- Lightly textured, nonslip finish and raised edge provides secure transport and a stylish look

Color	Mfr. No.	Cat. No.	Each
2.5L Capacity			
Blue	M16807-2001	**11-999-054**	105.10
4.0L Capacity			
Blue	M16807-4001	**11-999-058**	110.20

Before You Buy **Shipping Solutions and Refrigerants**

SONOCO THERMOSAFE®

Selecting the Right Refrigerant

Sonoco Thermosafe offers a wide selection of refrigerants for use with its insulated containers.

This table is intended to assist you with selecting the best refrigerant for your shipments.

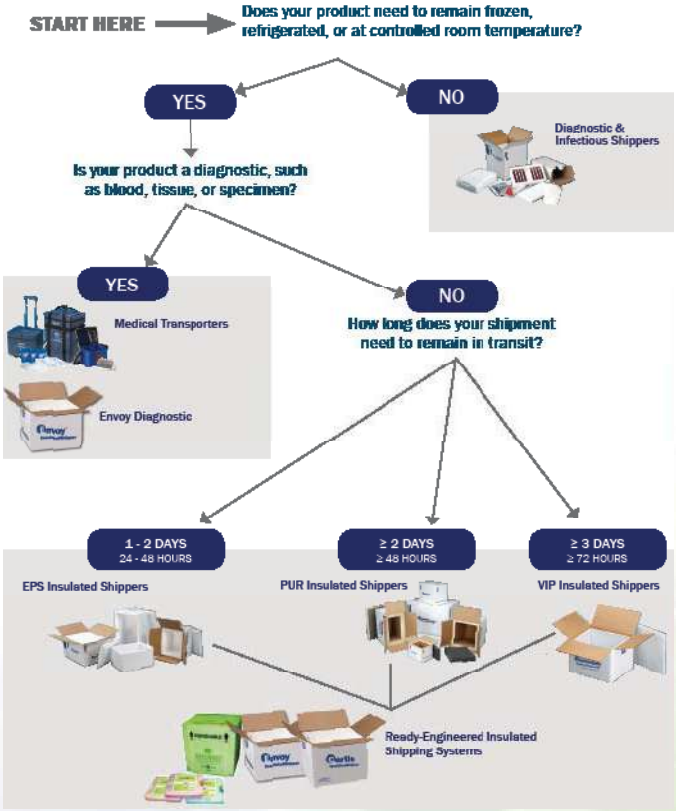
REFRIGERANT	TEMP.	RECOMMENDED USE
Dry Ice	-78°C (-109°F)	Products which must be kept frozen for extended periods of time
-23°C (-10°F)	-23°C (-10°F)	Products which must be kept frozen
-1°C (+30°F)	-1°C (+30°F)	Products which must be kept cold for long periods of time
Standard Gel	0°C (+32°F)	Most cost-effective alternative to wet ice
Moisture Guard	0°C (+32°F)	Products which must be protected from condensation damage
Foam Brick	0°C (+32°F)	Maintains its shape when frozen or thawed
Rigid Bottle	0°C (+32°F)	Offers maximum durability while maintaining package configuration
Advanced Phase Change Materials	-40°C to +37°C	----

Sonoco ThermoSafe™, a Sonoco Products Company, is the leading global provider of packaging for the safe and efficient transport of refrigerated, frozen and controlled room temperature products and specimens. Our shipping solutions mitigate risk for our customers and ensure product efficacy throughout the extremes of a supply chain.

In addition, ThermoSafe's ISC Labs™ design and testing services deliver individualized and innovative packaging solutions along with qualification and validation services to meet all regulatory requirements.

Selecting the Right Shipper

See the chart below to determine which insulated shipper is right for your temperature sensitive products



Storage and Transport

ThermoSafe™ Insulated Storage and Transport Chests

Rugged polyethylene interior and exterior casing

- Efficient, nondeteriorating urethane foam insulation
- Resist vapor, water, rust, corrosion
- Washable
- Interior corners are rounded for easy cleanup
- Lid is hinged (except 50 lb. size) and includes support that keeps it upright

11-676-20 (dolly sold separately)

Capacity	Outside L × W × H	Inside L × W × D	Mfr. No.	Cat. No.	Each
50 lb. (22.7kg)	15 × 14.06 × 13.375" (38 × 36 × 34cm)	11.312 × 10.375 × 10.625" (29 × 26 × 27cm)	304	**11-676-13**	304.50
90 lb. (40.9kg)	18.25 × 16.81 × 18.75" (46 × 41 × 48cm)	15 × 14 × 15.25" (38 × 36 × 39cm)	450	**11-676-39**	470.03
155 lb. (70.4kg)	23 × 22 × 20.75" (58 × 56 × 53cm)	17 × 16.5 × 16.375" (43 × 42 × 42cm)	302	**11-676-11**	712.00
235 lb. (106.7kg)	28.125 × 19.125 × 25.25" (71 × 49 × 64cm)	22.81 × 13.5 × 21" (58 × 34 × 53cm)	301	**11-676-20**	924.50

ThermoSafe™ Storage/Transport Chests Under 5 Cu. Ft.

Low-temperature storage chests include a 275 lb. (124.7kg) bursting test laminated fiberboard exterior and an expanded polystyrene foam interior; with insulated lid

Ideal for dry ice and wet ice storage, short-term frozen storage, field collection and cryogenic testing. Available in deluxe hard case and economical fiberboard models.

0.44 cu. ft. (12.5L) capacity

- Store 24 lb. (10.9kg) of dry ice
- Average holding time of 1.9 days
- Net weight, 3 lb. (1.4kg)

0.7 cu. ft. (19.8L) capacity

- Store 33 lb. (15kg) of dry ice
- Average holding time of 2.6 days
- Net weight, 4 lb. (1.8kg)

4.3 cu. ft. (122L) capacity

- Store 270 lb. (122.5kg) of dry ice
- Average holding time of 18 days
- Net weight, 14.5 lb. (6.6kg)

ORDERING INFORMATION:
Dolly not included with chests.

Description	Dry Ice Capacity	Mfr. No.	Cat. No.	Each	Case of
Fiberboard Case with Foam Container	0.44 cu. ft. (12.5L)	314	**03-530**	33.75	8/219.50
Hard Case Insulated Transporter	0.7 cu. ft. (19.8L)	422	**03-530-41**	358.50	----
Fiberboard Case	4.3 cu. ft. (122L)	305	**11-676-18**	197.10	----

ThermoSafe™ U-tek™ Phase Change Materials

Ideal for transporting and shipping low-temperature scientific materials

- Packs return to gel state after thawing — do not actually melt
- Reusable
- Laminated, metallic film exterior provides heat barrier and resists punctures
- Temperature of a pack frozen at -23°C (-10°F) and then placed in a well-insulated container typically rises about 0.5°C (1°F) per hour at an ambient temperature of 25.3°C (77.6°F)

03-528C, 03-528B, 03-528-6

Net Weight	L × W × Thickness	Mfr. No.	Cat. No.	Case of
Freezing Point: -1°C (+30°F)				
8 oz. (227g)	6 × 4 × 0.75" (15 × 10 × 2cm)	429	**03-528-6**	36/48.80
12 oz. (340g)	6.75 × 4 × 1" (17 × 10 × 3cm)	412	**03-528B**	24/34.60
24 oz. (680g)	7.5 × 6.5 × 1" (19 × 17 × 3cm)	414	**03-528C**	12/25.90
Freezing Point: -23°C (-10°F)				
12 oz. (340g)	6.75 × 4 × 1" (17 × 10 × 3cm)	418	**03-528-1**	24/36.70
24 oz. (680g)	7.5 × 6.5 × 1" (19 × 17 × 3cm)	420	**03-528-5**	12/28.55

ThermoSafe™ PolarPack™ Foam Bricks

Reusable semi-rigid refrigerant blocks provide the thermal solution for temperature-critical packages during transit

- Available in a broad selection of styles and sizes
- Maintain temperature for an extended time
- Never change shape while in transit
- Freeze at 0°C (32°F)
- Nontoxic

03-530 Series

Weight	L × W × Thickness	Mfr. No.	Cat. No.	Case of
7 1/2 oz.	4.5 × 4 × 0.75"	FPP7B	**03-530-010**	72/64.90
15 oz.	4.5 × 4 × 1.5"	FPP15	**03-530-011**	36/36.40
31 oz.	9 × 4 × 1.5"	FPP31	**03-530-012**	18/32.15
64 oz.	10.5 × 6.5 × 1.75"	FPP64	**03-530-013**	10/32.20

General Purpose

ThermoSafe™ Certis™ Certified Shippers

Accommodate a broad range of temperature-sensitive products

With a flexible, modular design, these shippers can adjust to meet customer requirements for temperature control, shipping durations and payload sizes. ThermoPhase™ powered by PureTemp™ non petroleum phase-change technology enables strict temperature control, easy pack outs, greater efficiency and packages that are smaller and lighter. Three packout options include seasonal and year-round temperature protection.

- Choice of two ambient profiles (ISCgold™ and ISCsilver™)
- Easily modified to align with product specifications
- Off-the-shelf convenience
- Reduced shipping costs and transit time to market

Certis Gold:

- ISCgold ambient profile to meet in-transit temperature extremes for drug products
- Three to five day durations
- Universal packout

Certis Silver:

- ISCsilver ambient profile to protect packages under moderate or temperature-controlled distribution conditions
- One to three day durations
- Seasonal and Universal packouts

Packout	Insulation	Duration (hrs.)	O.D. (in./mm)	Payload Dimensions (in./mm)	Weight (lb.)	Dimensional Weight (lb.)	Mfr. No.	Cat. No.	Each
ISCgold Ambient Temperature Profile									
Universal	PUR	78	603 × 603 × 495 (23.75 × 23.75 × 19.5)	267 × 229 × 127 (10.5 × 9 × 5)	50	48	CRUG3SP	**03-531-202**	135.44
Universal	PUR	78	698 × 584 × 540 (27.75 × 23 × 21.25)	267 × 229 × 203 (10.5 × 9 × 8)	55	60	CRUG3MP	**03-531-203**	162.69
ISCsilver Ambient Temperature Profile									
Universal	EPS	54	540 × 540 × 527 (21.25 × 21.25 × 20.75)	235 × 235 × 267 (9.25 × 9.25 × 10.5)	36	56	CRUS2XE	**03-531-217**	114.92
Summer	EPS	30	565 × 445 × 406 (22.25 × 17.5 × 16)	267 × 133 × 137 (10.5 × 5.25 × 5.38)	15.7	38	CRSS1ZE	**03-531-205**	52.63
Winter	EPS	30	565 × 445 × 406 (22.25 × 17.5 × 16)	267 × 133 × 137 (10.5 × 5.25 × 5.38)	15.7	38	CRUG3XP	**03-531-206**	53.75
Summer	EPS	30	552 × 451 × 445 (21.75 × 17.75 × 17.5)	254 × 152 × 181 (10 × 6 × 7.13)	19.1	41	CRWS1ZE	**03-531-207**	63.83
Winter	EPS	30	552 × 451 × 445 (21.75 × 17.75 × 17.5)	254 × 152 × 181 (10 × 6 × 7.13)	19.1	41	CRWS1WE	**03-531-208**	67.19
Summer	EPS	54	565 × 445 × 406 (22.25 × 17.5 × 16)	267 × 133 × 137 (10.5 × 5.25 × 5.38)	21.3	38	CRSS2ZE	**03-531-209**	59.34
Winter	EPS	54	565 × 445 × 406 (22.25 × 17.5 × 16)	267 × 133 × 137 (10.5 × 5.25 × 5.38)	21.3	38	CRWS2ZE	**03-531-210**	60.47
Summer	EPS	54	552 × 451 × 445 (21.75 × 17.75 × 17.5)	254 × 152 × 181 (10 × 6 × 7.13)	22.2	41	CRSS2WE	**03-531-211**	78.32
Winter	EPS	54	552 × 451 × 445 (21.75 × 17.75 × 17.5)	254 × 152 × 181 (10 × 6 × 7.13)	22.2	41	CRWS2WE	**03-531-212**	80.90
Winter	EPS	54	603 × 603 × 495 (23.75 × 23.75 × 19.5)	267 × 267 × 203 (10.5 × 10.5 × 8)	39.5	66	CRWS2SE	**03-531-214**	109.74
Summer	EPS	78	603 × 603 × 495 (23.75 × 23.75 × 19.5)	267 × 267 × 203 (10.5 × 10.5 × 8)	59.1	66	CRSS3SE	**03-531-215**	116.46
Winter	EPS	78	603 × 603 × 495 (23.75 × 23.75 × 19.5)	267 × 267 × 203 (10.5 × 10.5 × 8)	59.1	66	CRWS3SE	**03-531-216**	120.09

Labtop Coolers

Thermo Scientific™ Benchtop Coolers

Designed specifically to protect enzymes, reagents, cells and solutions against extreme temperature fluctuations

09-740-72

- Maintain freezer temperature during the frost-free cycle, power failure and accidental door opening
- Hold 12, 20 or 32 tubes
- Inserts are included for use with 0.2-0.5mL microcentrifuge tubes
- Printed grid on one-way keyed lid for proper orientation and sample identification
- Molded of impact resistant polycarbonate with locking handle for long term use
- Stackable to save space

Style	No. of Compartments	Temp. Rating	Holds Temp., Hours	Dimensions (L × W × H)	Mfr. No.	Cat. No.	Each
Non filled/clear	4 × 5	-20°C	<-15°C, 1	8.9375 × 6.5 × 8.25" (226 × 165 × 133mm)	355501	**09-740-72**	171.30
Non filled/clear	3 × 4	0°C	<1°C, 3.5	5.3215 × 4.25 × 4.9375" (151 × 108 × 125mm)	DS5116-0012	**15-350-53**	190.30
Gel-filled/white	4 × 8	0°C	<1°C, 5.0	9.5625 × 6.1875 × 5.75" (243 × 157 × 146mm)	DS5116-0032	**15-350-54**	356.00
Non filled/clear	3 × 4	-20°C	<-15°C, 1	5.3125 × 4.25 × 4.9375" (151 × 108 × 125mm)	5115-0012	**15-350-61**	133.60
Gel-filled/white	4 × 8	-20°C	<-15°C, 2	9.5625 × 6.1875 × 5.75" (243 × 157 × 146mm)	5115-0032	**15-350-51**	248.00
Non-filled/clear	3 × 4	0°C	<1°C, 5.0	7.75 × 5.5 × 7.5" (197 × 140 × 190mm)	5116-1300	**15-350-63**	169.50
Non-filled/clear	3 × 4	0°C	<1°C, 5.0	7.75 × 5.5 × 7.5" (197 × 140 × 190mm)	5116-1600	**15-350-64**	165.66

Ice Makers

Hoshizaki™ Floor Model Ice Makers and Dispensers

Removable, cleanable air filters for efficient operation and dependable performance

- Easy-to-clean stainless-steel exteriors
- Place directly on floor
- Circuit breaker protects gear motor from overload
- Hermetically sealed motor runs for one minute after ice-making ends to clear ice from evaporator
- Stainless-steel exterior and evaporator

Models F300BAF and F500BAF

- Self-contained units
- Store 110 lb. or 250 lb. of ice
- Produce up to 303 lb. or 478 lb. of fresh flaked ice or cubes every 24 hours

Model F450MAH/B300PF

- Two-part unit includes ice maker F450MAH and bin B300PF
- Store up to 300 lb. of ice
- Produce up to 476 lb. of cubelets or flaked ice within 24 hours

WARRANTY:
Two years parts and labor; five years on compressor

11-675-6 without optional legs

Model	F300BAF	F450MAH/B300PF
Dispenses	Cubes or flaked ice	Cubelets or flaked ice
24-hr. Production (min./max.)†	218 to 303 lb. (98.9 to 137.4kg)	330 to 476 lb. (149.7 to 215.9kg)
Storage Capacity‡	110 lb. (49.9kg)	300 lb. (136.1kg)
Refrigerant	R-404	R-404
Condenser Type	Air-cooled	Air-cooled
Operating Limits		
Ambient Temperature Range	5° to 38°C (41° to 100°F)	7° to 38°C (45° to 100°F)
Water Temperature Range	5° to 32°C (41° to 90°F)	7° to 32°C (45° to 90°F)
Voltage Range	104 to 127V	104 to 127V
Water Pressure	10 to 113psig	10 to 113psig
Power Consumption	5.5kwh/100 lb. at 32/21°C (90/70°F); 4.2 at 21/10°C (70/50°F)	6.2kwh/100 lb. at 32/21°C (90/70°F); 4.3 at 21/10°C (70/50°F)
Water Consumption	12.0 gal./100 lb. at 32/21°C (90/70°F)	12.0 gal./100 lb. at 32/21°C (90/70°F)
Dimensions (L × W × H)	24 × 36 × 33" (61 × 91 × 84cm)	32 × 22 × 68" (81 × 56 × 173cm)
Shipping Weight	203 lb. (92.1kg)	195 lb. (88.5kg)
Electrical Requirements	115V 60Hz, 5.6A	115V 60Hz, 10A
Cat. No.	**11-675-6**	**11-675-9**
Each	8875.00	8888.23

† Min. at 90°F ambient and 90°F water temperature; max. at 70°F ambient, 50°F water temperature.
‡ Sanitary storage in self-contained bin.

Hoshizaki™ Self Contained Flaker

Durable, sustainable and reliable with built-in storage bin

Features air cooled condenser with up to 330 lb. of ice production per 24 hours.

- Corrosion resistant stainless-steel
- Automatic flush system for longer life and dependability
- Evaporator assembly protected from peak loads
- Convenient drop down door
- Front access for easier maintenance
- Removable air filter
- Front in, front out airflow — allows for easier fit into tight spaces with no clearance needed on sides and rear
- With R-404 Refrigerant

11-675-321

Dimensions	Capacity	Mfr No.	Cat. No.	Each
61D x 66W x 99 cm H	36.3kg	F-330BAH	**11-675-321**	7550.00

Hoshizaki™ Modular Flaker Ice Machine

Reliable with durable internal and external auger design

Features air cooled condenser with up to 493 lb. of ice production per 24 hours.

- Durable stainless steel exterior
- Made of CleanCycle12™ design
- 15-minute flush cycle every 12 hours
- Removable air filters
- With R-404A refrigerant
- Thermal overload motor protection
- Dual magnetic float switch
- High torque direct drive auger
- Electric water inlet valve

NOTE: Requires an ice bin

11-675-322

Description	Dimensions	Mfr No.	Cat. No.	Each
Modular flaker Ice machine; Up to 493 lbs. of ice production per 24 hours	69.5D x 55.8W x 55.5 cm H	F-450MAH	**11-675-322**	7092.50

Scotsman™ Floor Model Flake Ice Makers

Self-contained units that produce and store fresh-flaked ice

- Fit under most 40" counters
- Set directly on floor or mount on adjustable 6" legs
- Front ventilation
- Can be serviced completely from the front

09-540-104

24.25" Wide Rotocast Plastic Model

- Durable three-piece gray cabinet is completely removable from the front of the machine and won't rust
- Includes 7' power cord
- Max. 24-hour production, up to 395 lb.
- Stores up to 80 lb.

CERTIFICATIONS:
UL/ULC listed, National Sanitation Foundation approved

NOTES:
For new machine installations, order optional Cat. No. 09-540-121 Water Filter Package and Cat. No. 09-540-115 Install Kit.

Model	24.25" Wide Flake Ice Maker
Dispenses	Flakes
24-hr. Production	50°/70°: 179 to 395 lb. (81.2 to 179.2kg). ARI 70°/90°: 160 to 300 lb. (72.6 to 136.1kg)
Storage Capacity	80 lb. (36kg)
Refrigerant	R-134A
Condenser Type	Air-cooled
Operating Limits	
Ambient Temperature Range	10° to 37.7°C (50° to 100°F)
Water Temperature Range	4.4° to 37.7°C (40° to 100°F)
Voltage Range	115V (-5%/+10%)
Water Pressure	20 to 120psig
Power Consumption	5.4kwh/100 lb. at 32/21°C (90/70°F)
Water Consumption	12.0 gal./100 lb. at 32/21°C (90/70°F)
Dimensions (L × W × H)	24 × 24.25 × 33" (39"H min. with supplied 6" adjustable legs) (61 × 62.2 × 83.9 or 99cm)
Shipping Weight	185 lb. (84kg)
Electrical Requirements	115V (-5%+/10%), 60Hz, 1 phase. 15 amp
Cat. No.	**09-540-104**
Each	7416.90

ON THE WEB...

Remember, most ice machines require an installation kit and filtration system.

Visit www.fishersci.com and search for Ice Machine Accessories

Scotsman™ Modular Flaked Ice Maker and Storage Bin

Produces up to 550 lb. of flaked ice per day; bin holds up to 374 lb.

- Dependable ice maker performs under most any conditions
- Continuous ice-making process — no harvest time delays
- Up to 66% more energy efficient than cube models
- Delivers steady flow of ice for fast recovery of ice supply
- Only one moving part under refrigeration
- Higher capacity for larger volume and shared users
- 22" wide model saves valuable floor space
- Double-flight auger evenly distributes the load while heavy-duty direct-drive gearbox provides high reliability and long life
- AutoSentry™ Monitoring System constantly checks workload on gearbox, shutting down system before a problem develops
- Freezing chamber clearing delay permits drive motor to start with no load
- Electric conductivity water sensor eliminates low- or no-water failures and cannot be affected by adverse water conditions
- Use multiple units side-by-side
- Stainless-steel construction
- Manufactured in an ISO9001:2000 approved facility

09-540-108

Big storage bin for ample ice reserve

- Holds 374 lb.
- NSF approved construction
- Attractive stainless-steel finish
- Polyethylene liner

WARRANTY: Three years parts and labor on all components; five years parts on compressor

CERTIFICATIONS: UL and CUL (Canada) listed, National Sanitation Foundation approved

NOTES: For new machine installations, order optional Cat. No. 09-540-121 Water Filter Package and Cat. No. 09-540-115 Install Kit.

Model	**F0522A/B322S**
Dispenses	Flakes
24-hr. Production	50°/70°: 510 lb. (232kg). ARI 70°/90°: 460 lb. (209kg)
Storage Capacity	Bin Capacity: 374 lb. (166kg)
Refrigerant	R-404A
Condenser Type	Air-cooled
Operating Limits	
Ambient Temperature Range	10° to 37.7°C (50° to 100°F)
Water Temperature Range	4.4° to 37.7°C (40° to 100°F)
Voltage Range	115V (-5%/+10%)
Water Pressure	20 to 120psig
Power Consumption	6.1kwh/100 lb. at 32/21°C (90/70°F)
Water Consumption	12.0 gal./100 lb. at 32/21°C (90/70°F)
Dimensions L x W x H†	Ice Maker: 24L × 22W × 23"H (61 × 53.3 × 68.6cm). Bin: 31L × 22W × 44"H (78.7 × 55.9 × 111.8cm)
Shipping Weight	325 lb. (147.42kg)
Electrical Requirements	115V (-5%+/10%), 60Hz, 1 phase, 15A
Cat. No.	**09-540-108**
Each	8496.27

Scotsman™ Touchfree™ Benchtop Flake Ice Maker and Dispenser

Makes and dispenses true flaked ice, perfect for packing samples

- Ice quickly conforms to container and sample — even microcentrifuge tubes
- Sleek, easy-to-clean stainless-steel finish for laboratory and clinical use
- Up to 25% less fan noise allows installation in the quietest labs
- Containers up to 13"H fit within dispensing compartment; larger vessels can be tilted
- Touchfree one-hand operation reduces risk of cross-contamination
- Photoelectric eye allows for maximum ice storage
- Front panel switch lets you select ice only or ice and water
- Corrosion-resistant stainless-steel exterior

CERTIFICATIONS:
UL and CUL (Canada) listed; National Sanitation Foundation approved

NOTES:
For new machine installations, order optional Cat. No. 09-540-121 Water Filter Package and Cat. No. 09-540-115 Install Kit.

Model	Touchfree Benchtop 14" Ice Maker/Dispenser
Dispenses	Ice flakes; flakes and water
24-hr. Production	50°/70°: 178 to 392 lb. (80.7 to 177.8kg). ARI 70°/90°: 133 to 294 lb. (60.3 to 133.4kg)
Storage Capacity	12 lb. (6kg)
Refrigerant	R-134A
Condenser Type	Air-cooled
Operating Limits	
Ambient Temperature Range	10° to 37.7°C (50° to 100°F)
Water Temperature Range	4.4° to 37.7°C (40° to 100°F)
Voltage Range	115V (-5%/+10%)
Water Pressure Range	20 to 120psig
Power Consumption	5.6kwh/100 lb. at 32/21°C (90/70°F)
Water Consumption	12.0 gal./100 lb. at 32/21°C (90/70°F)
Dimensions (L × W × H)	23.75 × 14 × 34.25" (60.3 × 35.6 × 87cm)
Shipping Weight	155 lb. (70kg)
Electrical Requirements	115V (-5%+/10%), 60Hz, 1 phase. 20 amp
Cat. No.	**09-540-102**
Each	7447.00

GLOBAL COVERAGE WITH A LOCAL TOUCH

The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

Sales Representatives . . . Customer Service Representatives . . . Technical Sales Representatives . . . Safety Specialists . . . Chemical Specialists . . .

Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

Immunochemistry

Antibody Labeling

GE Healthcare Amersham™ CyDye™ Antibody Labeling Kits

Convenient way to tag antibodies with CyDye fluorescent dyes

CyDye fluorescent dyes are supplied as highly water soluble, reactive NHS esters for easy conjugation to biomolecules containing aliphatic amino groups.

- Conjugations are carried out under mild conditions and are complete within one hour
- Dyes are packaged in premeasured amounts and foil sealed to ensure consistent labelings

NOTE:
For complete CyDye Menu, see Fishersci.com

ORDERING INFORMATION:
Antibody kits contain all reagents required for 2 × 1mg reactions. Monoclonal antibody kits contain all reagents required for 2 × 0.1mg reactions.

Description	Mfr. No.	Cat. No.	Each
Cy3 Ab Labeling Kit	PA33000	**45-000-724**	326.55
Cy3 mAb Labeling Kit	PA33001	**45-000-725**	326.55

Thermo Scientific™ DyLight™ Fluor Antibody Labeling Kits

Label and purify antibodies in one hour for high-performance fluorescent assays

Two convenient kit formats are available to accommodate varied labeling requirements. The DyLight Antibody Labeling Kits contain all necessary components to perform three separate labeling reactions using 1mg of IgG or similar quantities of other proteins. The DyLight Microscale Antibody Labeling Kits contain all the necessary components to perform five separate labeling reactions using 100µg of IgG. The labeling kits use high-performance spin desalting columns to provide exceptional dye removal and antibody recovery.

- Label and purify protein in approximately one hour
- Amine-reactive dyes; label virtually any protein

DyLight 488 Antibody Labeling Microscale Kit

INCLUDES:

Antibody Labeling Kits

- DyLight NHS Ester, 3 vials
- Reaction buffer, 1mL
- Spin columns, 6 each
- Microcentrifuge collection tubes, 12 each
- Purification resin, 5mL

Microscale Kits

- DyLight NHS Ester, 5 vials
- Reaction buffer, 1mL
- Spin columns, 5 each
- Microcentrifuge collection tubes, 10 each
- Purification resin, 5mL

NOTE:
For complete menu of Dylight Antibody Labeling Kits, see Fishersci.com

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Thermo Scientific DyLight 405 Antibody Labeling Kit	3-rxn kit	Labeling and purifying 3 × 1mg (2mg/mL) of IgG or other proteins	Multi-component kit with proprietary blue fluorescent dye	**PI-53020**	369.25
Thermo Scientific DyLight 405 Antibody Labeling Microscale Kit	5-rxn kit	Labeling and purifying 5 × 100µg (1mg/mL) of IgG or other proteins	Multi-component kit with proprietary blue fluorescent dye	**PI-53021**	346.04

Antibody Purification

GE Healthcare GammaBind™ Plus Sepharose™ Medium

Engineered for better binding to rat and mouse IgG subclasses

- Recombinant Protein G type 3 coupled to Sepharose CL-6B for easy binding and fast separation
- More enhanced binding capabilities than GammaBind G at both laboratory and process scale
- Yields up to 18mg/mL mouse IgG
- Binds to all IgG subclasses from human, mouse, and rat; binds total IgG from guinea pig, rabbit, goat, cow, sheep, and horse

STORAGE:
PBS pH 7, 20% ethanol (>20mg human IgG/mL) at 2° to 8°C

Quantity	Mfr. No.	Cat. No.	Each
5mL	17-0886-01	**45-000-160**	638.40
25mL	17-0886-02	**45-000-161**	2049.60

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

GE Healthcare HiTrap™ MabSelect™ Prepacked Columns

For fast purification of monoclonal antibodies (Mabs) from large sample volumes

Prepacked HiTrap columns for process development, screening of purification conditions and small-scale purification of Mabs. MabSelect media are suited for the high flowrates and pressures required when scaling up.

- Oriented coupling of recombinant Protein A ligand to the agarose matrix via an engineered C-terminal cysteine increases IgG binding capacity over other protein A media
- High capacity, low ligand leakage and high-flow base matrix allow purification of Mabs at process scale
- Fewer regulatory concerns due to the total absence of mammalian culture in the ligand production and purification
- Designed for use with a syringe, a peristaltic pump or a chromatography system

MabSelect

- Allows at least five times higher flowrates than conventional cross-linked agarose of similar porosity
- Recombinant Protein A ligand promotes specificity of binding to Fc region of IgG; permits one-step purification

MabSelect Xtra™

- Same recombinant protein A ligand as MabSelect, but with a smaller particle size and greater porosity, for increased dynamic binding capacity
- Allows binding from samples with high expression levels of the monoclonal antibody
- Lowers overall production cost due to the possibility of processing concentrated feedstocks in fewer batches

MabSelect SuRe™ (Superior Resistance)

- Akali-tolerant protein A-derived ligand allows the use of up to 0.5M NaOH for cleaning-in-place (CIP)
- Permits significant cost savings and extension of cycles in regular production

STORAGE: Store at 2° to 8°C in 20% ethanol.

NOTE:
GE Healthcare offers a variety of media for purification and Isolation of antibodies. For a complete menu of products available, see fishersci.com.

Specifications	
MabSelect	
Binding Capacity	≥30mg human IgG/mL at 2.4 min. residence time
Particle Size	85µm
Max. Flowrate	4mL/min. for 1mL; 20mL/min. for 5mL
pH Stability	3 to 10 long-term, 2 to 12 cleaning-in-place
MabSelect Xtra	
Binding Capacity	≥40mg human IgG/mL at 2.4 min. residence time
Particle Size	75µm
Max. Flowrate	4mL/min. for 1mL; 20mL/min. for 5mL
pH Stability	3 to 10 long-term, 2 to 12 cleaning-in-place
MabSelect SuRe	
Binding Capacity	≥30mg human IgG/mL at 2.4 min. residence time
Particle Size	85µm
Max. Flowrate	4mL/min. for 1mL; 20mL/min. for 5mL
pH Stablity	3 to 12 long-term, 2 to 14 cleaning-in-place

Quantity	Mfr. No.	Cat. No.	Each
MabSelect			
5 × 1mL	28-4082-53	**45-001-462**	662.55
5 × 5mL	28-4082-56	**45-001-464**	2580.90
MabSelect Xtra			
5 × 5mL	28-4082-61	**45-001-467**	2580.90
MabSelect SuRe			
5 × 1mL	11-0034-93	**45-000-008**	928.20
1 × 5mL	11-0034-94	**45-000-009**	866.25
5 × 5mL	11-0034-95	**45-000-010**	3628.80

Thermo Scientific™ Pierce™ Imject™ Maleimide-Activated BSA and Kit

Cysteine-reactive BSA for immunogen preparation with sulfhydryl peptides

Purified, carrier-grade BSA is rendered sulfhydryl-reactive by chemical modification with Sulfo-SMCC crosslinker, and the resulting maleimide-activated protein is then stabilized and lyophilized in phosphate buffer. Maleimide groups form covalent crosslinks with sulfhydryl (-SH) moieties on cysteine residues of peptides and other thiol-containing haptens. Several antigen molecules can be conjugated to each BSA molecule to increase their immunogenicity and likelihood of eliciting immunized animals to produce high-titer antisera to the epitopes of interest. Select from among several package sizes of activated BSA protein, or choose the complete conjugation kit that includes optimized buffers and trouble-free spin desalting columns.

INCLUDES:
Kit contains stabilized, lyophilized Maleimide-Activated BSA (in PBS with stabilizer), buffers and desalting columns to easily prepare ready-to-use immunogens for immunization.

Description	Quantity	Mfr. No.	Cat. No.	Each
Imject Maleimide Activated BSA Spin Kit	5 × 2mg kit	77667	**PI-77667**	417.78
Imject Maleimide Activated Bovine Serum Albumin	2mg	77116	**PI-77116**	87.57
Imject Maleimide Activated Bovine Serum Albumin	10mg	77115	**PI-77115**	330.22

Thermo Scientific™ Pierce™ Imject™ Maleimide-Activated mcKLH and Kit

Cysteine-reactive KLH for immunogen preparation with sulfhydryl peptides

The high-quality mariculture KLH is rendered sulfhydryl-reactive by chemical modification with Sulfo-SMCC crosslinker, and the resulting maleimide-activated protein is then stabilized and lyophilized in phosphate buffer. Maleimide groups form covalent crosslinks with sulfhydryl (-SH) moieties on cysteine residues of peptides and other thiol-containing haptens. Numerous antigen molecules can be conjugated to each KLH molecule to make them highly immunogenic and increase the likelihood of eliciting immunized animals to produce high-titer antisera to the epitopes of interest. Select from among several package sizes of activated KLH protein, or choose the complete conjugation kit that includes optimized buffers and trouble-free spin desalting columns.

NOTE:
For complete menu of kit sizes, see Fishersci.com

Description	Quantity	Mfr. No.	Cat. No.	Each
Imject Maleimide Activated mcKLH Spin Kit	5 × 2mg kit	77666	**PI-77666**	424.11
Imject Maleimide Activated Mariculture KLH	2mg	77606	**PI-77606**	71.74

Thermo Scientific™ Protein Resins and Reagents

Unique immunoglobulin binding specificity:

- Binds to kappa light chains on antibodies from a wide range of species without interfering with antigen-binding sites
- Binds to all classes of Ig (e.g., IgG, IgM, IgA, IgE and IgD)
- Binds single-chain variable fragments (ScFv)
- Does not bind bovine, goat or sheep Igs
- Does not bind to bovine antibodies, making it ideal for purification of mouse IgG from cell culture supplemented with bovine serum
- Efficient and leach-resistant immobilization chemistries provide for high capacity and purity for antibody purification
- Available in regular and high binding-capacity ("Plus") formats
- Offered as resin slurries, chromatography cartridges, and Thermo Scientific NAb Spin Columns and Purification Kits

NOTE:
For a complete menu of resins for affinity chromatography, please see fishersci.com.

Description	Quantity	Mfr. No.	Cat. No.	Each
Protein A/G				
Pierce Protein A/G Agarose	3mL	20421	**PI-20421**	374.53
Protein G				
Pierce Protein G Agarose	2mL	20398	**PI-20398**	247.93
Protein L				
Pierce Protein L Agarose	2mL	20510	**PI-20510**	285.91

Immunoassays

GE™ Healthcare Biotrak Enzyme Assays

Matrix Metalloproteinase ELISA and Activity Assays

- Both ELISA and Activity Assays available
- Convenient, plate-based colorimetric format
- Many normal physiological and pathological processes involve breakdown and remodeling of the extracellular matrix. This degradation is due to the matrix metalloproteinase (MMP) family of enzymes. Biotrak ELISAs measure MMP protein levels in human serum, plasma, and cell culture samples; the Biotrak MMP Activity Assays measure the amount of active MMP enzyme present in complex biological samples in a convenient, plate-based method that is both sensitive and specific
- A diverse array of mammalian cells oxidizes arachidonic acid to physiologically active compounds including thromboxanes, prostacyclin, prostaglandins, and leukotrienes. Biotrak Eicosanoid Assays provide researchers with a range of technologies to measure many of these important analytes using simple microplate- or tube-based protocols

Eicosanoid Assays

- Prostaglandin, thromboxane, and leukotriene assays
- Choice of isotopic or non-isotopic methods for most analytes
- Simple, microplate or tube based protocols
- Most protocols take less than one day
- Ten-plate packs of Prostaglandin E2 and Leukotriene B4 available
- A diverse array of mammalian cells oxidizes arachidonic acid to physiologically active compounds including thromboxanes, prostacyclin, prostaglandins, and leukotrienes. Biotrak Eicosanoid Assays provide researchers with a range of technologies to measure many of these important analytes using simple microplate- or tube-based protocols

NOTE:
Fisher Scientific offers a comprehensive offering of ELISA assays. Please see Fishersci.com for a complete menu of available offerings.

Description	Sensitivity	Required Time	Mfr. No.	Cat. No.	Each
ELISA					
Human MMP-1 ELISA	1.7ng/mL	5.5 hrs.	RPN2610	**45-000-899**	801.15
Human MMP-13 ELISA	0.032ng/mL	3.5 hrs.	RPN2621	**45-001-179**	801.15
Human TIMP-1 ELISA	1.25ng/mL	4.5 hrs.	RPN2611	**45-000-900**	801.15
Activity Assays					
MMP-9	0.125ng/mL	Overnight	RPN2634	**45-001-248**	967.05
Eicosanoid Assays (EIA)					
Leukotriene C4/D4/E4	10pg/mL (0.5pg/well)	5.5 hrs.	RPN224	**45-000-891**	676.26
Prostaglandin E2	16pg/mL, 0.8pg/well	5 hrs.	RPN222	**45-000-887**	576.45

ON THE WEB...

For a complete line of antibody purification resins

Visit www.fishersci.com and search for Antibody Purification Resins

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Incubators

CO_2

Thermo Scientific™ Forma™ Series II 3110 Water-Jacketed CO_2 Incubators

Choice of TC or IR sensors

Performance

- HEPA air filtration system maintains Class 100 air quality
- Enviro-Scan™ microprocessor control
- Setpoints and calibration: Temperature, overtemperature, CO_2, O_2
- Audio/visual alarms with alarm silence
- Audible On/Off, Access Code, HEPA Filter Change Reminder, RS-485 Interface, Automatic Tank Selector, Audible/Visual Alarms, Display Temp/RH, Display CO_2/O_2

Construction

- Durable triple-wall cabinet construction ensures optimal temperature uniformity
- Exclusive, heated dual pane inner glass door minimizes condensation, enables faster temperature recovery
- CFC-free foam insulated outer door (field-reversible) with magnetic gasket
- Alarm contacts (NO, NC, COM)

Forma™ Series II 3110 Incubators

Specifications	
Capacity	6.5 cu. ft. (184L)
CO_2 Concentration Range	0 to 20%
O_2 Range	1 to 20%
Relative Humidity	Ambient to 95% at 37°C
Humidity System	3L stainless-steel pan
Temperature Range	Ambient +5°C to 55°C
Temperature Uniformity	±0.2°C at 37°C
Chamber	Polished stainless-steel interior with coved corners
Interior D x W x H	20.0 × 21.3 × 26.8" (50.8 × 54.1 × 68.1cm)
Shelving	Stainless steel
Exterior L x W x H	25 × 26.0 × 39.5" (63.5 × 66.0 × 110.3cm)
Port(s)	Chamber thru-wall access port with filter; RS-485 interface (optional)
Net Weight	265 lb. (120.2kg)
Shipping Weight	324 lb. (147kg)

ORDERING INFORMATION:
Choice of CO_2 sensors, reversible door swings and options including available oxygen control, relative humidity monitoring, antimicrobial copper interiors, datalogging and IQ/OQ documentation kits.

CO_2 Sensor	O_2 Sensor	Electrical Requirements	Mfr. No.	Cat. No.	Each
TC	NA	115V 50/60Hz	3110	**13-998-074**	7440.00
TC	NA	230V 50/60Hz	3111	**13-998-075**	7439.62
IR	NA	115V 50/60Hz	3120	**13-998-076**	8536.12
IR	NA	230V 50/60Hz	3121	**13-998-077**	8728.97
TC	Fuel Cell	115V 50/60Hz	3130	**13-998-078**	8660.00
TC	Fuel Cell	230V 50/60Hz	3131	**13-998-079**	8658.00
IR	Fuel Cell	115V 50/60Hz	3140	**13-998-080**	9876.08
IR	Fuel Cell	230V 50/60Hz	3141	**13-998-081**	9805.31

Thermo Scientific™ Forma™ Steri-Cult™ CO_2 Incubators

Stackable units offer contamination control for high-volume culturing conditions

Performance

- Integral 140°C high-temperature sterilization function, 14 hr. duration
- Optimized airflow system will not interfere with samples or incubator function
- Optional built-in VOC filtration system removes volatile organic vapors
- In-chamber HEPA air filtration continuously removes particulates for Class 100 quality conditions
- Audible alarm activates if outer door is opened during the cycle or if temperature reaches 60°C (140°F) or greater
- Access code prevents accidental initiation of the cycle

13-998-092

Specifications	
CO_2 Concentration Range	0 to 20%
CO_2 Concentration Control	±0.1% at 5%
Temperature Range	+5°C above ambient to 50°C
Temperature Uniformity	±0.2°C at 37°C
Sensor	Interferometer IR
Humidity System	Ultrasonic nebulizer, 1 gal. (3.8L) reservoir capacity
Relative Humidity Range	Ambient to 95%, controlled
Relative Humidity Control	±2.0%
Chamber	Stainless steel
No. of Chambers	1
No. of Shelves	5

Microprocessor Control

- Messaging center clearly displays temperature, CO_2 and RH
- Audible/visual alarms with silence button
- Setpoints for temperature, overtemperature, CO_2 and RH
- Audible ON/OFF, access code, HEPA filter change reminder, remote alarm contacts

Construction

- Coved-corner, polished stainless-steel interior
- Sturdy shelves and supports can be removed without tools
- Microbial filters on gas inlet, sample port and water fill bottle lid
- Inner door gasket can be removed for cleaning, ensures tight seal

CERTIFICATIONS: UL, cUL, CE

Capacity	Interior D x W x H	Net Weight	Shipping Weight	Electrical Requirements	Mfr. No.	Cat. No.	Each
8.2 cu. ft. (232.2L)	20.6 × 20.8 × 32.8" (52.3 × 52.8 × 83.8cm)	330 lb. (149.7kg)	400 lb. (181.4kg)	115V 60Hz	3307	**13-998-090**	14,210.00
8.2 cu. ft. (232.2L)	20.6 × 20.8 × 32.8" (52.3 × 52.8 × 83.8cm)	330 lb. (149.7kg)	400 lb. (181.4kg)	230V 50/60Hz	3308	**13-998-091**	14,210.00
11.4 cu. ft. (322.8L)	20.6 × 28.8 × 32.8" (52.3 × 73.2 × 83.8cm)	410 lb. (186kg)	480 lb. (217.7kg)	115V 60Hz	3310	**13-998-092**	15,793.04
11.4 cu. ft (322.8L).	20.6 × 28.8 × 32.8" (52.3 × 73.2 × 83.8cm)	410 lb. (186kg)	480 lb. (217.7kg)	230V 50/60Hz	3311	**13-998-093**	15,793.04

Thermo Scientific™ Forma™ Steri-Cycle™ CO_2 Incubators

Unique in-chamber HEPA air filtration system protects against unwanted airborne contaminants

Precise direct-heat temperature control with choice of TC (thermal conductivity) or IR (infrared) sensor and convenient high-temperature decontamination cycle.

Thermo Scientific Forma Steri-Cycle Series

Performance

- Approximate cycle length: 14 hr.
- Optimized airflow system will not interfere with samples or incubator function
- Optional built-in VOC filtration system removes volatile organic vapors
- In-chamber HEPA air filtration continuously removes particulates for Class 100 quality conditions
- Audible alarm activates if outer door is opened during the cycle or if temperature reaches 60°C (140°F) or greater
- Heat-resistant TC sensor can be left in place during the cycle
- HEPA filter and IR sensor are easily removed
- Access code prevents accidental initiation of the cycle

Microprocessor Control

- Messaging center clearly displays temperature, CO_2 and (optional) RH parameters
- Audio/visual alarms with silence button
- Setpoints for temperature, overtemperature, CO_2
- Audible ON/OFF, access code, HEPA filter change reminder, remote alarm contacts

Construction

- Polished stainless-steel interior with coved corners is easy to clean
- Sturdy stainless-steel shelves and supports can be removed without tools
- Microbiological filters on gas inlet and sample ports are easily accessible
- Removable inner door gasket adjusts continually to ensure tight seal

ORDERING INFORMATION:
Options include: choice of CO_2 sensors, reversible door swings, relative humidity monitoring, antimicrobial copper interior, automatic gas tank switchers, datalogging capability, IQ/OQ documentation kits.

CERTIFICATIONS: UL, cUL, CE

CO_2 Sensor	Electrical Requirements	Mfr. No.	Cat. No.	Each
TC	115V 50/60Hz	370	**13-998-086**	7270.00
TC	230V 50/60Hz, 4.4A	371	**13-998-087**	7267.07
IR	115V 50/60Hz	380	**13-998-088**	8496.00
IR	230V 50/60Hz, 4.4A	381	**13-998-089**	8506.15

Specifications	
Capacity	6.5 cu. ft. (184L)
CO_2 Concentration Range	0 to 20%
Temperature Range	Ambient +5°C to +50°C
Temperature Uniformity	±0.3°C at 37°C
Humidity System	3L stainless-steel pan
Relative Humidity	Ambient to 95% at 37°C
Chamber	Stainless steel
Interior D × W × H	20.0 × 21.3 × 26.8" (50.8 × 54.1 × 68.1cm)
Shelving	Stainless steel
Exterior L × W × H	25 × 26.3 × 39.5" (63.5 × 66.8 × 100.3cm)
Net Weight	260 lb. (117.9kg)
Shipping Weight	315 lb. (142.9 kg)

SETTING UP A NEW LAB CAN BE OVERWHELMING. LET US HELP.

The Fisher Scientific New Lab Start-Up Program is an effective, economical way to obtain exclusive money-saving offers on the supplies you need. We've teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products for your new lab. Visit **www.fishersci.com/newlab** to apply today!

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Prices subject to change.

Thermo Scientific™ Heracell™ 150i and 240i CO_2 Incubators with Copper Chambers

Touch screen operating simplicity with exclusive 100% pure copper interior chamber

Feature innovative ContraCon moist heat decontamination technology that ensures worry-free cleaning and operation. designed to provide optimal growth conditions and deliver superior parameter recovery rates.

Thermo Scientific Heracell Series

Specifications	
Type	Air jacketed temperature control
Temperature Range	Ambient +3°C to +55°C
Temperature Deviation	±0.1°C/±0.5°C
Ambient Temperature Range	+18°C to +33°C
CO_2 Sensor:	TC or IR sensor
CO_2 Concentration Range	0% to 20%
CO_2 Control Accuracy	±0.1% at 5%
Optional O_2	Zirconium sensor; 1 to 21% or 5 to 90% by volume
Relative Humidity Control	95% ±3%
Decontamination Phase (all surfaces)†	90°C/9 hr.
Display	iCAN touchscreen
Door[s]	Metal exterior door; glass inner door with latch
Port[s]	1.6" (4.2cm) access

† ContraCon decontamination routine verified by accredited laboratories

iCAN™ Touchscreen Control

- Door-mounted for easy accessibility and viewing
- Convenient on-screen prompts for simple navigation
- Choice of languages
- Changes in culture environment visible on screen logs and usage recording; visual monitor alarm

TC or IR CO_2 Sensor

- Standard thermal conductivity (TC) sensor features accurate gas sensor technology
- Infrared (IR) sensor features exclusive split-beam technology for precise CO_2 control in fluctuating conditions

Rapid Humidity Recovery

- Large, directly heated water reservoir
- Recovery up to five times faster than conventional water pans
- Water level alarm

Chamber Volume	Interior D × W × H	Exterior L × W × H	Sensor	Electrical Requirements	Amperage	Mfr. No.	Cat. No.	Each
Heracell 150i								
5.3 cu.ft. × 2 (150L × 2)†	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)†	30.8 × 25.1 × 24.1" per chamber (78.2 × 63.7 × 86.7cm per chamber)†	TCD	120V 50/60Hz	5A; 5.2A with ContraCon; per chamber	50116050	**13-998-052**	16,489.14
5.3 cu.ft. (150L)	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 24.1" (78.2 × 63.7 × 86.7cm)	TCD	120V 50/60Hz	5A; 5.2A with ContraCon	51026283	**13-998-034**	8030.00
5.3 cu.ft. (150L)	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 24.1" (78.2 × 63.7 × 86.7cm)	IR	120V 50/60Hz	5A; 5.2A with ContraCon	51026534	**13-998-036**	9145.06
Heracell 240i								
8.4 cu.ft. (240L)	23.0 × 23.9 × 26.4" (583 × 607 × 670mm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	TCD	120V 50/60Hz	5.3A; 5.4A with ContraCon	51026332	**13-998-044**	12,403.12
8.4 cu.ft. (240L)	23.0 × 23.9 × 26.4" (583 × 607 × 670mm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	IR	120V 50/60Hz	5.3A; 5.4A with ContraCon	51026419	**13-998-046**	13,560.06

† Dual chamber unit; capacity and dimension are per chamber

results delivering solutions

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Thermo Scientific™ Heracell™ 150i and 240i CO_2 Incubators with Stainless-Steel Chambers

Touch screen operating simplicity with easy to clean stainless-steel chamber

Feature innovative ContraCon moist heat decontamination technology that ensures worry-free cleaning and operation. These incubators are designed to provide optimal growth conditions and deliver superior parameter recovery rates.

13-998-033

iCAN™ Touchscreen Control

- Door-mounted for easy accessibility and viewing
- Convenient on-screen prompts for navigation
- Choice of languages
- Changes in culture environment visible on screen logs and usage recording; visual monitor alarm

TC or IR CO_2 Sensor

- Standard thermal conductivity (TC) sensor features accurate gas sensor technology
- Infrared (IR) sensor features exclusive split-beam technology for precise CO_2 control in fluctuating temperature and humidity conditions

Rapid Humidity Recovery

- Large, directly heated water reservoir
- Recovery up to five times faster than conventional water pans
- Water level alarm

O_2 Control with Auto-Cal

- Two O_2 control ranges precisely control oxygen concentration
- Ideal for applications requiring decreased or increased O_2 conditions

Specifications	
Type	Air jacketed temperature control
Temperature Range	Ambient +3°C to +55°C
Temperature Deviation	±0.1°C/±0.5°C
Ambient Temperature Range	+18°C to +33°C
CO_2 Sensor:	TC or IR sensor
CO_2 Concentration Range	0% to 20%
CO_2 Control Accuracy	±0.1% at 5%
Optional O_2	Zirconium sensor; 1 to 21% or 5 to 90% by volume
Relative Humidity Control	95% ±3%
Decontamination Phase (all surfaces)†	90°C/9 hr.
Display	iCAN touchscreen
Door[s]	Metal exterior door; glass inner door with latch
Port[s]	1.6" (4.2cm) access

† ContraCon decontamination routine verified by accredited laboratories

Chamber Volume	Interior D × W × H	Exterior L × W × H	Sensor	Electrical Requirements	Amperage	Mfr. No.	Cat. No.	Each
Heracell 150i								
5.3 cu.ft. × 2 (150L × 2)†	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)†	30.8 × 25.1 × 24.1" per chamber (78.2 × 63.7 × 86.7cm per chamber)†	TCD	120V 50/60Hz	5A; 5.2A with ContraCon; per chamber	50116048	**13-998-051**	13,905.03
5.3 cu.ft. (150L)	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 24.1" (78.2 × 63.7 × 86.7cm)	TCD	120V 50/60Hz	5A; 5.2A with ContraCon	51026282	**13-998-033**	6679.11
5.3 cu.ft. (150L)	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 24.1" (78.2 × 63.7 × 86.7cm)	IR	120V 50/60Hz	5A; 5.2A with ContraCon	51026406	**13-998-035**	7785.04
Heracell 240i								
8.4 cu.ft. (240L)	23.0 × 23.9 × 26.4" (583 × 607 × 670mm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	TCD	120V 50/60Hz	5.3A; 5.4A with ContraCon	51026331	**13-998-043**	11,043.12
8.4 cu.ft. (240L)	23.0 × 23.9 × 26.4" (583 × 607 × 670mm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	IR	120V 50/60Hz	5.3A; 5.4A with ContraCon	51026420	**13-998-045**	12,149.09

† Dual chamber unit; capacity and dimension are per chamber

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Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

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Prices subject to change.

Thermo Scientific™ Heracell™ 150i and 240i Tri-Gas Incubators

Choice of noncorrosive stainless steel or 100% pure copper

Thermo Scientific Heracell i tri-gas incubators feature innovative ContraCon moist heat decontamination technology that ensures worry-free cleaning and operation. These incubators are designed to provide optimal growth conditions and deliver superior parameter recovery rates.

Heracell 150i Tri-Gas Incubator

iCAN™ Touchscreen Control

- Door-mounted for easy accessibility and viewing
- Convenient on-screen user prompts for simplified measurement and control navigation
- Choice of languages
- Changes in culture environment visible on screen logs and usage recording
- Visual monitor alarm

TC or IR CO_2 Sensor

- Standard thermal conductivity (TC) sensor features accurate gas sensor technology
- Infrared (IR) sensor features exclusive split-beam technology for precise CO_2 control in fluctuating temperature and humidity conditions

Rapid Humidity Recovery

- Large, directly heated water reservoir
- Recovery times are up to five times faster than conventional water pans
- Water level alarm with audible and visual alerts

Optional O_2 Control with Auto-Cal

- Two O_2 control ranges precisely control oxygen concentration
- Ideal for applications requiring decreased or increased O_2 conditions
- Zirconium Oxide sensor

Specifications	
Type	Air jacketed temperature control
Temperature Range	Ambient +3°C to +55°C
Temperature Deviation	±0.1°C/±0.5°C
Ambient Temperature Range	+18°C to +33°C
CO_2 Sensor	TC or IR sensor
CO_2 Concentration Range	0% to 20%
CO_2 Control Accuracy	±0.1% at 5%
Optional O_2	1 to 21%
Relative Humidity Control	95% ±3%
Decontamination Phase (all surfaces)†	90°C/9 hr.

† ContraCon decontamination routine verified by accredited laboratories

Chamber Volume	Chamber Material	O_2 Control	Sensor	Interior D × W × H	Exterior L × W × H	No. of Shelves	Mfr. No.	Cat. No.	Each
Heracell 150i									
5.3 cu.ft. (150L)	Stainless steel	1 to 21%	TCD	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 34" (78.2 × 63.7 × 86.7cm)	3/10	51026410	**13-998-037**	9460.00
5.3 cu.ft. (150L)	Solid copper	1 to 21%	TCD	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 34" (78.2 × 63.7 × 86.7cm)	3/10	51026408	**13-998-038**	10,810.09
5.3 cu.ft. (150L)	Stainless steel	5 to 90%	TCD	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 34" (78.2 × 63.7 × 86.7cm)	3/10	51026529	**13-998-041**	9399.03
5.3 cu.ft. (150L)	Solid copper	5 to 90%	TCD	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 34" (78.2 × 63.7 × 86.7cm)	3/10	51026536	**13-998-042**	10,891.05
5.3 cu.ft. (150L)	Stainless steel	1 to 21%	IR	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 34" (78.2 × 63.7 × 86.7cm)	3/10	51026402	**13-998-039**	10,556.12
5.3 cu.ft. (150L)	Solid copper	1 to 21%	IR	20.9 × 18.5 × 23.9" (530 × 470 × 607mm)	30.8 × 25.1 × 34" (78.2 × 63.7 × 86.7cm)	3/10	51026537	**13-998-040**	12,078.04
Heracell 240i									
8.4 cu.ft. (240L)	Stainless steel	1 to 21%	TCD	23.0 × 23.9 × 26.4" (583 × 607 × 670mm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	6/16 half width	51026423	**13-998-047**	14,280.00
8.4 cu.ft. (240L)	Solid copper	1 to 21%	TCD	23.0 × 23.9 × 26.4" (583 × 607 × 670mm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	6/16 half width (optional)	51026422	**13-998-048**	15,910.00
8.4 cu.ft. (240L)	Stainless steel	1 to 21%	IR	23.0 × 23.9 × 26.4" (583 × 607 × 670cm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	6/16 half width	51026556	**13-998-049**	15,428.11
8.4 cu.ft. (240L)	Solid copper	1 to 21%	IR	23.0 × 23.9 × 26.4" (583 × 607 × 670cm)	32.8 × 30.7 × 36.8" (83.4 × 78.0 × 93.4cm)	6/16 half width (optional)	51026533	**13-998-050**	17,093.00

Bacharach™ Fyrite™ CO_2 or O_2 Analyzer Refill Kits

Include two bottles of fluid, top gasket screws and filtering material

- 10-884-6 consists of three bottles of fluid only

Gas	Range	Mfr. No.	Cat. No.	Each
CO_2	0–20%	11 7047	**10-884-5**	123.50
CO_2	0–7.6%	10 5100	**10-884-6**	85.80
O_2	0–21%	11 7050	**10-884-15**	133.80

10-884-15

Bacharach™ Fyrite™ CO_2 or O_2 Analyzers

For CO_2 and O_2 analysis with accuracy of ±0.5° of reading

- Accurate readings up to 453°C (850°F) in about 30 seconds
- Level of fluid column shows %CO_2
- With fluid, aspirator, filter and carrying case

Gas	Range	Mfr. No.	Cat. No.	Each
CO_2	0–20%	10 5000	**10-884**	636.54
CO_2	0–7.6%	10 5053	**10-884-1**	681.35
O_2	0–21%	10 5011	**10-884-10**	598.95

10-884

Fisher Scientific™ Isotemp™ CO_2 Incubators

6.5 cu. ft. (184L) water-jacketed and direct-heat models with T/C or IR sensors

Selection, high capacity, heavy-duty design

- Choice of Water-Jacketed (WJ) and Direct Heat (DH) technology
- Flexibility you can depend on for growing cells
- Select Thermal Conductivity (T/C) or Infrared (IR) sensors to serve your applications
- High-capacity 6.5 cu. ft. (184L) chamber
- Heavy-duty stainless-steel shelves support a full load of samples
- Precise temperature control and stability of all culture parameters

Peace of mind

- Provide stable temperature, humidity and CO_2 level for maximum cell growth
- Low and high CO_2 alarms, plus power interruption and temperature deviation alarms

Ease of Use

- Easy-to-clean polished stainless-steel interior with coved corners
- Shelves and supports are easily removed without tools
- Microbiological filters protect gas inlet and sample port
- Easy-to-use display and alarm settings

Water-Jacketed (WJ) models surround cells with 12 gallons of 37°C water

- Triple wall construction and large water volume provide superb temperature stability and heat-loss protection
- Hold temperature for extended periods — critical during power failures
- Fast temperature recovery keeps culture conditions very stable

Direct-Heat (DH) models let you culture with confidence

- Heating elements surround all sides of chamber wall
- Fiberglass insulation aids uniformity and fast recovery times
- Directed airflow keeps cells at optimum growth temperature
- Inner door gasket is removable

Fisher Scientific Isotemp Series

ORDERING INFORMATION: Dimensions: 25L × 26.3W × 39.5"H (63.5 × 66.8 × 100.3cm). For 115V.

WARRANTY: One year parts and labor on incubator

Sensor	Cat. No.	Each
Water-Jacketed (WJ) Models		
T/C	**13-255-25**	6039.07
IR	**13-255-26**	7166.09
Direct-Heat (DH) Models		
T/C	**13-255-27**	6040.00
IR	**13-255-28**	7166.09

Thermo Scientific™ Replacement HEPA Filters

For Forma™ and Napco™ Series 8000 CO_2 incubators

HEPA Filters

- 99.97% filtering at 0.3µm
- Fit on all Forma Series II 3110, Steri-Cycle and Forma 310 Series (with HEPA filtration system option) incubators
- Main chamber filter is available as a stand-alone or packaged in a group with the other chamber in-line filters

Decontamination Kits

- Consist of difficult-to-clean chamber filters and gaskets (except door) and tubing
- Reduce downtime and labor spent on decontamination

HEPA Filter

Description	For Use with	Mfr. No.	Cat. No.	Each
HEPA Filter 4-Pack	All 8000 Series models	760209	**15-497-023**	240.72

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Dry Baths

Boekel™ TropiCooler™ Benchtop Hot/Cold Block Incubator

Store frozen restriction enzymes and perform ligations and DNA hybridizations from the bench

- Temperature range: -19° to +69°C (-2° to +156°F)
- Easy temperature selection (settings in 1° increments) and rapid equilibration time
- Digital microprocessor controls Peltier thermoelectric heating and cooling device for efficient, low-maintenance operation
- Dry heat and cold make unit an attractive alternative to ice buckets and water baths

ORDERING INFORMATION:
Dimensions: 11.75L × 9.75W × 7.25"H (29.8 × 24.8 × 18.4cm)
Weight, 13 lb. (6kg). For 115V 60Hz, 0.8A, 100w.

INCLUDES:
Two machined aluminum blocks, holding 14 microcentrifuge tubes (1.5mL size) each (additional block configurations available) and smoked acrylic plastic lid

05-450-7

Mfr. No.	Cat. No.	Each
260014	**05-450-7**	2880.00

Fisher Scientific™ Isotemp™ Digital and Analog Dry Bath Incubators

Provide controlled dry heat for a wide variety of clinical and general chemistry applications

Digital Dry Baths 11-715-125DQ, 11-715-145DQ

Choice of 1- to 6-block Analog Models, 2- or 4-block Digital Models.

- Exceptional temperature control and uniformity
- Temperature range of 5°C above ambient to 130°C
- Powder-coated steel body construction provides durability for demanding applications
- Compact design saves valuable bench space
- Choice of interchangeable heating blocks

Digital Dry Baths with Microprocessor Controller

- PID microprocessor control, digital temperature setting
- Just press up/down arrows to set temperature in 0.1° increments
- Effectively hold samples at constant, warm temperature
- 5°C above ambient to 130°C range; ±0.4° uniformity at 37°C; stability, ±0.2°C
- Bright LED display continuously shows actual temperature in °C
- Temperature probe in bottom of bath provides improved accuracy and control; free probe included
- Model 125DQ holds two heating blocks; Model 145DQ holds four heating blocks in 2 × 2 configuration

Analog Dry Baths with Dual-thermostat Controls

- Sloped control panel makes controls highly visible
- Dual bimetallic thermostat controls
- Stability is ±1.5°C, uniformity ±0.5°C at 37°C
- Use thermometer to read current temperature of blocks, then adjust control to reach desired setpoint
- Efficient design: operate at substantially lower external temperature than other models

ORDERING INFORMATION:
All models accept 2.91L × 3.75W × 2"H (7.4 × 9.5 × 5.1cm) blocks, sold separately.

INCLUDES:
Digital Models come with temperature probe, line cord and plug. Analog Models include high and low thermostat, power switch, pilot light, line cord and plug.

REQUIRES:
Heating blocks, sold separately, hold regular tubes, microcentrifuge tubes, square cuvets or microplates.

WARRANTY:
One year

CERTIFICATIONS:
Digital Models are CSA approved. Analog Models are UL listed.

[1]*International model*

No. of Blocks	Electrical Requirements	L × W × H	Shipping Weight	Cat. No.	Each
Digital Dry Baths					
2	120V 50/60Hz, 1.25A, 150w	14.44L × 8.69W × 3.31"H (36.1 × 22.1 × 9.1cm)	6 lb. (3kg)	**11-715-125DQ**	1013.00
4	120V 50/60Hz, 2.5A, 300w	14.22L × 10.81W × 3.31"H (36.1 × 27.4 × 9.1cm)	8 lb. (4kg)	**11-715-145DQ**	1346.00
Analog Dry Baths					
1	120V 50/60Hz, 0.83A, 100w	7.63L × 6.38W × 3.38"H (19.3 × 15.7 × 8.6cm)	5 lb. (2kg)	**11-718Q**	426.50
2	120V 50/60Hz, 1.25A, 150w	8.56L × 8.38W × 3.38"H (21.8 × 21.3 × 8.6cm)	6 lb. (3kg)	**11-718-2Q**	554.00
3	120V 50/60Hz, 1.67A, 200w	9.13L × 11.25W × 3.38"H (23.1 × 28.6 × 8.6cm)	8 lb. (4kg)	**11-718-4Q**	792.50
4	120V 50/60Hz, 2.5A, 300w	12.38L × 8.31W × 3.38"H (31.5 × 21.1 × 8.6cm)	8 lb. (4kg)	**11-718-6Q**	955.00
6	120V 50/60Hz, 3.33A, 400w	12.94L × 11.25W × 3.38"H (32.8 × 28.6 × 8.6cm)	10 lb. (5kg)	**11-718-8Q**	1306.00

Fisher Scientific™ Isotemp™ Heating Blocks

For Isotemp digital models 125DQ, 145DQ and analog dry-bath incubators

Choose from blocks that hold 6 to 25mm O.D. standard tubes, 15mL or 50mL conical-bottom tubes, microcentrifuge tubes.

Front: 11-718-9Q
Center: 11-715-313Q
Upper left: 11-718-22Q
Upper right: 11-715-305Q

- Solid aluminum construction
- Sample wells are shaped so that heat is evenly transmitted to all parts of the sample tube
- Shape also eliminates the temperature gradient that may invalidate tests

ORDERING INFORMATION:
Dimensions: 2.9L × 3.75W × 2"H (9.5 × 7.4 × 5.1cm).

WARRANTY:
One year

Tube Size	Tubes/Block	Cat. No.	Each
Regular Tubes			
6mm	30	**11-715-305Q**	123.00
10mm	24	**11-715-307Q**	128.00
12-13mm	22	**11-715-309Q**	194.50
15-16mm	12	**11-715-313Q**	220.50
20mm	8	**11-715-317Q**	127.00
25mm	6	**11-715-319Q**	134.30
Combination†	14	**11-718-22Q**	133.30
Conical-Bottom Tubes			
15mL	12	**11-473-70**	286.50
50mL	4	**11-473-71**	286.50
Microcentrifuge Tubes			
0.5mL	30	**11-718-23Q**	137.50
1.5mL	20	**11-718-9Q**	137.50
Square Cuvets			
12.5mm	12	**11-715-321Q**	293.50
Microtiter Plate			
Microtiter Plate‡	1	**11-718-32Q**	328.50

† Combination block has six 6mm, five 13mm, and three 25mm holes.
‡ Microtiter Plate Block occupies space of two blocks.

Eppendorf™ ThermoStat™ Plus Interchangeable Block Heater

Compact, benchtop thermostat accurately maintains tube, microplate and vial temperatures between -5° and +99°C

Ideal for molecular biology, enzymatic testing, cell technology, immunological testing and general lab applications.

05-400-210

- Program temperature and run times individually
- 10 different exchangeable thermoblocks
- For special applications, program and store up to four temperature levels and four time phases in succession
- Clear keypad controls with digital display simplify the process
- To operate, select temperature and then press START to activate the time function
- Temperature control is accurate to ±1°C between -5° and +45°C, ±2°C between 45° and 99°C
- Unit heats up at a rate of 4°C/min.
- Cools down at 2°C/min. between 99° and 25°C, 1°C/min. between +25°C and -5°C
- Use accessory thermoblocks to incubate Eppendorf 15 or 50mL conical tubes or microplates
- For Erlenmeyer beakers and vials up to 60mm in height, use the CombiBox Universal Box

ORDERING INFORMATION:

- Dimensions: 9.875L × 8.75W × 4.75"H (25 × 22 × 12cm)
- Weight: 11 lb. (5kg)
- RS-232-C interface
- Electrical requirements: 100–240V 50/60Hz, 75w

Description	Mfr. No.	Cat. No.	Each
ThermoStat, without block	22 67 020-4	**05-400-210**	2761.50

ON THE WEB...

Looking for Accessories for Incubators?

Visit www.fishersci.com and search for Incubators

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Eppendorf™ Exchangeable Blocks and Accessories for Thermomixer™ R and ThermoStat™ Plus

Ensure precise fit for common lab tubes

These exchangeable thermoblocks for the Thermomixer R and ThermoStat provide excellent flexibility. The range of potential applications is significantly expanded due to the support for slides and microarrays, in addition to a broad range of tube sizes.

- Shielded thermoblocks are contact-safe
- Efficient exchange simplifies operation
- Tubes are visible during operation and easily accessible

CombiBox

- Exclusively for ThermoStat Plus
- Provides universal temperature control
- For flasks and beakers with height of up to 60mm

ThermoStat Plus and Thermomixer R Blocks

Accommodates	Max. Temperature	Max. Speed	Mfr.No.	Cat. No.	Each
24 × 0.5mL micro test tubes	99°C	1500rpm	022 670 506	**05-400-202**	767.14
24 × 1.5mL micro test tubes	99°C	1400rpm	022 670 522	**05-400-203**	762.20
24 × 2.0mL micro test tubes	99°C	1400rpm	022 670 549	**05-400-204**	759.54
PCR and deepwell plate, MTPs	70°C	1400rpm	022 670 565	**05-400-35**	1004.30
24 test tubes, diameter of 11 to 11.9mm, height of 30 to 76mm	99°C	1400rpm	022 670 581	**05-400-213**	858.41
8 × 15mL Falcon conical tubes	99°C	750rpm	022 670 531	**04-979-266**	773.69
4 × 50mL Falcon conical tubes	99°C	750rpm	022 670 514	**05-402-13**	758.73
24 × 1.5mL cryotubes, external dia. max 12.5mm, all base shapes	99°C	1400rpm	022 670 557	**05-402-16**	759.13
Four slides	70°C	1400rpm	022 670 590	**04-979-267**	1127.27
Adapter plate for 96 × 0.2mL PCR tubes and PCR plates	----	----	022 670 573	**05-400-212**	331.89
All tube types (CombiBox)[1]	95°C	----	022 670 603	**05-400-211**	964.08

[1] *CombiBox, for ThermoStat plus only*

Hybridization

Boekel Incubator Shaker II

Eliminates mess of shaking water baths and shakers placed inside conventional incubators

- Microprocessor-controlled digital temperature selector; independent analog safety thermostat
- Easy-to-read LCD readout accurate to 1°C
- Shaking speed adjusts from 8 to 25 strokes/min.
- Range: 5°C above ambient to 70°C; uniformity, ±1.0°C Accuracy: ±1.5°C at 65°C (no load); ±0.7°C at 65°C (dishes or bags)
- Gasket-sealed metal door; acrylic plastic see-through window
- Enameled steel exterior; polished aluminum interior

11-701-37

ORDERING INFORMATION:

- Chamber dimensions, 11.5D × 11.5W × 10.5"H (29 × 29 × 27cm)
- Outside dimensions, 14.5L × 12.5W × 16"H (36.8 × 31.7 × 40.6cm)
- Tray dimensions, 8L × 8.5W × 0.5"H (20.3 × 21.6 × 1.3cm)

INCLUDES:
Three trays

Electrical Requirements	Mfr. No.	Cat. No.	Each
115VAC, 230W	136400	**11-701-37**	3372.86

Boekel™ InSlide Out™ Hybridization Apparatus

Reduces sample prep time

- For microarray and *in situ* hybridization, immunohistochemistry applications, slide warming and drying
- Sealed chamber permits hybridization and single-slide temperature incubation procedures without need for sealed cover slips
- Reduces preparation time, avoids exposure to fumes from slide-sealing agents
- PID temperature controller ensures rapid heatup and temperature stability
- Temperature range: 5°C above ambient to 75°C

Oven (05-450-50) shown with stainless-steel slide rack and cover and optional polycarbonate slide holder

ORDERING INFORMATION:
Overall dimensions: 17.75L × 18W × 6"H (45 × 46 × 15cm). Tray dimensions: 11.5L × 7.5W × 0.75"H (29 × 19 × 1.9cm).

INCLUDES:
Stainless-steel slide rack holds up to twenty 1 × 3" slides as well as various other size slides

WARRANTY: Two years

Description	Mfr. No.	Cat. No.	Each
Hybridization Apparatus for Slides	241000	**05-450-50**	4500.91

Boekel™ Slide Moat™ Incubators

For *in situ* hybridization from 5°C above ambient to 100°C

Versatile microscope slide incubator

- At home in clinical or basic research laboratory
- Designed for *in situ* hybridization or denaturation, plus all slide drying and warming procedures used in histology, cytology, or pathology
- Range: 5°C above ambient to 100°C PID controller for easy temperature selection, rapid heating (ambient to 65°C in 20 minutes) and excellent stability (typically ±0.2°C or better throughout operating range)
- Tight-fitting tempered glass lid seals to integral gasket on heating base; airtight seal maintains saturated atmosphere overnight with only a few drops of water
- Accommodates up to 30 standard (1 × 3") microscope or specially designed *in situ* slides in three rows of ten each

ORDERING INFORMATION:

- Clearance between the lid and pedestal is 0.375" (1cm)
- Chamber dimensions: 13.75D × 16W × 5.75"H (34.9 × 40.6 × 14.6cm)
- Net weight: 18 lb. (8.7kg)

05-540-31

Electrical Requirements	Mfr. No.	Cat. No.	Each
115VAC 60Hz	240000	**05-450-31**	2250.00

Standard 1

Fisher Scientific™ Isotemp™ Forced-Air Incubators

Built-in PID microprocessor-based controller delivers outstanding temperature uniformity

With average temperature uniformity of ±0.3°C (±0.5°C absolute), these incubators operate within much tighter tolerances than gravity convection incubators. Choose from three models: 2.2, 3.4 and 4.5 cu. ft.

- Built-in PID microprocessor-based controller for close uniformity with set temperatures
- Can set temperatures up to 75°C in 0.1°C increments using the keys on the control panel
- Actual temperature is displayed (to the nearest 0.1°C) on the bright, three-digit LED display
- If actual temperature exceeds setpoint by 3°C, a visual alarm will signal on the control panel
- Tempered glass inner door to view samples
- Temperature recovery is within two minutes (three min. on 4.5 cu. ft. model)
- Heavy-duty steel/aluminum exterior; stainless-steel interior surrounded by 3" thick (7.6cm) insulation in the walls and 1.5" (3.8cm) in the door
- 5-amp electrical outlet to support other apparatus

INCLUDES:
The 2.2 and 3.4 cu. ft. models supplied with one adjustable shelf; the 4.5 cu. ft. model comes with two shelves. Additional shelves may be purchased separately. All models come with a line cord and grounded NEMA 5-15P plug.

WARRANTY:
12 months

CERTIFICATIONS:
CSA approved.

11-690-637F

Model	625F	637F	650F
Capacity (Chamber Volume)	2.2 cu. ft. (62.3L)	3.4 cu. ft. (96.3L)	4.5 cu. ft. (127.4L)
Temperature Range	5° above ambient to 75°C	5° above ambient to 75°C	5° above ambient to 75°C
Average Uniformity	±0.3°C	±0.3°C	±0.3°C
Absolute Uniformity	±0.5°C	±0.5°C	±0.5°C
Resolution	0.1°C	0.1°C	0.1°C
Control Sensitivity	±0.1°C	±0.1°C	±0.1°C
Recovery Time[3]	2 min.	2 min.	3 min.
Calibration Accuracy at 37°C	±0.5°C	±0.5°C	±0.5°C
Air Changes per Hour at 75°C	3–5	3–5	3–5
Shelves: Supplied/Max.	1/3	1/6	2/10
Exterior L × W × H	26 × 23 1/2 × 26" (66 × 60 × 66cm)	26 × 23 1/2 × 33" (66 × 60 × 84cm)	26 × 23 1/2 × 39" (66 × 60 × 99cm)
Chamber D × W × H	17 × 18 × 12 1/2" (43 × 46 × 32cm)	17 × 18 × 19" (43 × 46 × 48cm)	17 × 18 × 25 1/2" (43 × 46 × 65cm)
Shipping Weight	150 lb. (68.0kg)	165 lb. (74.8kg)	190 lb. (86.2kg)
Electrical Requirements	120V 60Hz, 330w, 8.3A	120V 60Hz, 330w, 8.3A	120V 60Hz, 410w, 8.9A
Cat. No.	**11-690-625F**	**11-690-637F**	**11-690-650F**
Each	3470.00	3520.00	3790.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ Isotemp™ Standard Lab Incubators

30° to 75°C (86° to 167°F) range

Incubators with gravity flow circulation provide accurate, efficient heating for routine laboratory procedures: drying and staining of slides, paraffin embedding, tissue culture work, incubation of antibody tests, microbiological determinations, crystallization studies and more. Electrical receptacle inside (5A at 120V) to plug in a stirrer, shaker or other apparatus.

Easy to operate

- Microprocessor control
- Controls are conveniently located at the top of the incubator chamber
- Keypad with arrow keys to increase or decrease set point temperature in 0.1°C increments
- Overtemperature value is automatically set at 3°C above setpoint
- PID controller comes with fixed parameters so no tuning is required
- Circuit breaker protects incubator from power surges; battery backup
- Designed to stack two units

Big three-character LED display

- Digits display actual temperature to nearest 0.1°C
- Display shows current value for set point temperature
- HEAT indicator light cycles on and off to show when incubator heaters are on
- ALARM indicator lights up if temperature exceeds overtemperature limit; backup controller maintains temperature at 3°C above setpoint; safety backup built into software

Small, medium and large workload capacities

- Available in three chamber capacities
- Mounting holes at 2" (5cm) intervals on the chamber walls for shelf placement
- Small incubator holds a maximum of five shelves, medium incubator holds eight and large incubator holds eleven

Low-maintenance incubators with inner and outer doors

- Cabinet has durable, enamel-coated steel exterior
- Extruded aluminum trim has acrylic powder coating
- Chamber is easy-to-clean stainless steel
- Low-watt-density heater elements are designed for long life
- Silicone gasket on outer door and 3" thick (7.6cm) fiberglass insulation throughout prevent heat loss
- Outer door opens to 180° for unhindered access and features two grabber-type latches
- Inner door is tempered glass

11-690-637D

- Steel shelves are 17.37" wide and 16.75" front-to-back (44 × 42.5cm)
- Black synthetic rubber feet keep incubator from slipping and maintain a space between incubator and benchtop for ventilation

INCLUDES:
Small (2.5 cu. ft.) and medium (3.75 cu. ft.) incubators each come with one plated-steel shelf; large (5.0 cu. ft.) incubator comes with two shelves.

WARRANTY:
One year

CERTIFICATIONS:
CSA approved.

Model	Small	Medium	Large
Capacity (Chamber Volume)	2.5 cu. ft. (70.8L)	3.75 cu. ft. (106.2L)	5.0 cu. ft. (141.6L)
Temperature Range	30° to 75°C (86° to 167°F)	30° to 75°C (86° to 167°F)	30° to 75°C (86° to 167°F)
Average Uniformity	±0.7°C at 37°C	±0.7°C at 37°C	±0.7°C at 37°C
Resolution	0.1°C	0.1°C	0.1°C
Control Sensitivity	±0.1°C	±0.1°C	±0.1°C
Recovery	2 min.	2 min.	2 min.
Air Changes per Hour	6	4	3
BTU per Hour (75°C)	290	360	430
Exterior L × W × H	23.5 × 26 × 26" (60 × 66 × 66cm)	23.5 × 26 × 33" (60 × 66 × 84cm)	23.5 × 26 × 39" (60 × 66 × 99cm)
Interior D × W × H	18 × 18 × 13.5" (46 × 46 × 34cm)	18 × 18 × 20" (46 × 46 × 51cm)	18 × 18 × 26.5" (46 × 46 × 67cm)
Shelves	1	1	2
Shipping Weight	115 lb. (52kg)	130 lb. (59kg)	145 lb. (66kg)
Electrical Requirements	120V 60Hz, 260w, 2.2A	120V 60Hz, 260w, 2.2A	120V 60Hz, 320w, 2.7A
Cat. No.	**11-690-625D**	**11-690-637D**	**11-690-650D**
Each	2650.00	2960.00	2890.00

Boekel™ Digital Incubator

With digital temperature display

For incubating cultures, test kits, eggs and other biologicals in physicians' offices or clinical, industrial and school laboratories.

- Compact size ideal for labs restricted by low-hanging cabinetry
- Features an LCD digital temperature display with 0.1°C resolution
- Has rugged metal door, magnetic door latch; provides excellent temperature stability and uniformity
- Supplied with an integral bottom shelf plus one adjustable shelf
- Capacity: 0.8 cu. ft. (0.02m³)
- Maximum temperature: 60°C (140°F)
- Net weight: 19 lb. (8.6kg)
- For 120V

11-700-107

Exterior L × W × H	Interior D × W × H	Mfr. No.	Cat. No.	Each
14 × 13 × 16.25" (35.6 × 33 × 41.3cm)	12 × 11.5 × 10.5" (30.5 × 29.2 × 26.7cm)	133000	**11-700-107**	1114.00

Refrigerated

Fisher Scientific™ Isotemp™ BOD Refrigerated Incubators

20 cu. ft. capacity with microprocessor control of temperature

- -10° to +50°C range (14° to 122°F); uniformity, ±0.5°C at 20°C
- Capacity: 20 cu. ft. (566.3L)
- Total shelf area: 15.8 sq. ft. (1.6m²), plus 5 sq. ft. (0.5m²) of on-door storage
- Microprocessor controlled: push-button temperature setpoint, high/low-temperature protection, easy-to-read digital display, simple front-panel calibration
- Side-mounted jacks for analog recorder output; rear port for auxiliary equipment in chamber
- Steel exterior, white powder-coated finish; porcelain-steel interior
- Ductwork allows forced air convection
- Six zinc-chromate shelves with stainless-steel supports
- Magnetic door gasket, door lock
- Interior light
- Air circulator

3720

CERTIFICATIONS: cCSAus listed:

Specifications	
Capacity	20 cu. ft.
No. of Shelves	6 supplied; 6 max.
Insulation	CFC-free, foamed polyurethane
Temperature Range	-10° to +50°C
Temperature Sensitivity	±0.1°C
Temperature Uniformity (Absolute)	±0.5°C at 20°C
Temperature Uniformity (Avg.)	±0.5°C
D × W × H	50.8 × 67.3 × 144.8cm
L × W × H	82 × 82 × 191cm
Electrical Requirements	115V 60Hz, 7.0A

Description	Cat. No.	Each
Isotemp BOD Refrigerated Incubator	**3720**	4670.67

Fisher Scientific™ Isotemp™ Undercounter BOD Refrigerated Incubator

6.1 cu. ft. capacity — holds 114 BOD bottles

Broad temperature range, precise control.

- Range: -10° to +60°C (14° to 140°F); stability, ±0.2°C; uniformity, ±1°C
- Door-mounted microprocessor controller, LED display with readout to 0.1°C
- Chamber safety thermostat set at 62°C; alarm LED alerts to over/under temperature
- Compressor overload relay, RTD temperature probe and protected set point mode
- White plastic interior/white enamel steel exterior, foamed polyurethane insulation; door opening from left
- 2A convenience outlet inside chamber
- Two bottom rollers for easy installation and leveling

97-990E

ORDERING INFORMATION:
Overall dimensions: 24.5L × 24W × 34.5"H (62.2 × 61 × 87.6cm).
Shipping weight, 126 lb. (57kg).

INCLUDES:
Two removable shelves, three molded door shelves, line cord and plug

WARRANTY:
One year

CERTIFICATIONS:
115V Model is CSA approved.

Model	Cat. No.	Each
115V 60Hz, 6A	**97-990E**	3970.00
230V 50Hz, 4A	**97-995EN**	4830.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Precision™ Refrigerated Incubators

Microprocessor controls and forced-air circulation

Temperature Uniformity

- Microprocessor control with easy-to-read display shows actual temperature within 0.1°C
- Push-button controls for temperature set point selection
- Forced-air circulation delivers excellent temperature stability
- CFC-free, foamed polyurethane insulation prevents heat loss
- RTD temperature probe and protected set point mode prevent accidental temperature change
- Door key lock protects samples from unauthorized access

Efficient Design

- Easy-to-clean, corrosion-resistant construction
- Compressor relay conserves energy

173L (6.1 cu. ft.) Unit

- Economical undercounter design
- High/low safety thermostat backups
- Three cooling modes simplify operation: high precision with cooling; high precision without cooling; and frost-free with variable cooling
- Four adjustable leveling feet for stable setup
- 2A outlet easily supports apparatus inside the unit

566L (20 cu. ft.) Unit

- Ideal for BOD applications and temperature settings at or below ambient
- Holds up to 333 BOD bottles (300mL)
- Temperature set point selection with high- and low-temperature protection and simple calibration
- Available with dual lamp fluorescent lighting for plant growth studies and day/night cycles, programmable lighting conditions
- Safety relay and alarm LED alert to over/under temperature conditions
- Access port for independent sensors/ connection of equipment inside unit
- RS-232 and recorder jacks for datalogging

11-679-51

CERTIFICATIONS:
115V units are cCSAus listed.

Specifications	
Insulation	CFC-free, foamed polyurethane

Capacity	Temperature Range	Interior D × W × H	Exterior L × W × H	Shipping Weight	Electrical Requirements (Amps)	Mfr. No.	Cat. No.	Each
6.1 cu. ft. (173L)	-10° to +60°C	20.5 × 20.5 × 28" (70 × 52 × 53cm)	24.5 × 24 × 34.5" (62 × 61 × 87.6cm)	126 lb. (57kg)	115V 60Hz (9.5)	PR205745R	**11-475-126**	4270.00
6.1 cu. ft. (173L)	-10° to +60°C	20.5 × 20.5 × 28" (70 × 52 × 53cm)	24.5 × 24 × 34.5" (62 × 61 × 88cm)	126 lb. (57kg)	230V 50Hz (5.8)	PR205740R	**11-475-127**	4270.00
20.0 cu. ft. (566L)	-10° to +50°C	20 × 26.5 × 57" (50.8 × 67.3 × 144.8cm)	29 × 32 × 75" (74 × 82 × 191cm)	315 lb. (142.9kg)	115V 60Hz (7.0)	3721	**11-679-51**	5220.00

Thermo Scientific™ Precision™ Large-Capacity Incubators

Standard and low-temp. models use mechanical convection for uniform heating or cooling of large loads

- 30 cu. ft. (849.5L) chamber volume
- Occupy less than 8 sq. ft. (0.7m²) of floor space
- Hydraulic thermostat control
- Powder-coated steel exterior; aluminum interior
- Easy to clean and corrosion and chemical resistant
- Built-in, high-temperature safety feature

Low-Temp. Model 30MR

- Uniformity of ±0.5°C at 37°C and ±0.4°C at 5°C
- Outside dimensions: 29.25L × 36W × 93.5"H (74.3 × 91.4 × 237.5cm)
- Chamber dimensions: 24.25D × 30W × 72"H (61.6 × 76.2 × 182.9cm)
- Shipping weight: 760 lb. (344kg)

ORDERING INFORMATION:
Electrical: 120V 50/60Hz, 17.9A.
Note: 11-679-71 must be hardwired by a professional electrician; cord is not provided.

INCLUDES:
Six rod-type cadmium-plated steel shelves, internal duplex outlet and terminal board (without line cord).

Thermo Scientific Precision Large-Capacity Incubators

Model	Door	Mfr. No.	Cat. No.	Each
30MR	Solid	3975	**11-679-71**	10,990.00
30MR	Glass	3977	**11-679-70**	11,510.00

Apoptosis Assays

Thermo Scientific™ Drosophila and Low Temperature Incubators

Microprocessor controlled with precise temperature specifications — an energy efficient solution for your research

- Peltier-cooled incubators operate within a temperature range preferable to the fruit fly
- Peltier-cooled incubators meet APHA specifications for Biochemical Oxygen Demand
- Thermoelectric cooling technology eliminate the need for a refrigerated compressor
- Excellent temperature uniformity allows for more effective space utilization by insuring all areas are maintained at proper temperatures
- Painted stainless steel interiors are easy to clean and corrosion resistant
- Programmable controller allows for 40-step ramp and soak profiles or four files with 10-steps per file
- All models include an RS 485 output as well as an independent over-temperature thermostat and alarm
- Heavy duty shelves have 75 lb. capacity

WARRANTY:
One year parts and labor;
Two year parts.

Thermo Scientific Drosophila and Low Temperature Incubators

Specifications	
Temperature Range	15 to 40°C
Temperature Uniformity (unit @ 15°C)	±0.55°C (at 15 to 28°C ambient, 50%RH
Temperature Uniformity (unit @ 22°C)	±0.64°C (at 15 to 35°C ambient, 50%RH
Temperature Uniformity (unit @ 40°C)	±1.0°C (at 18 to 40°C ambient, 50%RH
Temperature Control	0.1°C Display increments
RS485 Interface	Yes
Electrical Specifications	100-120V, 50/60Hz

Capacity	Interior Dimensions (D × W × H)	Exterior Dimensions (D × W × H)	Shelving	Shelf Capacity	Unit Net Weight	Mfr. No.	Cat. No.	Each
Drosophila Incubator								
6.5 cu. ft. (185L)	24.1 × 25.6 × 18.5" (60.9 × 64.7 × 46.9cm)	32.2 × 31.8 × 33.5" (80.1 × 76.2 × 85.1cm)	2 Supplied	75 lb. (34kg)/ shelf. 150 lb. (68kg) total	118 lb. (259kg)	3915FL	**39-15F-L**	6640.00
19.5 cu. ft. (552L)	24.1 × 25.6 × 54.8" (60.9 × 64.7 × 138.4cm)	32.2 × 31.8 × 69.6" (80.1 × 76.2 × 176.6cm)	5 Supplied, Adjustable, Bottom shelf slide	75 lb. (34kg)/ shelf. 375 lb. (170kg) total	172 lb. (380kg)	3990FL	**39-90F-L**	10,210.00
Low Temperature Incubator								
6.5 cu. ft. (185L)	24.1 × 25.6 × 18.5" (60.9 × 64.7 × 46.9cm)	32.2 × 31.8 × 33.5" (80.1 × 76.2 × 85.1cm)	2 Supplied	75 lb. (34kg)/ shelf. 150 lb. (68kg) total	118 lb. (259kg)	3915LT	**39-15L-T**	5620.00
19.5 cu. ft. (552L)	24.1 × 25.6 × 54.8" (60.9 × 64.7 × 138.4cm)	32.2 × 31.8 × 69.6" (80.1 × 76.2 × 176.6cm)	5 Supplied, Adjustable, Bottom shelf slide	75 lb. (34kg)/ shelf. 375 lb. (170kg) total	172 lb. (380kg)	3990LT	**39-90L-T**	9190.00

Your ONE SOURCE for Life Science Solutions

Fisher Scientific is your one source for all of your life science application needs. On the Life Science Minisite, you will find dedicated programs, innovative technologies, and savings to deliver solutions across your entire application.
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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Environmental Test Chambers

Thermo Scientific™ Forma™ Environmental Chambers

Choice of chambers to meet your specific needs

13-067-066

Broad Range of Features and Controls

- Wide temperature range of 0° to 60°C enhances the flexibility of the unit
- Relative humidity control via steam generator from above ambient to 95% at 37°C†
- Sophisticated digital controls
- Programmable ramp and soak cycles for temperature and RH
- Durable cabinets feature true laminar airflow through side plenums for extremely tight uniformity
- Phenolic-coated evaporator for use in applications that create corrosive byproducts
- Manual control of defrost and refrigeration cycles
- Visible/audible safety alarms alert to over- and undertemperature conditions, deviation of humidity from set parameters (except Model 3920)

Durable Construction

- Cold-rolled steel, powder-coated cabinet
- 2.0" (5.1cm) thick, CFC-free, foamed-in-place polyurethane insulation
- Stainless-steel interior
- Solid stainless-steel adjustable shelves
- Directed horizontal airflow system for excellent uniformity
- Locking swivel casters ensure easy mobility during installation and cleaning
- Leveling feet provide stability and added safety in the lab

Broad Range of Options

- Interior lighting for Models 3920, 3940 and 3949
- Reinforced shelving and flooring for heavy loads
- Heatless dryer for lower humidity levels
- Access ports for probes, sensors
- Interior convenience receptacles
- CO_2 (IR sensor)
- 6" and 12" temperature chart recorder
- Other custom options available

Model 3911

- 11 cu. ft. (311.5L) capacity
- 208/220V 60Hz, 15.0A
- 4-wire power cord (including ground)
- NEMA 14-20P plug
- 3 solid stainless-steel shelves
- Exterior D × W × H: 32 × 38 × 51.5" (81.3 × 96.5 × 130.8cm)
- Interior D × W × H: 27 × 31 × 24" (68.6 × 78.7 × 60.9cm)

Model 3920

- 29 cu. ft. (821.2L) capacity
- 120V 60Hz, 20.0A
- 3-wire power cord (including ground)
- NEMA 5-30P plug
- 6 solid stainless-steel shelves
- Exterior D × W × H: 32 × 38 × 88.5" (81.3 × 96.5 × 224.8cm)
- Interior D × W × H: 27 × 31 × 60" (68.6 × 78.7 × 152.4cm)

Model 3940

- 29 cu. ft. (821.2L) capacity
- 208/220V 60Hz, 15.0A
- 4-wire power cord (including ground)
- NEMA 14-20P plug
- 6 solid stainless-steel shelves
- Exterior D × W × H: 32 × 38 × 88.5" (81.3 × 96.5 × 224.8cm)
- Interior D × W × H: 27 × 31 × 60" (68.6 × 78.7 × 152.4cm)

COMPLIANCE:
ICH, FDA, TAPPI, ASTM™.

Specifications	
Display Type	Digital dual LED
Control Type	Microprocessor, PID
Programmability	Temperature ramp and soak, up to 24 steps
Temperature	
Sensor	RTD
Range	0° to 60°C
Resolution	0.1°C
Relative Accuracy	±0.1°C at 25° to 37°C
Uniformity	±0.3°C at 25° to 37°C
Refrigeration and Heating	
Compressor	1/4hp, air-cooled
Refrigerant	CFC-free, R134A
Defrost	Adjustable defrost timer; factory set for two 15-min. defrost cycles/24 hr.
Heat Output	1750W (6000BTUH) at 220V, 1600W (5500BTUH) at 115V
Relative Humidity (all models except 3920)	
Display	Digital, dual LED (direct set and read in % RH)
Control	Microprocessor, PID
Sensor	Bulk polymer
Range	Above ambient to 95% at 37°C (98.6°F)
Resolution	1.0%
Relative Accuracy	±5.0%
Humidity Source	Steam generator; initial fill approx. 1 qt. (1L)
Input Water Pressure Range	Water Inlet Gravity to 40psi
Water Consumption	0.25 gal./hr. input water volume
Water Resistivity	50kilohm to 1megohm resistance

Capacity	No. of Shelves	Electrical Requirements	Mfr. No.	Cat. No.	Each
11 cu. ft. (311.5L)	3	208/220V 60Hz	3911	**13-987-065**	16,300.00
29 cu. ft. (821.2L)	6	120V 60Hz	3920	**13-262-340**	13,690.00
29 cu. ft. (821.2L)	6	208/220V 60Hz	3940	**13-067-066**	17,280.00

Microbiological

Thermo Scientific™ Plant Growth Chambers

Accommodates plant, animal and culture studies in the classroom

14.2 cu. ft. (396L) Countertop Model

- Automatic 24-hr. programming with timer
- Sliding glass doors for easy access and viewing
- Four fluorescent and three incandescent lamps for various lighting levels
- Two interior electrical outlets allow use of other equipment
- Main power switch, lamp switch, heater output, fan, thermostat and programmer switches feature on/off indicator lights
- Removable front control panel allows maintenance without disturbing experiments
- With black-out panel

17.6 cu. ft. (498.4L) Floor Model

- Two separate chambers, each with its own 24-hr. timer for light and temperature control
- Temperature control: just above ambient to 37°C (with lights off)
- Separate switches for lights on shelves and chamber top allow different lighting conditions between chambers or between the top and bottom of the same chamber
- Maple hardwood chamber exterior blends with classroom décor
- Easy-to-clean white enamel interior
- Hi-Lo limit thermostat protects samples and experiment conditions
- Lock-on Plexiglas™ control panel cover and doors provide added security
- Base features a 12 cu. ft. (339.8L) storage compartment
- Interior-reflective door glass keeps ambient light out

20 cu. ft. (566L) Floor Model

- 24-hr. timer/programming for lighting and temperature
- Temperature control: -5° to 55°C (10° to 55°C with lights on)

Thermo Scientific Plant Growth Chambers

- Enamel-finished steel chamber
- Door keylock ensures sample security
- Day and night thermostats have a selector switch for automatic operation
- Adjustable Hi-Lo thermostat provides temperature back-up to safeguard samples
- LED displays accurate temperature readings
- Four 20W adjustable fluorescent lamps plus two fixed 25W incandescent lamps provide more than 1000fc of illumination
- Five fixed shelves and six door shelves

Description	Mfr. No.	Cat. No.	Each
Plant Growth Chamber with controlled humidification	845	**11-686-720**	14,210.00

Thermo Scientific™ Heratherm™ General Protocol Microbiological Incubators

- Gravity convection provides gentle air flow and minimal drying out
- Temperature range from ambient +5° to 75°C
- Temperature uniformity of ±0.6°C (measured at 37°C)
- Temperature stability of ±0.2°C (measured at 37 °C)
- Corrosion-resistant stainless-steel chamber (AISI 430)
- Intuitive user interface for setting temperature
- Large, easy to read vacuum fluorescent display
- Internal glass door allows sample viewing without impacting temperature
- Exceptionally small footprint

CERTIFICATIONS:
cCSAus (120V, 50/60Hz models)

Specifications	
Convection Technology	Gravity convection
Controller	Microprocessor control with vacuum fluorescent display
Temperature Range	Ambient +5° to 75°C
Temperature Uniformity at 37°C	±0.6°C (60, 100, 180L); ±0.4°C (400L); ±1.3°C (750L)
Temperature Stability at 37°C	±0.2°C (60, 100, 180L); ±0.4°C (400, 750L)
Max. Shelf Load	25kg (55 lbs.) (60, 100, 180L); 30kg (66 lbs.) (400, 750L)

Chamber Volume	Interior D × W × H	Exterior L × W × H	No. of Shelves (supplied / max.)	Weight	Mfr. No.	Cat. No.	Each
2.6 cu. ft. (75L)	16.3 × 13.9 × 20.0" (414 × 354 × 508mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	88 lbs. (40kg)	51028063	**51-028-063H**	1881.00
4.0 cu. ft. (117L)	16.3 × 18.3 × 23.9" (414 × 464 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	112 lbs. (51kg)	51028064	**51-028-064H**	2350.00
6.9 cu. ft. (194L)	23.2 × 18.3 × 27.9" (589 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	143 lbs. (65kg)	51028065	**51-028-065H**	2780.00

† *All units are 120V*

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Heratherm Advanced Protocol Security Microbiological Incubators

Featuring unique 140°C decontamination routine and lockable doors for outstanding sample safety

- Dual convection for application versatility (except for large capacity units) — fan speed adjustable from 0 to 100%
- Easy to clean, stainless-steel interior (AISI 304)
- Intuitive user interface for setting temperature
- Large, easy to read vacuum fluorescent display
- Optional sample sensor provides exact temperature of sample on display
- Internal glass door allows sample viewing without impacting temperature
- Exceptionally small footprint

140°C decontamination cycle

- At 140°C contaminating microorganisms are reduced to a minimum – comparable to sterilization – within a six hour heating cycle
- No need for separate autoclaving of internal fittings
- Certified by an accredited microbiological institute

Specifications	
Controller	Microprocessor control with vacuum fluorescent display
Temperature Range	Ambient +5° to 105°C
Temperature Uniformity at 37°C	±0.6°C† (60, 100, 180L); ±0.2°C (400L); ±0.3°C (750L)
Temperature Stability at 37°C	±0.1°C (60, 100, 180L); ±0.2°C (400, 750L)
Timer	Weekly/Real Time/Hour
Max. Shelf Load	25kg (55 lbs.) (60, 100, 180L) 30kg (66 lbs.) (400, 750L)

† Value assumes fan is off. With fan at full speed, uniformity is ±0.2°C (51028069/51028264, 51028136/51028541), ±0.3°C (51028070/51028535, 51028137/51028542) and ±0.4°C (51028111/51028327, 51028138/51028543).

Chamber Volume	Interior D × W × H	Exterior L × W × H	No. of Shelves (supplied/max.)	Weight	Mfr. No.	Cat. No.†	Each
Coated steel exterior							
2.30 cu. ft. (66L)	14.5 × 13.9 × 20.0" (368 × 354 × 508mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	99 lbs. (45kg)	51028069	**51-028-069H**	3650.00
3.67 cu. ft. (104L)	14.5 × 18.3 × 23.9" (368 × 464 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	123 lbs. (56kg)	51028070	**51-028-070H**	4180.00
6.30 cu. ft. (178L)	21.4 × 18.3 × 27.9" (543 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	154 lbs. (70kg)	51028111	**51-028-111H**	4500.00
13.45 cu. ft. (381L)	20.6 × 21.4 × 52.6" (524 × 544 × 1335mm)	30.3 × 30.6 × 60.8" (770 × 778 × 1545mm)	2 / 39	317 lbs. (144kg)	51029323	**51-029-323H**	7490.00
24.79 cu. ft. (702L)	20.6 × 39.5 × 52.6" (524 × 1004 × 1335mm)	30.3 × 49.7 × 60.8" (770 × 1261 × 1545mm)	2 / 39	452 lbs. (204kg)	51029335	**51-029-335H**	9610.00
Stainless-steel exterior							
2.30 cu. ft. (66L)	14.5 × 13.9 × 20.0" (368 × 354 × 508mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	99 lbs. (45kg)	51028264	**51-028-264H**	3890.00
3.67 cu. ft. (104L)	14.5 × 18.3 × 23.9" (368 × 464 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	123 lbs. (56kg)	51028535	**51-028-535H**	4400.00
6.30 cu. ft. (178L)	21.4 × 18.3 × 27.9" (543 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	154 lbs. (70kg)	51028327	**51-028-327H**	4840.00
13.45 cu. ft. (381L)	20.6 × 21.4 × 52.6" (524 × 544 × 1335mm)	30.3 × 30.6 × 60.8" (770 × 778 × 1545mm)	2 / 39	317 lbs. (144kg	51029324	**51-029-324H**	8050.00
24.79 cu. ft. (702L)	20.6 × 39.5 × 52.6" (524 × 1004 × 1335mm)	30.3 × 49.7 × 60.8" (770 × 1261 × 1545mm)	2 / 39	452 lbs. (204kg	51029336	**51-029-336H**	9440.00

† All units are 120V

ON THE WEB...

Looking for accessories for Thermo Scientific™ Heratherm Advanced Protocol Security Microbiological Incubators?

Visit www.fishersci.com and search for Heratherm Incubators

Knives

Bel-Art™ Scienceware™ Safety Cutter

Easily and safely cut LabMat™ liners, plastic "clamshell" packaging, shrink wrap, paper, etc.

- Faster and safer than scissors or utility knives — will not cut fingers
- Ceramic blade stays rust-free and remains sharp longer than stainless steel blades
- Blade does not need to be covered for safety
- Elongated tear-drop shape measures 2.375 × 1.1875 × 0.1875" (6 × 3 × 0.5cm)

14-241-204

Dimensions	Mfr. No.	Cat. No.	Pack of 3
2.375 × 1.1875 × 0.1875" (6 × 3 × 0.5cm)	F21012-0000	**14-241-204**	26.20

Bard-Parker™ Surgical Blade Handles

For postmortem work, trimming light plaster casts and similar forceful cutting

08-915A

- Strong plastic handles provide secure palm-fitting grip
- Blades slide on smoothly and securely (sold separately)
- Use blade sizes 10, 11, 12, 15 for handle size 5
- Use blade sizes 20, 21, 22, 23 and 25 for handle size 6
- Use blade size 60 for handle size 8

Size	Length	Mfr. No.	Cat. No.	Each	Case of 5
5	4.813" (12.4cm)	371050	**08-915A**	26.49	108.23
6	5.188" (13.1cm)	371060	**08-915B**	27.55	108.90
8	5.281" (13.4cm)	371080	**08-915C**	29.44	120.32

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The Fisherbrand portfolio is home to 10,000+ products guaranteed to fit your every need. There isn't a space in your lab that isn't a perfect place for our equipment, instruments and consumables. Individually, our products embrace a 50-year tradition of quality and reliability; together, they deliver purchasing efficiencies and cost savings from a trusted single source. **Visit www.fishersci.com/fisherbrand.**

Fisherbrand® Razor Blades

Single-edged carbon steel blades

- Cutting edge on each blade protected by paper shell
- For industrial, general and scientific purposes

Description	Cat. No.	Pack of 100	Case of 50 Pack
Razor Blades	**12-640**	46.92	1563.86

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Labeling

Label Makers

Brady™ LABXPERT™ FreezerBondz™ Labels

For Brady TLS 2200 and PC Link Printers

- Withstand liquid nitrogen to -196°C (-321°F), freezer to -80°C (-112°F) and autoclave to +121°C (+250°F)
- Matte white with permanent acrylic adhesive
- Will adhere to a frozen or frosted surface without the need to scrape or dry the vial before placement of the label
- Suitable for glass and polypropylene surfaces

NOTES:
To be assured that label stays secured when placed back into storage, label should wrap around the vial and slightly overlap itself.

For Vial Size	Size	Labels/ Cartridge	Mfr. No.	Cat. No.	Each
For Cryo Vials and Tubes					
0.6mL	1.25 × 0.375" (31.8 × 9.5mm)	500	X-112-490	**11-878-108**	75.70
1.0-8.0mL	0.6 × 1.8" (15.2 × 45.7mm)	225	X-126-490	**11-878-113**	67.00
1.0-8.0mL	1.0 × 1.75" (25.4 × 44.5mm)	225	X-125-490	**11-878-112**	67.00
14-15mL	1.5 × 2.2" (38.1 × 55.9mm)	175	X-113-490	**11-878-109**	85.60
For Conicals and Large Tubes					
50 conical	1.5 × 3.75" (38.1 × 95.3mm)	100	X-114-490	**11-878-110**	62.00

Brady™ LABXPERT™ Nylon Cloth Labels

- Withstand liquid nitrogen to -196°C (-321°F), freezer to -80°C (-112°F) and autoclave to +121°C (+250°F)
- Ideal for performance and general-purpose lab labeling
- Matte white with permanent adhesive; thicker construction makes this material durable, yet easy to handle
- Style: Freestanding

NOTES:
Not suitable for use on glass in liquid nitrogen.

For Vial Size	Size	Labels/ Cartridge	Mfr. No.	Cat. No.	Each
For Centrifuge, Eppendorf™, and PCR Tubes					
0.5-0.7mL	1.0 × 0.375" (25.4 × 9.5mm)	300	X-118-499	**11-878-137**†	74.60
0.5-0.7mL	1.0 × 0.5" (25.4 × 12.7mm)	300	X-120-499	**11-878-136**†	76.90
1.0-8.0mL	1.0 × 0.5" (25.4 × 12.7mm)	300	X-117-499	**11-878-135**‡	76.90
For Cryo Vials and Tubes					
0.6mL	0.825 × 0.375" (21 × 9.5mm)	275	X-130-499	**11-878-114**	49.00
1.0-8.0mL	1.0 × 0.5" (25.4 × 12.7mm)	225	X-131-499	**11-878-116**	73.00
14-15mL	1.25 × 1.5" (31.75 × 28.1mm)	200	X-132-499	**11-878-117**	77.90

† *With 0.375" label dot*
‡ *With 0.440" label dot*

Brady™ LABXPERT™ Polyester Slide Labels

- Withstand temperatures from -80°C to +121°C (-112°F to +250°F)
- Material offers permanent adhesion, outstanding chemical resistance and write-on capabilities
- Resist xylene, toluene, DMSO and ethanol

11-878-142

Description	Size	Labels/ Cartridge	Mfr. No.	Cat. No.	Each
Standard	0.9 × 0.9" (22.9 × 22.9mm)	350	X-97-488	**11-878-142**	66.30
Oversized	1.9 × 0.25" (48.3 × 6.4mm)	200	X-81-488	**11-878-143**	45.45

Brady™ LABXPERT™ Vinyl Cloth General Lab ID Labels

Withstand freezers to -80°C (-112°F) and autoclaves to +121°C (+250°F)

- Semi-gloss white with removable/ repositionable adhesive
- Aggressive tack makes it ideal for use on glass flasks, plastic jugs, bottles, goblets, rough surfaces and general-purpose lab labeling

11-878-115

Size	Labels/ Cartridge	Mfr. No.	Cat. No.	Each
1.0 × 0.5" (25.4 × 12.7mm)	225	X-131-498	**11-878-115**	73.00
1.0 × 1.9" (25.4 × 48.3mm)	125	X-78-498	**11-878-119**	60.20

Brady™ BMP™51 Label Maker

Offers a large display screen, built-in labeling apps and creating labels without being tethered to a computer or other device

- Print labels up to 1.5" wide
- 300 dpi print head
- 1" per second print speed
- Large, graphical display and backlight with on-screen indicators for parts, remaining material, battery and more
- Material recognition and automatic label formatting
- Durable built-in cutter that retains the label after it's cut
- Built-in Bluetooth™ or optional Wi-Fi card for printing from a network

19-140-388

Hassle-Free Printer Cartridges:

- Ribbon and label materials in one cartridge
- Removal or installation of ribbon and material in one easy step
- "No jam" technology for top-loading cartridge easily snaps into place

Additional Features:

- Max Roll Length: 25'
- Connectivity options: USB, Bluetooth and optional Ethernet, WiFi
- Keyboard: Qwerty
- PC Connectivity: Optional
- Power Supply: AC power (included), 8 AA's (not included), lithium ion battery (not included)
- Print Resolution: 300 dpi
- With multi-line print and print rotation
- Single color printing
- With continuous and die cut labels
- Serialization and stand alone printing

Includes	Mfr.No.	Cat. No.	Each
BMP51 Printer, USB Cable, Hardcase, Quick Start Guide, AC Adapter/Battery Charger, LabelMark, Label Cartridge	75447314705	**19-140-389**	649.50
BMP51 Printer, USB Cable, Hardcase, Quick Start Guide, AC Adapter/Battery Charger, Li-Ion Battery Pack, Label Cartridge	75447314703	**19-140-388**	505.00

Brady™ BMP-21™ Label Printer and Accessories

Simple to operate and quick to print

The BMP-21 thermal transfer label printer creates clear, legible, industrial-strength labels that will stay attached for years, even in the harsh-est environments.

19-102-700

BMP-21 Label Printer:

- One-handed operation to enhance work efficiency
- Large display with backlight for easy reading
- Dual cutter buttons cut and hold printed labels until you need them
- Automated serialization, barcoding and 80 symbols for multiple applications
- Terminal block and patch panel functions for accurate label formatting
- Self-laminating labels and PermaSleeve™ heat shrink sleeves added to material optional

Description	Mfr. No.	Cat. No.	Each
Label printer	BMP21	**19-102-700**	232.50

Brady™ BMP-21 ID PAL Label Cartridges

These thermal transfer labels come in a wide variety of sizes, colors and types

- **Self-Laminating Vinyl:** Sticks well to both smooth and textured surfaces; allows you to label cables and wires with a simple wrapping function and provides excellent smudge resistant text
- **PermaSleeve™ Heat Shrink Tubing:** Constructed of durable 3:1 polyolefin and shrinks to size for labeling wires or cables
- **Polyester:** Has a gloss finish and is perfect for autoclaving and for use in below freezing temperatures
- **High-Performance Polyester:** Incorporates through hole technology, has a matte finish and does well in high temperatures
- **Clear Polyester Film Tape:** A high adhesive, translucent tape with a gloss finish that is perfect for autoclaving and for use in below freezing temperatures
- **Nylon Cloth Labels for Wire, Cable, Patch Panels and Faceplates:** Made of flexible nylon cloth, which is ideal for uneven surfaces and adheres best to textured, low surface energy, powder-coated and smooth surfaces
- **Nylon Cloth for Terminal Block:** Made of nylon, has high adhesion and a low profile; Adheres best to highly textured, rough, powder-coated or smooth surfaces and in an environment where freezing, autoclaving or liquid nitrogen is present
- **Indoor/Outdoor Grade Vinyl:** Available in multiple colors for color-coding applications and text remains crisp and clear in outdoor use for 3 – 5 years

19-102 Series

Color	Size	Length	Mfr. No.	Cat. No.	Each
PermaSleeve Heat Shrink Tubing					
Black on White	0.375" (1cm)	7' (2.1m)	M21-375-C-342	**19-102-728**	92.00
Polyester Labels					
Black on White	0.375" (1cm)	21' (6.4m)	M21-375-423	**19-102-716**	30.35
Black on White	0.500" (1.3cm)	21' (6.4m)	M21-500-423	**19-102-729**	31.80
Black on White	0.750" (1.9cm)	21' (6.4m)	M21-750-423	**19-102-741**	35.30
Black on Clear	0.500" (1.3cm)	21' (6.4m)	M21-500-430	**19-102-730**	30.60
Black on Clear	0.375" (1cm)	21' (6.4m)	M21-375-430	**19-102-717**	30.60
Black on Clear	0.750" (1.9cm)	21' (6.4m)	M21-750-430	**19-102-743**	34.00
Black on White	0.375" (1cm)	21' (6.4m)	M21-375-488	**19-102-719**	35.90

Color	Size	Length	Mfr. No.	Cat. No.	Each
High Performance Polyester Labels					
Black on White	0.500" (1.3cm)	21' (6.4m)	M21-500-488	**19-102-732**	35.90
Black on White	0.750" (1.9cm)	21' (6.4m)	M21-750-488	**19-102-745**	40.25
Clear Polyester Film Tape					
Black on White	0.375" (1cm)	21' (6.4m)	M21-375-461	**19-102-718**	33.70
Black on White	0.500" (1.3cm)	21' (6.4m)	M21-500-461	**19-102-731**	33.45
Black on White	0.750" (1.9cm)	21' (6.4m)	M21-750-461	**19-102-744**	38.60
Nylon Cloth Labels for Wire, Cable, Patch Panels and Faceplates					
Black on White	0.375" (1cm)	16' (4.9m)	M21-375-499	**19-102-720**	36.55
Black on White	0.500" (1.3cm)	16' (4.9m)	M21-500-499	**19-102-733**	40.25
Black on White	0.750" (1.9cm)	16' (4.9m)	M21-750-499	**19-102-746**	35.60

Brady™ TLS2200™ Portable Printer

Handheld printer for toughest labeling challenges

Lightweight printer offers manual or PC-connected operation. Automatically serializes and will also print two copies of each serialized label — one for each end of the run. Works with specialty labels sized to specific vial and tube sizes.

- Withstands tough lab conditions including liquid nitrogen, freezer autoclave, xylene ethanol and DMSO
- Thermal transfer printer delivers crisp, clear, nonsmearing labels
- Simple operation — just drop in labels and push print
- Features memory for label storage, banner printing, built-in label cutter and PC connectivity
- Provides high-quality 203 dpi resolution
- Adjustable for six different widths of labels
- Handles labels as wide as 2" (5cm)
- Prints over 500 labels between battery charges

ORDERING INFORMATION:
Weight: 2.75 lb. (1.2kg).

INCLUDES:
Hard case, R6210 ribbon, battery pack and charger, manual communications cable, test labels and one cleaning card

CERTIFICATIONS:
FCC Class A approved.

19-150-079

Description	Mfr. No.	Cat. No.	Each
TLS2200 Portable Printer	TLS2200	**19-150-079**	937.00
Accessories			
Battery Charger	TLS2200-BC	**19-150-080**	86.40
Battery Pack	TLS2200-BP	**19-150-081**	125.90
AC Adapter	TLS2200-AC	**19-150-082**	160.50
Cleaning Kit	PCK-5	**19-150-083**	16.43

Brady™ Labels for TLS2200™ and TLS PC Link™ Portable Thermal Transfer Printers

For vials, tubes, slides, dishes and more

- Durable, chemical- and solvent-resistant labels; ink will not smear or fade, and the text stays crisp and readable
- Printable labels allow more information to fit on any size legend
- Choice of materials suitable for different environments from liquid nitrogen to autoclaves
- Special self-laminating or wraparound polyester labels protect print from scratches, extreme temperatures and chemicals and solvents including xylene, IPA, ethanol and DMSO

11-877-69

ORDERING INFORMATION:
Labels available in other materials and sizes; contact your Customer Service Representative for ordering information.

Material Compatibility Codes	
F	Freezer Environment
N	Liquid Nitrogen Environment
A	Autoclave Environment
H	Hot Water (100°C [212°F]) Baths
S	Self-laminating Label
L	Low-profile (extremely thin) Label

Material	Size	Withstands Temperatures	Recommended for	Cat. No.	Case of
0.5 to 8mL Vial/Tube Labels					
White Matte Nylon Cloth	$^3/_4$L × $^1/_2$"W (19 × 13mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-43**	500/74.80
White Matte Nylon Cloth	$^7/_8$L × $^1/_2$"W (23 × 13mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-56**	500/74.80
White Self-laminating Polyester	1$^3/_4$L × $^1/_2$"W (46 × 13mm)	-70 to +120°C (-94 to +248°F)	F, N, A, H, S, L	**11-877-54**	500/92.40
White Self-laminating Polyester	1$^5/_8$L × $^5/_8$"W (41 × 15mm)	-70 to +100°C (-94 to +212°F)	F, N, A, H, S, L	**11-877-62**	250/50.00
White Self-laminating Polyester	2$^5/_8$L × 1"W (67 × 25mm)	-70 to +100°C (-94 to +212°F)	F, N, A, H, S, L	**11-877-59**	100/45.95
Yellow Self-laminating Polyester	2$^5/_8$L × 1"W (67 × 25mm)	-70 to +100°C (-94 to +212°F)	F, N, A, H, S, L	**11-877-76**	100/46.85
Conical/Bottle/Petri Dish Labels					
White Self-laminating Polyester	3$^1/_2$L × 1$^1/_2$"W (89 × 38mm)	-70 to +100°C (-94 to +212°F)	F, N, A, H, S, L	**11-877-63**	100/61.10
White Matte Nylon Cloth	1$^7/_8$L × 1"W (48 × 25mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-67**	250/104.10
Vial Top Labels					
Yellow Matte Nylon Cloth	$^3/_8$" dia. (10mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-52**	500/53.40
White Matte Nylon Cloth	$^3/_8$" dia. (10mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-72**	500/53.40
Yellow Matte Nylon Cloth	$^1/_2$" dia. (13mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-00**	500/53.40
White Matte Nylon Cloth	$^1/_2$" dia. (13mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-73**	500/53.40
White Matte Nylon Cloth	1L × $^3/_8$"W, $^3/_8$" dia. (25 × 10mm, 10mm)	-196 to +90°C (-320 to +194°F)	F, N, A	**11-877-01**†	500/105.70
Slide Labels					
White Polyester	$^7/_8$L × $^3/_4$"W (23 × 19mm)	-70 to +120°C (-94 to +248°F)	F, A	**11-877-69**	250/42.90
White Polyester	$^7/_8$L × $^7/_8$"W (23 × 23mm)	-70 to +120°C (-94 to +248°F)	F, A	**11-877-70**	250/37.50
Well Plate Labels					
White Polyester	1$^7/_8$L × $^1/_4$"W (48 × 6mm)	-70 to +120°C (-94 to +248°F)	F, A	**11-877-71**	750/104.10

†*Set of one Vial/Tube label and one Vial Top label.*

Brady™ Labels for Desktop Laser Printers

Ideal for rating plates, asset identification and general purpose labeling applications

- Durable, chemical- and solvent-resistant labels for use with a variety of laser printers
- Withstand extreme laboratory environments including liquid nitrogen and freezers

11-877-150

Material	Size	Recommended For	Cat. No.	Case of
Well Plate Label				
White Matte Polyester	$1\frac{7}{8}$L × $\frac{1}{4}$"W (48 × 6mm)	F, A	**11-877-149**	10000/413.50
Vial/Tube Labels				
White Self-laminating Polyester	1L × $2\frac{5}{8}$"W (25 × 7mm)	F, N, A, H, S, L	**11-877-151**	1000/260.50
	$2\frac{5}{8}$L × $\frac{5}{8}$"W (25 × 15mm)	F, N, A, H, S, L	**11-877-152**	2500/948.50
White Matte Nylon Cloth	1L × $1\frac{1}{2}$"W (25 × 38mm)	F, N, A	**11-877-150**	2500/830.00
Vial Top Labels				
White Matte Nylon Cloth	$\frac{3}{8}$" dia. (10mm)	F, N, A	**11-877-153**	2500/223.50
Panel Identification, Wire and Cable Marking				
Polyester	1.625 × 0.6" (41.28 × 15.24mm)	S	**11-877-184**	2500/234.00

Material Compatibility Codes	
F	Freezer Environment
N	Liquid Nitrogen Environment
A	Autoclave Environment
H	Hot Water (100°C [212°F]) Baths
S	Self-laminating Label
L	Low-profile (extremely thin) Label

Brady™ Ribbons for TLS 2200™ and TLS PC Link™ Printers

For use with the TLS2200 and TLS PC Link Thermal Transfer Printers

Black ribbons for use with a variety of Brady label materials.

R4310 Series Ribbon

Recommended for use with these label materials:

- Matte white PE tag (B-109)
- PermaSleeve™ 3:1 heat-shrink polyolefin (B-342)
- Matte white permanent paper (B-424)
- High-temperature amber polyamide (B-426)
- Self-laminating vinyl (B-427)[1]
- Matte metallized polyester (B-428)[2]
- Self-extinguishing Tedlar™ (B-437)
- Ultra-aggressive permanent matte metallized polyester (B-486)
- Matte white (B-489)[3]
- Matte white nylon cloth (B-499); and self-laminating Tedlar (B-642)

R4410 and R6010 Series Ribbons

Recommended for use with these permanent labels:

- IGlassy white (B-423)[2,3] (only with 6010 ribbon)
- Super-permanent polyester (B-422)2
- Glossy clear polyester (B-430)[2]
- Glossy metallized (B-435)[2]
- Glossy white vinyl (B-439)
- Matte white polyester (B-459)[2]
- Ultra-aggressive glossy white polyester (B-483)[2]

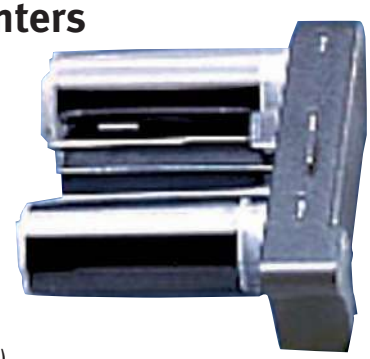
And these other label materials:

- High-temperature glossy white polyamide (B-457)[1]
- Glossy white static dissipative polyester (B-473)[2] Polyimide (B-477)[1]

R6210 Series Ribbon

Recommended for use with these label materials:

- BradySleeve™ heat-shrink polyolefin (B-321)
- Matte white polypropylene tag/insert (B-412)
- Self-laminating vinyl (B-427)



19-150-084

Acceptable for use with these label materials:

- Matte white tamper-evident vinyl (B-351); Glossy white (B-423)
- Super-permanent polyester (B-422)
- Glossy clear permanent polyester (B-430
- Self-extinguishing Tedlar (B-437)
- Glossy white permanent vinyl (B-439)
- Glossy white static dissipative polyester (B-473) and polyimide (B-477)
- Ultra-aggressive permanent glossy white polyster (B-483)
- Matte white nylon cloth (B-499)
- Self-laminating Tedlar (B-642)

ORDERING INFORMATION: Dimensions: 2" × 75' (5.08cm × 22.9m). To determine the best ribbon for your application, call your Customer Service Representative at 1-800-772-6733.

Series	Color	Mfr. No.	Cat. No.	Each
R4310	Black	R4310	**19-150-084**	48.90
R4410	Blue	R4410B	**19-150-099**	57.27
R6010	Black	R6010	**19-150-085**	50.10
R6210	Black	R6210	**19-150-086**	50.10

[1] Label is UL recognized when used with respective ribbon.
[2] Label is UL recognized and CSA approved when used with respective ribbon.
[3] Label is AGA approved and UL recognized. CSA approved when used with respective ribbon.

Labels

Brady™ Freezerbondz™ Labels

Printable labels for thermal transfer printers

Can be applied to frozen surfaces including glass and polypropylene stored in liquid nitrogen. With good print smudge resistance, solvent resistance, and high and low temperature performance.

Cold Surface Label

- Perform well in environments such as liquid nitrogen and autoclavers
- For tube/vial applications these labels must be wrapped upon themselves with at least 1/8" overlap
- Color: White with Matte finish
- Material: Polyester (except 11-877-194, which is nylon)

Printer Compatibility:

- Freezerbondz (11-877-244 through -248): BMP71, TLS 2200, TLS-PC Link
- Freezerbondz (11-877-249 through-251): BBP81, Brady 1244, Brady 1344, Brady 200MVP Plus, Brady 2461, Brady 300MVP Plus, Brady 300X-Plus II, Brady 3481, Brady 360X-Plus II, Brady 600X-Plus II, Brady 6441, IP300, IP600, Tagus T200, Tagus T300, Thermal Transfer Printers
- Freezerbondz II and Nylon (11-877-191 through -194): BBP11, Brady 1244, Brady 1344

Size	Mfr. No.	Cat. No.	Each	Pack of
Freezerbondz Polyester				
31.75W × 9.530mmH	PTL-112-490	**11-877-244**	----	500/61.20
41.28W × 15.240mmH	PTL-76-490	**11-877-245**	----	250/63.70
48.26W × 25.400mmH	PTL-78-490	**11-877-246**	----	250/87.40
55.88W × 38.100mmH	PTL-113-490	**11-877-247**	----	100/49.05
98.43W × 38.100mmH	PTL-114-490	**11-877-248**	----	100/73.70
31.75W × 9.530mmH	THT-154-490-3	**11-877-249**	----	3000/177.70
41.28W × 15.240mmH	THT-155-490-3	**11-877-250**	----	3000/215.50
48.26W × 25.400mmH	THT-156-490-3	**11-877-251**	----	3000/356.00
Freezerbondz II Polyester				
25.4W × 9.53mm with 9.53mm dia vial top label H	THT-249-492-1.5-SC	**11-877-191**	113.60	----
25.4W × 12.7mm with 9.53mm dia vial top label H	THT-250-492-1.5-SC	**11-877-192**	154.30	----
25.4W × 12.7mm with 11.18mm dia vial top label H	THT-251-492-1.5-SC	**11-877-193**	154.30	----
Nylon Cloth				
25.4W × 9.53mm with 9.53mm dia vial top label H	THT-249-499-1.5-SC	**11-877-194**	86.40	----

Fisherbrand® Tamper-Evident Labels

Cost-efficient means of security

- For use with tamper-evident seals
- Permanent adhesive
- Available in white paper stock imprinted with "Do Not Use If Protective Seal Is Broken" or blank red acetate

15-956, 15-955

Material	L × W	Cat. No.	Pack of 1000
Imprinted white paper stock	3.87 × 0.50" (9.8 × 1.3cm)	**15-955**	20.20
Blank red acetate	5.50 × 0.50" (14 × 1.3cm)	**15-956**	56.80

Fisherbrand® HMIG and NFR Write-On Labels

Ideal for adding vital hazard information to surfaces of small bottles, cans and other containers

- HMIG paper labels are large enough to include the chemical name, common name and manufacturer's name
- NFR labels let you write in the chemical name, owner, date and hazard rating

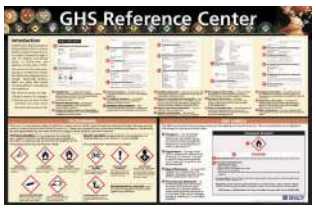
18-999-789 (top); 18-999-788 (bottom)

ORDERING INFORMATION:
Both labels measure 3.87L × 1.50"W (9.8 × 3.8cm).

Description	Cat. No.	Pack of 1000
HMIG Write-On Labels	**18-999-788**	56.30
NFR Write-On Labels	**18-999-789**	48.25

Brady™ GHS Reference Center Poster

Poster combines important changes in one format



19-141-908

- Large format
- Details information on: new SDS format and sections, new GHS-formatted label elements and GHS Hazard Pictograms
- Dimensions: 39.5W × 25.5"H

Size	Mfr. No.	Cat. No.	Each
39.5 × 25.5" (100 × 64.7cm)	133209	**19-141-908**	33.55

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

Labeling Tapes and Dispensers

Fisherbrand® 0.75" Colored Label Tapes

0.75" (19mm) wide rolls available in two lengths and a variety of colors

15-901 Series

- Strong, durable, and oil-, water- and acid-resistant
- Excellent for color coding
- Withstand temperatures from -23° to +121°C (-10° to +250°F)
- Can be written on with pen, pencil or permanent marker
- Stick to most surfaces including glass, plastic and metal
- Remove cleanly and easily

NOTES:
Tapes are supplied without dispenser.

Color	Cat. No.	Pack of 4	4 Pack Per Case	Cat. No.	Pack of 4
14 yd. (13m) Rolls				*60 yd. (55m) Rolls*	
Aqua	**15-901-5H**	38.95	130.50	**15-901-20H**	81.40
Blue	**15-901-5G**	38.95	129.90	**15-901-20G**	81.40
Copper	**15-901-5J**	38.95	133.10	**15-901-20J**	81.40
Gray	**15-901-5K**	38.95	133.10	**15-901-20K**	81.40
Green	**15-901-5C**	38.95	129.90	**15-901-20C**	81.40
Lavender	**15-901-5L**	38.95	130.50	**15-901-20L**	81.40
Lime	**15-901-5M**	38.95	130.50	**15-901-20M**	81.40
Orange	**15-901-5F**	38.95	130.50	**15-901-20F**	81.40
Pink	**15-901-5D**	38.95	130.50	**15-901-20D**	81.40
Red	**15-901-5E**	38.95	129.90	**15-901-20E**	81.40
Rose	**15-901-5N**	38.95	133.10	**15-901-20N**	81.40
Violet	**15-901-5Q**	38.95	133.10	**15-901-20Q**	81.40
White	**15-901-5A**	38.95	129.90	**15-901-20A**	81.40
Yellow	**15-901-5B**	38.95	129.90	**15-901-20B**	81.40

Fisherbrand® 1" Colored Label Tapes

1" (25mm) wide rolls available in two lengths and a variety of colors

15-901 Series

- Strong, durable, and oil-, water- and acid-resistant
- Excellent for color coding
- Withstand temperatures from -23° to +121°C (-10° to +250°F)
- Can be written on with pen, pencil or permanent marker
- Stick to most surfaces including glass, plastic and metal
- Remove cleanly and easily

Note: 14 yd. (13m) rolls have a 1" core; 60 yd. (55m) rolls have a 3" core.

NOTES: Tapes are supplied without dispenser

Color	Cat. No.	Pack of 3	4 Pack Per Case	Cat. No.	Pack of 3
14 yd. (13m) Rolls				*60 yd. (55m) Rolls*	
White	**15-901-10A**	37.30	127.10	**15-901-25A**	80.60
Yellow	**15-901-10B**	37.30	127.10	**15-901-25B**	80.60
Green	**15-901-10C**	37.30	127.10	**15-901-25C**	80.60
Pink	**15-901-10D**	37.30	127.10	**15-901-25D**	80.60
Red	**15-901-10E**	37.30	127.10	**15-901-25E**	80.60
Orange	**15-901-10F**	37.30	127.10	**15-901-25F**	80.60
Blue	**15-901-10G**	37.30	127.10	**15-901-25G**	80.60
Aqua	**15-901-10H**	37.30	127.10	**15-901-25H**	80.60
Copper	**15-901-10J**	37.30	127.10	**15-901-25J**	80.60
Gray	**15-901-10K**	37.30	127.10	**15-901-25K**	80.60
Lavender	**15-901-10L**	37.30	127.10	**15-901-25L**	80.60
Lime	**15-901-10M**	37.30	127.10	**15-901-25M**	80.60
Rose	**15-901-10N**	37.30	127.10	**15-901-25N**	80.60
Violet	**15-901-10Q**	37.30	127.10	**15-901-25Q**	80.60

Fisherbrand® White Autoclave Tapes

For steam sterilization

- Excellent adhesive backing sticks securely
- Removes easily without leaving residue
- White steam-sensitive stripes turn black when passed through a steam sterilization cycle

15-905

ORDERING INFORMATION:
Each roll is 60 yd. (55m) long.

Width	Cat. No.	Each
0.50" (12.7mm)	**15-903**	7.64
0.75" (19mm)	**15-904**	8.18
1" (25.4mm)	**15-905**	10.62

LOOKING FOR MORE TAPE?

Please refer to the tape section.

Lamps/Lighting

Spectrophotometer Lamps

Fisherbrand® Data-Coded Hollow Cathode 1.5" dia. Lamps for Varian™ Instruments

Element	Window	Gas Fill	Cat. No.	Each
Calcium	UVG	Neon	**14-386-116B**	640.50
Cobalt/Chromium/Copper/Iron/Manganese/Nickel	Quartz	Neon	**14-386-115P**	1119.00
Copper	UVG	Neon	**14-386-116D**	568.00
Lead	Quartz	Neon	**14-386-115G**	609.88
Silicon	Quartz	Neon	**14-386-115L**	619.00
Zinc	Quartz	Neon	**14-386-115N**	590.50

Fisherbrand® Data-Coded Hollow Cathode 2" dia. Lamps for Perkin-Elmer™ Instruments

Element	Window	Gas Fill	Cat. No.	Each
Cobalt	UVG	Neon	**14-386-118D**	953.50
Copper	UVG	Neon	**14-386-119D**	875.50
Iron	UVG	Neon	**14-386-118F**	817.50
Lead	Quartz	Neon	**14-386-118G**	854.00
Zinc	Quartz	Neon	**14-386-118P**	843.00

Fisherbrand® Hollow Cathode Multi-Element 1.5" Lamps

- Quartz windows with neon gas fill (sodium/potassium has UV glass)
- Lamps are multi-element and have 1.5" diameter (37mm) bodies
- For use in all AA spectrophotometers except Perkin-Elmer™ instruments
- May be adapted to fit PE™ instruments using the 14-386-102Z
- Adapter Kit (sold separately)

Elements	Cat. No.	Each
Calcium/Magnesium/Zinc	**14-386-104G**	1031.00
Cobalt/Chromium/Copper/Iron/Nickel/Manganese	**14-386-103T**	972.00
Copper/Zinc/Iron/Manganese	**14-386-103G**	1088.55
Sodium/Potassium	**14-386-103S**	1027.00

Fisherbrand® Hollow Cathode Multi-Element 2" Lamps

- With quartz windows and neon gas fill (sodium/potassium lamp has UV glass)
- Lamps have 2" dia. (51mm) bodies to fit Perkin-Elmer™ spectrophotometers

14-386-110 Series

Elements	Cat. No.	Each
Calcium/Magnesium	**14-386-110A**	331.26
Chromium/Cobalt/Copper/Iron/Manganese/Nickel	**14-386-110K**	1214.63
Sodium/Potassium	**14-386-110D**	1157.00

Fisherbrand® Hollow Cathode Lamps Single-Element 1.5" dia. Lamps

- For all AA spectrophotometers except Perkin-Elmer™
- Argon or neon gas fill, except for Deuterium lamp which is filled with deuterium

14-386-101F

- Window materials are quartz, borosilicate and UV glass
- Lamps are single-element and 1.5" (37mm) in diameter
- May be adapted to PE instruments using Adapter Kit (sold separately)

Element	Window	Gas Fill	Cat. No.	Each
Aluminum	UVG	Neon	**14-386-100D**	517.00
Antimony	Quartz	Neon	**14-386-101J**	565.50
Arsenic	Quartz	Neon	**14-386-104N**	619.45
Barium	B. Sil.	Argon	**14-386-100Z**	661.00
Cadmium	Quartz	Neon	**14-386-101M**	546.50
Calcium	UVG	Neon	**14-386-100B**	578.00
Chromium	UVG	Neon	**14-386-101N**	573.00
Cobalt	UVG	Neon	**14-386-101G**	691.67
Copper	UVG	Neon	**14-386-100A**	505.00
Lead	Quartz	Neon	**14-386-101F**	524.50
Lithium	B. Sil.	Argon	**14-386-102V**	642.00
Magnesium	Quartz	Neon	**14-386-101X**	557.96
Manganese	UVG	Neon	**14-386-101Q**	567.86
Mercury	UVG	Neon	**14-386-100Y**	718.50
Molybdenum	UVG	Neon	**14-386-101R**	673.00
Nickel	Quartz	Neon	**14-386-100H**	541.71
Potassium	B. Sil.	Neon	**14-386-101D**	546.50
Silicon	Quartz	Neon	**14-386-101T**	562.50
Silver	UVG	Argon	**14-386-100C**	638.00
Sodium	UVG	Neon	**14-386-102AA**	578.00
Tin	Quartz	Neon	**14-386-101V**	641.91

Fisherbrand® Hollow Cathode Single-Element 2" dia. Lamps

14-386-106C

- Lamps are single-element and have 2" (51mm) diameter
- Direct replacement lamps for Perkin-Elmer™ nondata-coded instruments
- Argon or neon gas fills
- Window materials are quartz, borosilicate glass or UV glass

Element	Window	Gas Fill	Cat. No.	Each
Arsenic	Quartz	Neon	**14-386-104R**	805.50
Cadmium	Quartz	Neon	**14-386-104W**	759.50
Chromium	UVG	Neon	**14-386-105A**	715.55
Iron	UVG	Neon	**14-386-105S**	649.50
Lead	Quartz	Neon	**14-386-105AA**	688.00
Manganese	UVG	Neon	**14-386-105Y**	696.00
Nickel	Quartz	Neon	**14-386-106C**	654.96
Selenium	Quartz	Neon	**14-386-106S**	864.00
Silicon	Quartz	Neon	**14-386-106T**	750.50
Zinc	Quartz	Neon	**14-386-107M**	646.44

Spectronics Corporation Lamp Housing

For Q-series UV magnifier lamp

11-992-10

Description	Mfr. No.	Cat. No.	Each
Housing for Q-series UV Magnifier Lamp	106361	**11-992-10**	43.50

UVP™ DC 24V Hybridization Oven Motor

Supply motor for UVP

Description	Voltage	Mfr. No.	Cat. No.	Each
DC Motor (Hybridization Ovens)	24V	46-0001-01	**UVP46000101**	246.50

General Purpose

Fisher Scientific™ Flexible-Arm Light

Three-point articulating arm allows lamp to be moved 360° and adjusted to any position

Designed for inspection, sample examination and electronics quality control.

- Finger control pivots, raises and lowers lamp
- Light (35W halogen) closely resembles daylight for correct color detection
- Spring counterbalance for easy movement
- Weighted metal base for stability

15-077-66

ORDERING INFORMATION:
Base diameter: 7" (17.8cm).
Total weight: 8 lb. (3.63kg).
Electrical Requirements: 115V.

INCLUDES:
White reflector and 35w bright halogen white light bulb

CERTIFICATIONS: UL listed.

Arm Length	Cat. No.	Each
20" (50.8cm)	**15-077-65**	73.00
28" (78.7cm)	**15-077-66**	92.10

UVP™ Mini UV Lamps

UVP Mini UV Lamps

- Battery-operated 4W lamps with lightweight, pocket-size design
- Features impact-resistant plastic housing with attached nylon strap
- Select from models with 254nm or 365nm UV or combination of both
- Applications include fluorescence and inspection for field use

REQUIRES:
Four size AA batteries (not included)

Wavelength	Mfr. No.	Cat. No.	Each
254nm or 365nm UV	95-0188-02	**UVP95018802**	138.80

Magnifiers

Bausch & Lomb™ ErgoTouch™ Acrylic Magnifying Glass — 2X Magnifier

Durable for use in any environment

12-036 Series

- 2X magnification
- Round style with inset high-power magnifier lens for detailed viewing at 4X magnification
- Rectangular style with inset high-power magnifier lens for detailed viewing at 6X magnification
- ErgoTouch grip is molded to fit your hand
- Stabilizing edge for two-hand positioning

Size	Mfr. No.	Cat. No.	Each	Pack of
Round				
4" dia. (10.2cm)	81-33-04	**12-036B**	48.00	6/241.00
5" dia. (12.7cm)	81-33-05	**12-036C**	65.90	3/167.00
Rectangular				
2 × 4" (5.1 × 10.2cm)	81-33-76	**12-035A**	34.40	6/172.70

Fisher Scientific™ Magnifier Lamp

2X magnification

12-071-10

- Highly polished optical glass
- Convenient front handle
- Clamps vertically or horizontally to top or side of any edge
- Sliding shutter cover protects lens when not in use
- Large viewing area, 4 × 2.5" (10.2 × 6.4cm)

INCLUDES:
Lamp and incandescent 60w bulb

COMPLIANCE:
UL listed and CSA approved

Description	Cat. No.	Each
Magnifier Lamp	**12-071-10**	106.90

Fisher Scientific™ Magnifiers

For laboratory use and other precision scientific work

12-071-6A, -6B, -6C

Large Magnifier

- Illuminated 2X magnification with 4X spot
- Window is 2.75 × 2.75" (7 × 7cm)
- Overall dimensions: 8.5L × 3W × 1"H (21.6 × 7.6 × 2.5cm)

Medium Magnifier

- Illuminated dual 3X and 10X magnifiers
- Window is 1.75 × 1.75" (4.4 × 4.4cm)
- Overall dimensions: 6.5L × 2W × 0.75"H (16.5 × 5.1 × 1.9cm)

Small Magnifier

- 8X magnification
- Adjustable focusing
- Window is 1" (2.5cm) dia.

INCLUDES: Illuminated Large and Medium models come with AA batteries.

Size	Weight	Cat. No.	Each
Large	7 oz. (198g)	**12-071-6A**	41.70
Medium	4 oz. (113g)	**12-071-6B**	31.05
Small	1 oz. (28g)	**12-071-6C**	24.30

Halogen Illuminated Desk Magnifier

1.75X magnification, 45" (114cm) reach

11-990-56 with optional 11-990-60A supplementary magnifier

- Suspension spring-balanced lamp
- Three-diopter glass lens, 5" (30cm)
- 9' (2.7m) three-conductor grounded cord
- Extra 110V outlet at base of lamp

ORDERING INFORMATION:

- 110V, 50/60Hz
- 100w halogen quartz bulb delivers 700 foot-candles — 3000K bright white light lasting 2000 hours
- Optional supplementary lenses available: 3-diopter (11-990-60A), order separately

INCLUDES:
VC-11 adjustable clamp; 100w halogen quartz bulb.

Description	Cat. No.	Each
Illuminated Desk Magnifier	**11-990-56**	503.48
3-Diopter Magnifier	**11-990-60A**	33.18

Mailers

Fisherbrand® Cardboard Mailing Cartons

Heavy cardboard containers have metal bottoms and screw caps

- Water testing mailers
- For bottles and samples; can also be used for shipping medical and dental apparatus; fully assembled with corrugated pads in cover and bottom of tube

03-520 Series

Diameter × Height	Cat. No.	Case of
2.25 × 5.75" (5.7 × 14cm)	**03-520A**	36/173.25
1.75 × 7" (4.4 × 18cm)	**03-520B**	24/128.11
2.25 × 6.75" (5.7 × 17cm)	**03-520C**	36/216.41
3.12 × 7.5" (7.9 × 19cm)	**03-520D**	23/214.80
4 × 10" (10 × 25cm)	**03-520E**	16/216.93

ThermoSafe™ LabMailer for Small Bottles

Lightweight EPS containers are shock absorbing, temperature insulating and save mailing costs

- Molded cavity holds bottles or containers up to 118mL
- Two-piece assembly with snap-lock fasteners holds contents in place
- Rectangular shape outside for easy storage

ORDERING INFORMATION:
Inside: 5.25L × 2W × 2.25"D (133 × 51 × 57mm)
Outside: 6.25L × 3.25W × 3.12"H
(159 × 79 × 79mm)
Wall thickness: 0.5" (13mm)
Weight empty: 0.75 oz. (21g)

03-525

Description	Mfr. No.	Cat. No.	Case of 100
Lab Mailer for Small Bottles	373	**03-525**	90.90

ThermoSafe™ LabMailer Specimen Tube Mailers

Shock-absorbing polystyrene foam mailers accept sample tubes with rubber or screw caps

- Two-piece assembly with snap-lock fasteners holds contents in place
- Ideal for mailing or transporting nonhazardous blood, urine or other lab samples
- Includes slotted area for up to four slides

03-527, 03-531-20, 03-530-5

No. of Tubes	Tube Volume	Tube Length	Tube Diameter	Tube Cavity Dimensions	Mfr. No.	Cat. No.	Case of
1	3, 5, 7 or 10mL	75 to 103mm	10.25 to 16mm	110 x 16mm	356	**03-527**	300/171.50
3	2 Specimens (107 x 16mm)	----	----	107 x 16mm	364	**03-525-22A**	150/114.50
3	3, 5, 7 or 10mL	75 to 103mm	10.25 to 16mm	105 x 17mm	409	**03-528**	150/102.90
5	3 or 5mL	75 to 103mm	10.25 to 13mm	105 x 13mm	341	**03-531-20**	150/102.70
5	7, 10, 15 or 25mL	75 to 150mm	16mm	170 x 16mm	339	**03-530-35**	100/127.60
8†	5, 7 or 10mL	75 to 103mm	10.25 to 16mm	113 x 18mm	362	**03-530-5**	50/62.90

ThermoSafe™ Insulated Shipper for Pharmaceutical Reagents

Already assembled in 200 lb. test corrugated carton — just seal and label

Two-piece shippers with extra-thick insulating walls of expanded polystyrene.

- Ideal for safe storage and delivery of pharmaceuticals, specimens, serums, vaccines, organs and culture packs
- Economical, lightweight, reusable, recyclable
- Dimensions (exterior): 14.87 x 13.125 x 12.125"; Dimensions (interior): 11.75 x 10 x 9.125"

ORDERING INFORMATION:

- Wall thickness: 1.5" (38mm)
- Weight empty: 3 lb. (1.4kg)

03-529-1

Outside L × W × H	Inside L × W × D	Mfr. No.	Cat. No.	Case of 6
14.87 × 13.12 × 12.12" (38 × 33 × 31cm)	11.75 × 10 × 9.125" (30 × 25 × 22cm)	326	**03-529-1**	138.40

ThermoSafe™ LabMailer Mini-Mailers

Two-piece polystyrene mailer with 1" thick (25mm) insulated walls

- Interlocking cover and body supplied with tape grooves for adequate sealing
- U-tek™ phase change material, reusable pack fits perfectly in top half for added temperature protection (see Mfr. No. 418)
- Safely stores and delivers pharmaceuticals, specimens, serums, vaccines, organs and culture packs

03-528-10

APPLICATIONS:
Ideal for transporting fragile items such as vials, tubes and bottles

ORDERING INFORMATION:

- Outside: 8L × 6W × 5.25"H (20 × 15.2 × 13.3cm)
- Inside: 5.88L × 4.63W × 3"D (15 × 11.1 × 7.6cm)
- Weight empty: 2.63 oz. (74g)

Description	Mfr. No.	Cat. No.	Case of 24
Insulated Lab Mailers for Vial, Tube and Bottle, tissue flasks w/75cm² growth area	440	**03-528-10**	93.90

ThermoSafe™ Diagnostic Shipper, Three Tube Mailer System

Mailer secures up to three 10mL tubes

- 95kPa certified receptacles (tubes or bags depending on kit)
- Ready-to-use
- Sufficient absorbent material to absorb maximum capacity of liquid
- IATA Packing Instruction 650, Biological Substance, Category B label

03-527D

INCLUDES: Three 10mL vial tubes, EPS foam mailer with lid (Cat. No. 03-528-26), absorbent material, water-resistant tape, pressure-lock plastic bag, 200 lb. test corrugated shipping carton with lock tab and instructions (Cat. No. 03-527D for complete system).

COMPLIANCE: Meets U.S. Postal Regulations, DOT regulations and IATA Packaging Instruction 650; tubes and shipping system validated for the transport of diagnostic samples.

Description	Mfr. No.	Cat. No.	Case of 33
3-Tube diagnostic specimen shipping system composed from Mfr. Nos. 476 and 474T; includes 3 × 10mL tubes	473	**03-527D**	179.80
3-Tube specimen mailer, foam unit only	476	**03-528-26**	45.75

ThermoSafe™ Insulated Shipper Multipurpose Containers

Ideal for the safe storage and transport of most refrigerated or frozen materials

Use for culture packs, serums, vaccines and laboratory specimens.

- Some models include corrugated carton and a molded one-piece insulation expanded polystyrene core
- Shock absorbing and temperature insulating
- Water- and vapor-resistant; lightweight
- Large enough for shipping tubes, vials and a wide assortment of lab containers with dry ice

03-525 Series Shippers

Packaging	Interior L x W x D	Exterior L x W x H	Wall Thickness	Mfr. No.	Cat. No. FS	Case of
Multi-purpose, dome-style foam container assembled in corrugated carton	8 × 5.875 × 4.25"	11 × 9 × 7.25"	1.5"	318	**11-676-14**	12/166.20
Multi-purpose, dome-style foam mailer assembled in corrugated carton	8 × 5.875 × 7"	11 × 9 × 10"	1.5"	413	**03-525-36**	12/184.70
Multi-purpose, dome-style foam container assembled in corrugated carton	8 × 5.875 × 8.875"	11 × 9 × 11.875"	1.5"	321UPS	**03-530-52**	8/133.10
Multi-purpose, dome-style foam container assembled in corrugated carton	8 × 5.875 × 11.5"	11 × 9 × 14.5"	1.5"	324UPS	**03-530-54**	8/144.50
Multi-purpose, dome-style foam container assembled in corrugated carton	11 × 11 × 11.625"	14 × 14 × 14.625"	1.5"	355	**03-530-17**	4/100.20
Multi-purpose, dome-style foam container assembled in corrugated carton	13.125 × 9.25 × 6"	15.5 × 11.5 × 8"	1"	479	**03-528-27**	8/150.30
Multi-purpose, dome-style foam container assembled in corrugated carton	12 × 12 × 11.5"	16 × 16 × 15.5"	2"	453	**03-530-43**	3/114.30
Multi-purpose, dome-style foam container assembled in corrugated carton	19.375 × 12.375 × 12.25 "	20.375 × 15.375 × 15.375"	1.5"	398	**03-530-32**	2/67.00
Multi-purpose container; foam only	8 × 5.75 × 4.25"	11 × 9 × 7.25"	1.5"	316	**03-530-2**	12/130.00
Multi-purpose foam container assembled in corrugated carton	10.5 × 7.25 × 10"	13.75 × 10.5 × 13.5"	1.5"	317UPS	**03-530-51**	6/143.40
Multi-purpose foam container assembled in corrugated carton	11.625 × 9.875 × 7"	14.875 × 13.25 × 10.125"	1.5"	325UPS	**03-530-55**	6/128.90
Multi-purpose foam container assembled in corrugated carton	10 × 10 × 7"	14 × 14 × 10"	1.75"	448UPS	**03-530-73**	4/89.10

Melting Point

METTLER TOLEDO™ MP50 One Click™ Melting Point System

For simple, automatic, recorded results

Ideal starter model requires only a single click to run a melting point determination.

Simple Operation

- Easy one click operation
- Fully automated; runs unattended
- Concurrent measurement of up to six samples

VGA Color Touchscreen

- Direct, one-finger control
- Bright, clear, high-visibility display

Video Recording

- Grayscale video recording of every measurement
- Allows easy visual inspection of unexpected results

Playback on Instrument

- High-resolution video color playback
- No external computer required
- Intensity diagram can be viewed at any point during playback

01-915-550

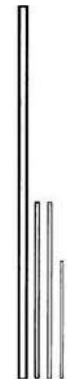
COMPLIANCE:
US Pharmacopeia (USP 741), European Pharmacopeia (Ph. Eur. 2.260), Japanese Industry Standard (JIS 0064), ASTM™ D1519

Specifications	
Temperature Range	RT up to 300°C
Heating Rate	0.1 to 20°C/min.
Heating time up to $T_{max.}$	4 min.
Cooling time from $T_{max.}$	6.5 min.
Number of Capillaries	Up to 4, <1.8mm dia.
One Click™ (short cuts)	Max. 12
Video	Gray-scale video, >6x magnification
Video run time	30 min.
Number of stored results	Last 10
GLP-conform protocol	Yes
Languages	English, Spanish, Chinese, German and Japanese
Connection to a Barcode Reader	Yes (USB)
Connection to a Printer	USB-P25 Compact printer
User	Yes
Norm conformity	European Pharmacopeia (Ph.Eur.) 2.2.60, United States Pharmacopeia (USP 741), Japanese Industry Standard (JIS) K 0064, ASTM D1519
Optional IQ/OQ availability	Yes
Measurement Mode	Pharmacopeia

Description	Mfr. No.	Cat. No.	Each
METTLER TOLEDO MP50 One Click System	51142501	**01-915-550**	7190.00

Corning™ Pyrex™ Melting Point Capillaries

- Made from Code 7800 glass
- Inside diameter range for all tubes, 1.1–1.2mm
- Packaged 100 capillaries per vial



08-261-2A

Length	Wall Thickness	End Treatment	Mfr. No.	Cat. No.	Pack of 100	Case of 20 Vials
100mm	0.2mm	Both ends open	9530 1	**08-261-2A**	19.71	196.87
100mm	0.25mm	Both ends open	9530 2	**08-261-2B**	19.78	198.73
90mm	0.2mm	One end sealed	9530 3	**08-261-2C**	14.27	208.12
90mm	0.25mm	One end sealed	9530 4	**08-261-2D**	14.10	205.84

Kimble-Chase 51 Expansion Borosilicate Glass Melting Point Capillaries

- Made from Kimax™-51 borosilicate glass
- Approximate O.D.: 1.5 to 1.8mm
- Thickness of wall: 0.2mm
- Packed in vials with 100 capillaries per vial

12-141-1

Length	End Treatment	Mfr. No.	Cat. No.	Case of 20 Vials
100mm	Both ends open	34500 99	**12-141-1**	202.04
90mm	One end sealed	34505 99	**12-141-8**	239.59

Kimble-Chase 51 Expansion Borosilicate Glass Melting Point Capillaries with Smaller I.D.

- Made from 51 expansion borosilicate glass
- Approximate I.D.: 0.8 to 1.1mm
- Thickness of wall: 0.25mm
- Packed in vials with 100 capillaries per vial

COMPLIANCE:
Comply with U.S. Pharmacopeia XXI.

12-141-2

Length	End Treatment	Mfr. No.	Cat. No.	Case of 20 Vials
100mm	Both ends open	34502 99	**12-141-2**	207.71
90mm	One end sealed	34507 99	**12-141-10**	241.99

Membranes

GE™ Healthcare Amersham™ Western Blotting Membranes

GE Healthcare Life Sciences offers a broad selection of nitrocellulose (NC) and polyvinylidine difluoride (PVDF) Western blotting membranes, with pore sizes ranging from 0.1 to 0.45µm to suit your application requirements.

Amersham Western Blotting Membrane Family Includes:

- **Amersham Protran,** NC membranes with high affinity for proteins, great blocking ability and compatibility with a range of detection methods
- **Amersham Protran Premium,** NC membranes with low background and high sensitivity and resolution, recommended for fluorescent detection systems
- **Amersham Protran Supported,** NC membranes supported by an inert polyester nonwoven material, giving the membranes exceptional handling characteristics that allows for stripping and reprobing of the membrane
- **Amersham Hybond™ P,** PVDF membranes with low background and high sensitivity and resolution, for all labeling and detection systems, but particularly recommended for chemiluminescence detection
- **Amersham Hybond LFP,** PVDF membranes specifically optimized for fluorescence detection methods
- **Amersham Hybond SEQ,** PVDF membranes specifically designed for protein

45-004 Series

Description	Size	Quantity	Mfr. No. .1um	Cat. No.	Price	Mfr. No. .2um	Cat. No.	Price	Mfr. No. .45um	Cat. No.	Price
Nitrocellulose Membranes											
Amersham Protran	30cm × 4m	1 Roll	10600000	**45-004-000**	452.21	10600001	**45-004-001**	396.67	10600002	**45-004-002**	328.44
Amersham Protran Premium	30cm × 4m	1 Roll	----	**----**	----	10600004	**45-004-004**	403.02	10600008	**45-004-008**	266.56
Amersham Protran Supported	30cm × 4m	1 Roll	----	**----**	----	10600015	**45-004-015**	426.82	10600016	**45-004-016**	391.91
PVDF Membranes											
Amersham Hybond PVDF	100 × 100mm	25 Sheets	----	**----**	----	10600088	**45-004-069**	212.62	10600086	**45-004-114**	186.36
Amersham Hybond LFP 0.2 PVDF	25.4cm × 4m	1 Roll	----	**----**	----	10600022	**45-004-095**	597.45	----	**----**	----
Amersham Hybond SEQ 0.2 um PVDF	260cm × 4m	1 Roll	----	**----**	----	10600030	**45-004-022**	560.10	----	**----**	----
Amersham Hybond Sandwiches											
Amersham Hybond Sandwiches	80 × 90mm	10 Sandwiches	----	**----**	----	10600122	**45-004-094**	150.74	10600121	**45-004-118**	137.60
Amersham Hybond LF Sandwiches	80 × 90mm	10 Sandwiches	----	**----**	----	10600123	**45-004-101**	157.88	----	**----**	----

NOTE: *For a complete menu of Amersham membrane offerings, go to www.fishersci.com .*

EMD Millipore™ Immobilon™ PVDF Transfer Membranes

For Western blots and protein sequencing

Immobilon-P (0.45µm)

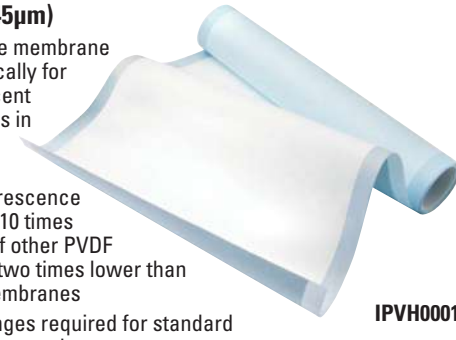
- Optimized for binding proteins transferred from a variety of gel matrices
- Suitable for chromogenic, chemiluminescent and radioactive detection
- Compared to nitrocellulose, Immobilon-P has improved handling characteristics and staining capabilities, increased solvent resistance and higher signal-to-noise ratio
- Rapid Immunodetection Method reduces detection time by two hours

Immobilon-P^{SQ} (0.2µm)

- For sequencing low-abundance or low-molecular-weight (<20,000 Daltons) proteins
- Produce high protein sequencing yields by high internal surface area for protein adsorption (repetitive yields typically >90%). No contaminating support polymers or surfactants
- Eliminates "blow through" that occurs when blotting low-molecular-weight proteins with larger pore size membranes

Immobilon-FL (0.45µm)

- Low fluorescence membrane designed specifically for use with fluorescent detection systems in Western blotting applications
- Background fluorescence is approximately 10 times lower than that of other PVDF membranes and two times lower than nitrocellulose membranes
- No protocol changes required for standard Western blotting procedures
- Suitable for use with fluorescent dyes and detection and imaging systems from major manufacturers



IPVH00010

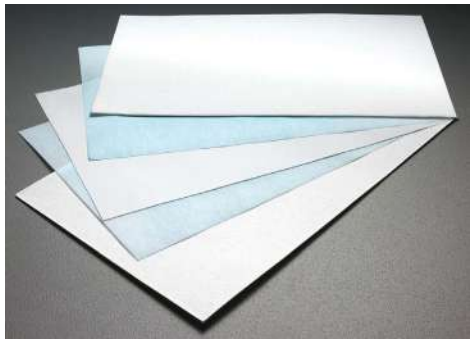
PVDF Membranes for Western Blotting Applications	
Application after Western Blot	Membrane of Choice (for most proteins)[1]
General immunodetection	Immobilon-P, Immobilon-FL
Low-molecular-weight protein or low-abundance protein blotting	Immobilon-P^{SQ}
Amino acid analysis	Immobilon-P, Immobilon-P^{SQ}, Immobilon-FL
Sequencing low-molecular-weight or low-abundance proteins	Immobilon-P^{SQ}

[1] *All proteins may not behave the same on a membrane surface; variability in properties such as charge, density, conformation or hydrophobicity may necessitate use of another Immobilon PVDF membrane for Western blotting.*

			0.45µm Immobilon-P			0.2µm Immobilon-P^{SQ}			0.45µm Immobilon-FL		
Format	**Dimensions**	**Quantity**	**Mfr. No.**	**Cat. No.**	**Price**	**Mfr. No.**	**Cat. No.**	**Price**	**Mfr. No.**	**Cat. No.**	**Price**
Sheet	8 × 10cm	Pk. of 10	IPVH08100	**IPVH 081 00**	132.10	ISEQ08100	**ISEQ 081 00**	134.20	----	----	----
Sheet	10 × 10cm	Pk. of 10	IPVH10100	**IPVH 101 00**	131.00	ISEQ10100	**ISEQ 101 00**	149.10	IPFL10100	**IPFL 101 00**	149.10
Sheet	20 × 20cm	Pk. of 10	IPVH20200	**IPVH 202 00**	276.00	ISEQ20200	**ISEQ 202 00**	307.50	IPFL20200	**IPFL 202 00**	313.50
Roll	26.5cm × 3.75m	1/pk.	IPVH00010	**IPVH 000 10**	363.29	ISEQ00010	**ISEQ 000 10**	392.00	IPFL00010	**IPFL 000 10**	452.00

EMD Millipore™ Immobilon™-P Blotting Sandwiches

Convenient, time-saving option for preparing multiple blots



IPSN 081 32

- Comprised of sheets of Immobilon-P membrane interleaved with precut sheets of chromatography-grade blotting paper

Size	Mfr. No.	Cat. No.	Pack of 20
7 × 8.4cm Sheet	IPSN07852	**IPSN 078 52**	153.40
8.5 × 13.5cm Sheet	IPSN08132	**IPSN 081 32**	290.00

EMD Millipore™ Immobilon™-NC Transfer Membrane

Maximum sensitivity with minimal background, suitable for both chemiluminescent and radioactive detection systems

- Mixed cellulose esters
- Wettability: hydrophilic
- Compatible stains: Amido black, India ink, Ponceau-S red, Colloidal gold, CPTS
- Primary binding mechanisms: electrostatic, hydrophobic
- Filter dimensions: 33 × 300cm
- Filter color: white
- Filter surface: plain
- Pore size: 0.45µm
- BSA adsorption: 160µg/cm^2
- Insulin adsorption: 117µg/cm^2
- Goat IgG adsorption: 259µg/cm2

APPLICATIONS:
Southern blotting, Northern blotting, Western blotting, Binding assays

Filter area	Pore size	Mfr. No.	Cat. No.	Each
33 × 300cm	0.45µm	HATF00010	**HATF00010**	370.00

Microbiology

Media

Dehydrated Media

Remel™ Dehydrated Media

Each lot of dehydrated culture media is tested against previous lot numbers to assure unformity and consistency from lot to lot

- Each raw material component is pretested before being used to manufacture the finished product
- Each medium is tested against a battery of organisms to assure that it performs as it should

Description	Size	Qty.	Cat. No.	Each
A				
A1 Medium	500g	Each	**R452012**	174.00
Amies Transport Medium	250g	Each	**R660253**	116.20
APT Agar	500g	Each	**R452302**	168.70
APT Broth	500g	Each	**R452312**	154.20
B				
BACTi Agar	500g	Each	**R451012**	300.00
BACTi Agar, Purified	500g	Each	**R451022**	616.00
BACTi Beef Extract	500g	Each	**R451052**	253.00
BACTi Casein Peptone, Acidic Digest of Casein	100g	Each	**R451091**	51.70
BACTi Casein Peptone, Acidic Digest of Casein	500g	Each	**R451092**	129.80
BACTi Casein Peptone, Pancreatic Digest of Casein	500g	Each	**R451102**	120.70
BACTi Gelatin Peptone, Pancreatic Digest of Gelatin	100g	Each	**R451141**	51.70
BACTi Gelatin Peptone, Pancreatic Digest of Gelatin	500g	Each	**R451142**	136.90
BACTi Hemoglobin	500g	Each	**R451402**	182.90
BACTi Meat Peptone	100g	Each	**R451171**	61.00
BACTi Meat Peptone	500g	Each	**R451172**	154.20
BACTi Soy Peptone	500g	Each	**R451182**	125.80
BACTi Yeast Extract	500g	Each	**R451202**	169.20
BACTi Yeast Extract	2.5kg	Each	**R451204**	819.00
BACTi Yeast Extract, Technical	500g	Each	**R451212**	94.40
Baird Parker Agar Base	500g	Each	**R452342**	357.00
BHI Agar (Brain Heart Infusion Agar)	100g	Each	**R452451**	101.20
BHI Agar (Brain Heart Infusion Agar)	500g	Each	**R452452**	238.50
BHI Broth	500g	Each	**R452472**	189.30
Bile Esculin Agar	500g	Each	**R452362**	270.00
Bile Esculin Azide Agar	500g	Each	**R452372**	255.00
Bismuth Sulfite Agar	500g	Each	**R452402**	228.00
Blood Agar Base No. 2	500g	Each	**R452412**	52.70
Bordet Gengou Agar Base	100g	Each	**R452431**	327.50
Bordet Gengou Agar Base	500g	Each	**R452432**	223.00
Brain Heart Infusion Broth	500g	Each	**R661322**	149.50
Brilliance Bacillus cereus Agar	100g	Each	**R661361**	597.50
Brilliance Bacillus cereus Agar	500g	Each	**R661362**	1191.00
Brilliant Green Agar	500g	Each	**R452552**	167.00
Brilliant Green Bile Broth 2%	500g	Each	**R452602**	164.00
Brilliant Green Bile Broth 2% w/MUG	100g	Each	**R452611**	165.30
Brilliant Green Sulfa Agar	500g	Each	**R452622**	201.50
Brucella Agar	500g	Each	**R452652**	204.50
Brucella Broth	100g	Each	**R452661**	49.70
Brucella Broth	500g	Each	**R452662**	173.40
Buffered CYE Agar Base	500g	Each	**R452352**	356.00
Buffered Peptone Water	500g	Each	**R452672**	137.20
Buffered Peptone Water	2.5kg	Each	**R452674**	613.50

Description	Size	Qty.	Cat. No.	Each
C				
Campylobacter Blood Free Selective Agar Base	500g	Each	**R452722**	168.90
Casman Agar Base	500g	Each	**R452772**	238.00
Cetrimide Selective Agar	500g	Each	**R452802**	215.50
CIN Agar Base	500g	Each	**R452942**	202.00
Citrate Azide Agar	500g	Each	**R452872**	112.40
CLED (Cystine-Lactose-Electrolyte Deficient) Medium	500g	Each	**R663012**	198.40
CLED Agar	500g	Each	**R452882**	404.00
Columbia Agar Base	500g	Each	**R452952**	263.50
Columbia Agar Base	2.5kg	Each	**R452954**	667.50
Columbia Broth	500g	Each	**R452972**	174.70
Columbia CNA Agar Base	100g	Each	**R452961**	56.00
Columbia CNA Agar Base	500g	Each	**R452962**	208.50
CTA Medium	100g	Each	**R452981**	42.25
D				
D/E Neutralizing Broth	100g	Each	**R453041**	58.60
D/E Neutralizing Broth	500g	Each	**R453042**	145.80
Demi-Fraser Broth Base	500g	Each	**R453462**	183.10
Dermatophyte Test Medium	500g	Each	**R453202**	268.00
E				
EC Medium	100g	Each	**R453301**	60.60
EC Medium w/MUG	500g	Each	**R453312**	500.00
EC Medium, Modified	500g	Each	**R453322**	149.80
EMB Agar Base	100g	Each	**R453411**	615.50
EMB Agar Base	500g	Each	**R453412**	209.50
EMB Agar, Levine	500g	Each	**R453402**	64.20
EMB Agar, Modified (HHT)	500g	Each	**R453392**	144.60
Endo Agar	100g	Each	**R453371**	51.70
Endo Agar	500g	Each	**R453372**	174.70
m-Endo Agar LES	500g	Each	**R453942**	197.90
m-Endo Broth MF	500g	Each	**R453952**	160.60
M-Enterococcus Agar	100g	Each	**R456071**	73.20
Eugon Agar	500g	Each	**R453422**	152.20
Eugonic Agar w/Lecithin, Polysorbate 80	500g	Each	**R458002**	104.10
Eugonic Broth w/Lecithin, Polysorbate 80, Triton X-100	500g	Each	**R458012**	93.70
F				
Fluid Thioglycollate Medium	500g	Each	**R453452**	100.60
Fraser Broth Base	500g	Each	**R453482**	162.40
G				
GN Broth (Hajna)	500g	Each	**R453512**	168.10
H				
HC Agar	500g	Each	**R453532**	89.40
HE Agar (Hektoen Enteric Agar)	500g	Each	**R453572**	293.50
Heart Infusion Agar	500g	Each	**R453522**	223.00
Heart Infusion Broth	100g	Each	**R453551**	96.30
Heart Infusion Broth	500g	Each	**R453552**	231.00
I				
Inhibitory Mold Agar	500g	Each	**R453592**	270.50
K				
KF Strep Agar	100g	Each	**R453611**	52.40
KF Strep Agar	500g	Each	**R453612**	150.70
Kligler Iron Agar	100g	Each	**R453621**	47.75
Kligler Iron Agar	500g	Each	**R453622**	173.50

Contd. on next page.

Remel™ Dehydrated Media, Contd.

Description	Size	Qty.	Cat. No.	Each
L				
Lactose Broth	10kg	Each	**R453656**	2090.00
Lactose Broth	500g	Each	**R453652**	126.70
Lauryl Tryptose Broth	500g	Each	**R453662**	120.30
Lauryl Tryptose Broth	2.5kg	Each	**R453664**	535.00
Lauryl Tryptose Broth w/MUG	100g	Each	**R453671**	224.50
Letheen Agar	500g	Each	**R453702**	228.50
Letheen Agar	2.5kg	Each	**R453704**	951.00
Letheen Agar Modified	500g	Each	**R453722**	208.50
Letheen Broth	2.5kg	Each	**R453714**	888.00
Letheen Broth Modified	500g	Each	**R453732**	206.00
Listeria Enrichment Broth	100g	Each	**R453691**	52.00
Listeria Enrichment Broth	500g	Each	**R453692**	127.20
Lowenstein Jensen Base	500g	Each	**R453752**	178.90
Lysine Decarboxylase Broth Tablets (Taylor modification)	100 tabs	Each	**R660089**	46.35
Lysine Iron Agar	500g	Each	**R453772**	267.00
Lysine Iron Agar, Modified	500g	Each	**R453792**	236.50
M				
MacConkey Agar	500g	Each	**R453802**	130.90
MacConkey Agar	2.5kg	Each	**R453804**	618.00
MacConkey Agar Base	100g	Each	**R453811**	63.40
MacConkey Agar Base	500g	Each	**R453812**	209.50
MacConkey Sorbitol Agar	500g	Each	**R453852**	185.90
MacConkey Sorbitol Agar	2.5kg	Each	**R453854**	727.00
Malonate Broth Modified	100g	Each	**R453881**	177.20
Malt Extract Agar	500g	Each	**R453892**	209.50
Mannitol Salt Agar	100g	Each	**R453901**	43.05
Mannitol Salt Agar	500g	Each	**R453902**	91.00
Mannitol Salt Agar	2.5kg	Each	**R453904**	427.00
M-Broth	500g	Each	**R453782**	188.00
M-Broth	2.5kg	Each	**R453784**	815.50
Middlebrook 7H10 Agar	500g	Each	**R453982**	244.50
Middlebrook 7H11 Agar	100g	Each	**R454001**	63.60
Middlebrook 7H11 Agar	500g	Each	**R454002**	233.50
Middlebrook 7H9 Broth	500g	Each	**R454012**	195.80
MRS Agar	500g	Each	**R454052**	194.70
Mueller Hinton Agar	500g	Each	**R454082**	145.50
Mueller Hinton Agar	2.5kg	Each	**R454084**	1207.00
Mycobiotic Agar	500g	Each	**R454112**	282.50
Mycological Agar, Low pH	500g	Each	**R454132**	193.40
Mycoplasma Broth Base	500g	Each	**R454172**	177.20
N				
Nutrient Agar	100 tabs	Each	**R660049**	46.30
Nutrient Agar	500g	Each	**R454182**	211.50
Nutrient Agar w/MUG	500g	Each	**R454212**	571.50
Nutrient Broth	500g	Each	**R454202**	180.50
O				
Oxford Agar Base, Modified	500g	Each	**R454232**	250.00
P				
Peptone Water	500g	Each	**R454242**	119.30
Phenol Red Agar Base	500g	Each	**R454262**	176.00
Phenol Red Broth Base	500g	Each	**R454272**	126.30
Phenol Red Dextrose Broth	500g	Each	**R454282**	125.40
Phenylethyl Alcohol Agar (PEA)	100g	Each	**R454301**	80.40
Phenylethyl Alcohol Agar (PEA)	500g	Each	**R454302**	176.90
Potato Dextrose Agar	500g	Each	**R454312**	180.80
Potato Dextrose Agar	2.5kg	Each	**R454314**	784.00
Potato Flake Agar	500g	Each	**R454322**	175.50

Description	Size	Qty.	Cat. No.	Each
P				
Presence-Absence Broth	500g	Each	**R454292**	151.20
Presence-Absence Broth	2.5kg	Each	**R454294**	696.00
Pseudomonas F Agar (FLO Agar)	500g	Each	**R454332**	268.00
Pseudomonas Isolation Agar	500g	Each	**R454392**	241.50
Pseudomonas P Agar (TECH Agar)	500g	Each	**R454342**	238.50
Purple Broth Base	100g	Each	**R454351**	45.95
Purple Broth Base	500g	Each	**R454352**	156.90
R				
R2A Agar	500g	Each	**R454372**	189.70
Rappaport-Vassiliadis R10 Broth	100g	Each	**R456091**	80.20
Rappaport-Vassiliadis R10 Broth	500g	Each	**R456092**	179.00
S				
Sabouraud Dextrose Agar (pH 5.6)	500g	Each	**R454462**	104.70
Sabouraud Dextrose Agar (pH 5.6)	2.5kg	Each	**R454464**	549.00
Sabouraud Dextrose Agar, Emmons	500g	Each	**R454472**	182.40
Schaedler Agar	500g	Each	**R454522**	206.50
Selenite Broth	100g	Each	**R454581**	51.80
Selenite Broth	500g	Each	**R454582**	126.80
Selenite Cystine Broth	500g	Each	**R454592**	131.50
SIM Medium	100g	Each	**R454411**	50.60
SIM Medium	500g	Each	**R454412**	160.20
Simmons Citrate Agar	500g	Each	**R454652**	178.70
Standard Methods Agar	500g	Each	**R454702**	151.80
Standard Methods Agar	2.5kg	Each	**R454704**	733.00
T				
TAT Broth Base	500g	Each	**R454792**	168.70
TCBS Agar	500g	Each	**R454752**	193.50
Tergitol 7 Agar	500g	Each	**R454802**	228.00
Tetrathionate Broth Base	100g	Each	**R454821**	41.75
Tetrathionate Broth Base	2.5kg	Each	**R454824**	418.50
Thiogel Medium	100g	Each	**R454841**	418.50
Thiogel Medium	500g	Each	**R454842**	288.00
Thioglycollate Medium w/o Indicator	100g	Each	**R454901**	59.10
Thioglycollate Medium w/o Indicator	500g	Each	**R454902**	175.70
Triple Sugar Iron Agar (TSI Agar)	500g	Each	**R454982**	121.50
Tryptic Soy Agar	500g	Each	**R455002**	111.20
Tryptic Soy Agar	2.5kg	Each	**R455004**	486.50
Tryptic Soy Agar	10kg	Each	**R455006**	1986.00
Tryptic Soy Agar w/ Lecithin, Polysorbate 80	500g	Each	**R455032**	154.40
Tryptic Soy Agar, RapiDCM	1L	20/Pk.	**R4550001**	243.50
Tryptic Soy Broth (TSB) (Soybean Casein Digest)	500g	Each	**R455052**	115.60
Tryptic Soy Broth (TSB) (Soybean Casein Digest)	2.5kg	Each	**R455054**	315.00
Tryptic Soy Broth (TSB) (Soybean Casein Digest)	10kg	Each	**R455056**	1177.00
Tryptone Glucose Extract Agar	100g	Each	**R455091**	61.50
Tryptose Broth	500g	Each	**R455162**	137.00
Tryptose Phosphate Broth	100g	Each	**R455191**	26.50
Tryptose Phosphate Broth	500g	Each	**R455192**	90.60
TT Broth Base (Hajna)	500g	Each	**R454832**	127.00
U				
Urea Agar Base	100g	Each	**R455201**	61.40
Urea Agar Base	500g	Each	**R455202**	141.10
UVM Modified Listeria Enrichment Broth	500g	Each	**R455252**	158.00
V				
Vegetable Peptone Broth	500g	Each	**R455272**	73.60
Violet Red Bile Agar	100g	Each	**R455281**	70.20
Violet Red Bile Agar w/MUG	100g	Each	**R455291**	131.10
Violet Red Bile Agar w/MUG	500g	Each	**R455292**	525.50

Oxoid™ Dehydrated Culture Media

Oxoid is a world-leading microbiology brand that has been associated with quality culture media for over 50 years

The wide range of Oxoid media products is trusted by clinical, industrial and academic microbiology laboratories to provide the excellent performance they need for their microbiological testing.

STORAGE:
Unless otherwise specified, store dehydrated media at 10° to 30°C and use before the expiration date on the label.

Description	Size	Cat. No.	Price
A			
Aeromonas Medium Base (Ryan)	500g	**OXCM0833B**	279.50
Anaerobe Basal Agar	500g	**OXCM0972B**	444.50
Azide Blood Agar Base	500g	**OXCM0259B**	232.00
B			
Bacillus cereus Selective Agar Base	500g	**OXCM0617B**	245.50
Baird-Parker Agar Base	500g	**OXCM0275B**	265.00
BiGGY Agar (Nickerson Medium)	500g	**OXCM0589B**	208.50
Bile Aesculin Agar	500g	**OXCM0888B**	346.50
Bismuth Sulphite Agar (Modified Wilson and Blair Medium)	500g	**OXCM0201B**	222.00
Blood Agar Base	500g	**OXCM0055B**	150.90
Blood Agar Base No. 2	500g	**OXCM0271B**	163.30
Bolton Broth Base	500g	**OXCM0983B**	207.50
Brilliant Green Agar (Kaufmann Medium)	500g	**OXCM0263B**	164.60
Brilliant Green Agar (Modified Edel-Kampelmacher Medium)	500g	**OXCM0329B**	148.10
Brilliant Green Bile 2%	500g	**OXCM0031B**	166.60
Brucella Agar (USA Formulation)	500g	**OXCM0691B**	197.50
Brucella Medium Base	500g	**OXCM0169B**	169.40
Buffered Listeria Enrichment Broth	500g	**OXCM0897B**	158.10
Buffered Peptone Water	500g	**OXCM0509B**	142.50
Buffered Peptone Water	10 bags	**OXDB0509M**	2030.00
C			
Calgon™ Ringers Solution Tablets	100 tabs	**OXBR0049G**	42.00
Campylobacter (Blaser-Wang)	10 vials	**OXSR098E**	231.50
D			
Diagnostic Sensitivity Test Agar (DSTA)	500g	**OXCM0261B**	229.50
G			
GC Agar Base	500g	**OXCM0367B**	126.80
H			
Haemophilus Test Medium (HTM) Base	500g	**OXCM0898B**	217.50
Hektoen Enteric Agar	500g	**OXCM0419B**	278.00
I			
Iron Sulphate Agar	500g	**OXCM0079B**	181.40
Iso-Sensitest Agar	2.5kg	**OXCM0471B**	243.50
Iso-Sensitest Broth	500g	**OXCM0473B**	237.50
K			
K-F Streptococcus Agar	500g	**OXCM0701B**	179.60
Kligler Iron Agar	500g	**OXCM0033B**	147.90
L			
Lab-Lemco Agar (Nutrient Agar, U.S. Formulation)	500g	**OXCM0017B**	187.20
Lab-Lemco Broth (Nutrient Broth, U.S. Formulation)	500g	**OXCM0015B**	150.20
Lactose Broth	500g	**OXCM0137B**	122.40
Lauryl Tryptose Broth (Lauryl Sulphate Broth)	500g	**OXCM0451B**	268.50
Legionella CYE Agar Base	500g	**OXCM0655B**	214.00
Listeria Enrichment Broth	500g	**OXCM0862B**	143.20
Listeria Enrichment Broth Base (UVM formulation)	500g	**OXCM0863B**	180.70
L			
Listeria Selective Agar Base (Oxford)	500g	**OXCM0856B**	266.00
Lysine Iron Agar	500g	**OXCM0381B**	205.00
Lysine Medium	500g	**OXCM0191B**	216.50
M			
M17 Agar	500g	**OXCM0785B**	201.50
M17 Broth	500g	**OXCM0817B**	152.90
MacConkey Agar	500g	**OXCM007B**	162.40
MacConkey Agar (without salt, CM7b)	500g	**OXCM0507B**	143.60
MacConkey Agar No. 2 (contains Bile Salts No. 2)	500g	**OXCM0109B**	165.90
MacConkey Agar No. 3 (U.S. formulation with Bile Salts No. 3)	500g	**OXCM0115B**	119.00
MacConkey Broth	500g	**OXCM0005B**	147.10
Malt Extract Agar	500g	**OXCM0059B**	215.00
Malt Extract Broth	500g	**OXCM0057B**	202.00
Maximum Recovery Diluent (MRD, Peptone Salt Broth)	500g	**OXCM0733B**	101.50
M-CP Agar Base	500g	**OXCM0992B**	219.00
Membrane FC Agar	500g	**OXMM0747B**	208.50
Membrane Endo Agar LES	500g	**OXMM0551B**	177.40
Milk Agar	500g	**OXCM0021B**	223.00
Milk Plate Count Agar (with antibiotic-free skimmed milk)	500g	**OXCM0681B**	244.00
MLCB Agar	500g	**OXCM0783B**	171.10
Modified Lysine Iron Agar (MLIA)	500g	**OXCM0886B**	245.00
Modified Semi-solid Rappaport Vassiliadis Medium (MSRV)	500g	**OXCM0910B**	186.20
Modified Tryptone Soy Broth	500g	**OXCM0989B**	100.70
MRS Agar	500g	**OXCM0361B**	172.30
MRS Broth	500g	**OXCM0359B**	149.50
MRVP Medium (Clarks and Lubs Medium)	500g	**OXCM0043B**	145.70
Mueller Hinton Agar	500g	**OXCM337B**	146.30
Mycoplasma Agar Base	500g	**OXCM0401B**	171.10
Mycoplasma Broth Base	500g	**OXCM0403B**	133.00
MYP Agar	500g	**OXCM0929B**	221.50
N			
Nutrient Agar	500g	**OXCM0003B**	149.20
Nutrient Broth	500g	**OXCM0001B**	125.20
Nutrient Broth No. 2	500g	**OXCM0067B**	132.20
Nutrient Gelatin (CM135a)	500g	**OXCM0635B**	147.70
O			
ONE Broth-Listeria	500g	**OX661662**	191.90
Orange Serum Agar	500g	**OXCM0657B**	262.00
Oxacillin Resistance Screening Agar Base	500g	**OXCM1008B**	212.00
Oxytetracycline Glucose Yeast Extract Agar Base	500g	**OXCM0545B**	142.90
P			
PALCAM Agar Base	500g	**OXCM0877B**	283.00
Peptone Water	500g	**OXCM0009B**	111.20
Perfringens Agar Base (OPSP)	500g	**OXCM0543B**	220.50
Perfringens Agar Base (TSC/SFP)	500g	**OXCM0587B**	219.50
Plate Count Agar	500g	**OXCM0325B**	161.10
Potato Dextrose Agar	500g	**OXCM0139B**	197.30
Pseudomonas Agar Base	500g	**OXCM0559B**	185.10
R			
R2A Agar	500g	**OXCM0906B**	226.00
Rappaport-Vassiliadis (RV) Enrichment Broth	500g	**OXCM0669B**	95.20
Rappaport Vassiliadis Soya (RVS) Peptone Broth	500g	**OXCM0866B**	103.70
Reinforced Clostridial Agar	500g	**OXCM0151B**	158.20
Reinforced Clostridial Medium (RCM, semisolid)	500g	**OXCM0149B**	145.40
Rogosa Agar	500g	**OXCM0627B**	211.00
Rose-Bengal Chloramphenicol Agar Base	500g	**OXCM0549B**	183.60

Contd. on next page.

Oxoid™ Dehydrated Culture Media, Contd.

Description	Size	Cat. No.	Price
S			
Sabouraud Dextrose Agar	500g	**OXCM0041B**	132.10
Sabouraud Liquid Medium	500g	**OXCM0147B**	101.20
Salmonella Chromogenic Agar	500g	**OXCM1007B**	776.50
Schaedler Anaerobe Broth	500g	**OXCM0497B**	173.00
Selenite Broth Base	500g	**OXCM0395B**	71.70
Selenite Cystine Broth Base	500g	**OXCM0699B**	108.10
Sheep Blood Agar Base	500g	**OXCM0854B**	178.30
SIM Medium	500g	**OXCM0435B**	165.80
Simmons Citrate Agar	500g	**OXCM0155B**	184.50
Slanetz and Bartley Medium (*Enterococcus* Agar)	500g	**OXCM0377B**	204.50
Sorbitol MacConkey Agar w/BCIG	500g	**OXCM0981B**	627.50
Sorbitol MacConkey Agar	500g	**OXCM0813B**	204.00
SS Agar	500g	**OXCM0099B**	166.80
Staphylococcus Medium #110	500g	**OXCM0145B**	136.40
Standard Plate Count Agar APHA	500g	**OXCM0463B**	151.40
Stuart Transport Medium	500g	**OXCM0111B**	185.70
T			
Tergitol-7 Agar	500g	**OXCM0793B**	174.70
Tetrathionate Broth (USA)	500g	**OXCM0671B**	296.50
Tetrathionate Broth Base	500g	**OXCM0029B**	94.30
Thioglycollate Broth (USP alternative)	500g	**OXCM0391B**	150.60
Thioglycollate Medium (Brewer)	500g	**OXCM0023B**	151.80
Thiosulphate Ringers Solution	100 tabs	**OXBR0048G**	43.85
Tinsdale Agar Base, requires Tinsdale Supplement OXSR0065A	500g	**OXCM0487B**	221.50
Todd-Hewitt Broth	500g	**OXCM0189B**	183.90
Tomato Juice Agar	500g	**OXCM0113B**	458.50
Trichomonas Medium Base	500g	**OXCM0161B**	184.50
Triple Sugar Iron Agar	500g	**OXCM0277B**	117.30
Tryptone Glucose Extract Agar	500g	**OXCM0127B**	179.00
Tryptone Soy Agar	500g	**OXCM0131B**	115.60
Tryptone Soy Agar	2.5kg	**OXCM0131R**	544.50
Tryptone Soy Broth (Gamma Irradiated)	5kg	**OXCM1016T**	1133.00
Tryptone Soy Broth (Soybean Casein Digest Medium USP)	500g	**OXCM0129B**	86.70
Tryptone Soy Broth (Soybean Casein Digest Medium USP)	5kg	**OXCM0129T**	841.00
Tryptone Water	500g	**OXCM0087B**	172.30
Tryptose Blood Agar Base	500g	**OXCM0233B**	143.70
Tryptose Phosphate Broth	500g	**OXCM0283B**	162.60
U			
Universal Beer Agar	500g	**OXCM0651B**	179.30
Urea Agar Base (Christensen Agar Base)	500g	**OXCM0053B**	135.70
Urea Broth Base (Christensen Agar Base)	500g	**OXCM0071B**	96.50
V			
Vegetable Peptone Broth	500g	**OXVG0101B**	103.00
Vegetable Peptone No. 1	500g	**OXVG0100B**	96.80
Violet Red Bile Agar w/MUG	500g	**OXCM0978B**	381.00
Violet Red Bile Lactose Agar	500g	**OXCM0107B**	126.10
Violet Red Bile Glucose Agar	500g	**OXCM0485B**	174.40
Vogel-Johnson Agar	500g	**OXCM0641B**	162.10
W			
Wilkins-Chalgren Anaerobe Broth	500g	**OXCM0643B**	212.00
Wilkins-Chalgren Anaerobe Agar	500g	**OXCM0619B**	227.50
WL Nutrient Agar	500g	**OXCM0309B**	105.90
Wort Agar	500g	**OXCM0247B**	211.00
X			
XLD Medium	500g	**OXCM469B**	183.70

Description	Size	Cat. No.	Price
Y			
Yeast and Mold Agar	500g	**OXCM0920B**	276.00
Yeast Extract Agar	500g	**OXCM0019B**	220.50
Yersinia Selective Agar Base (CIN Agar Base/ Schiemann Medium)	500g	**OXCM0653B**	150.60

BD™ BBL™ Difco™ Dehydrated Media

Dehydrated media with ingredients for isolation, detection and cultivation of a wide variety of microorganisms

Description	Size	Cat. No.	Price
A			
A-1 Medium, Difco	500g	**DF1823-17-4**	112.60
Actinomycete Isolation Agar, Difco	500g	**DF0957-17-4**	254.50
Anaerobic Agar, Difco	500g	**DF0536-17-4**	170.60
Antibiotic Medium 19, Difco	500g	**DF0043-17-0**	142.30
Antibiotic Medium 11 (Erythromycin/Neomycin Agar), Difco	500g	**DF0593-17-4**	113.00
Antibiotic Medium 3 (Penassay Broth), Difco	500g	**DF0243-17-8**	113.10
Antibiotic Medium 1 (Penassay Seed Agar), Difco	500g	**DF0263-17-3**	139.00
Antibiotic Medium 2 (Penassay Seed Agar), Difco	500g	**DF0270-17-4**	143.50
Antibiotic Medium 9 (Polymyxin Base Agar), Difco	500g	**DF0462-17-2**	139.80
Antibiotic Medium 10 (Polymyxin Seed Agar), Difco	500g	**DF0463-17-1**	141.30
APT Agar (All-purpose Agar w/Tween* 80), Difco	500g	**DF0654-17-0**	124.20
APT Broth (All-purpose Broth w/Tween 80), Difco	500g	**DF0655-17-9**	100.60
Azide Dextrose Broth, Difco	500g	**DF0387-17-4**	94.80
B			
B_{12} Assay Medium USP, Difco	100g	**DF0457-15-1**	76.93
Baird-Parker Agar Base, Difco	500g	**DF0768-17-3**	266.00
Baird-Parker Agar Base, Difco	2kg	**DF0768-07**	978.97
BCYE Agar Base, BBL	500g	**B12327**	551.50
BG Sulfa Agar (Brilliant Green), Difco	500g	**DF0717-17-5**	136.80
Biotin Assay Medium, Difco	100g	**DF0419-15-8**	67.60
Bismuth Sulfite Agar, Difco	500g	**DF0073-17-3**	144.50
Blood Agar Base (Infusion Agar)	500g	**B11037**	191.80
Brain Heart Infusion, 500g	500g	**B11059**	147.70
Brain Heart Infusion, Difco, 500kg	500g	**DF0037-17-8**	116.20
Brain Heart Infusion, 5LB.	2.26kg	**B11060**	681.50
Brain Heart Infusion (Bacto), Difco, 2kg	2kg	**DF0037-07-0**	467.50
Brain Heart Infusion (Bacto), Difco, 10kg	10kg	**DF0037-08-9**	2550.00
Brain Heart Infusion Agar, BBL, 500g	500g	**B11065**	212.50
Brain Heart Infusion Agar, Difco, 500g	500g	**DF0418-17-7**	166.40
Brain Heart Infusion Agar, Difco, 2kg	2kg	**DF0418-07-9**	668.50
Brain Heart Infusion Broth, Modified, BBL	500g	**B99070**	203.50
Brain Heart Infusion, Porcine (Bacto*), Difco	500g	**DF0561-17**	145.20
Brilliant Green Agar, Difco	500g	**DF0285-17-7**	116.40
Brilliant Green Bile 2%, Difco	100g	**DF0007-15-6**	79.20
Brilliant Green Bile 2%, Difco	500g	**DF0007-17-4**	114.90
Brucella Agar	500g	**B11086**	199.90
Brucella Broth	500g	**B11088**	160.50
Buffered Listeria Enrichment Broth Base, Difco	500g	**DF090717**	65.80
Buffered Peptone Water, Difco	500g	**DF1810-17-9**	96.90
Buffered Peptone Water, Difco	2kg	**DF1810-07**	368.00
Buffered Peptone Water, Difco	10kg	**DF1810-080**	1652.00
Buffered Peptone Water, BBL	2.26kg	**B12345**	537.50

Contd. on next page.

BD™ Dehydrated Media, Contd.

Description	Size	Cat. No.	Price
C			
Candida BCG Agar Base, Difco	500g	**DF0835-17-2**	184.30
Cetrimide Agar Base, Difco	500g	**DF0854-17-8**	155.80
CLED Agar (Cystine Lactose Electrolyte Deficient Agar), BBL	500g	**L4312-21-8**	203.00
Columbia Agar Base	500g	**B11124**	130.90
Columbia Agar Base	2.26kg	**B11125**	643.50
Columbia Blood Agar Base , BBL, Difco	500g	**DF0792-17-3**	99.10
Columbia Blood Agar Base, Difco	2kg	**DF0792-07-5**	377.00
Columbia CNA Agar	500g	**B12104**	169.60
Columbia CNA Agar	2.26kg	**B94221X**	831.00
Cooked Meat Medium, Difco	500g	**DF0267-17-9**	370.00
Corn Meal Agar	500g	**B11132**	252.50
Cystine Heart Agar, Difco	500g	**DF0047-17-6**	203.50
D			
Demi-Fraser Broth Base, Difco	500g	**DF0653-17-0**	85.60
Demi-Fraser Broth Base, Difco	10kg	**DF0653-08**	1161.00
D/E Neutralizing Broth, Difco	500g	**DF0819-17-2**	106.90
Desoxycholate Agar, Difco	500g	**DF0273-17-1**	97.60
Dextrose Tryptone Agar; Difco	500g	**DF0080-17-4**	125.50
DNase Test Agar with Methyl Green, Difco	500g	**DF0220-17-5**	177.10
DRBC Agar, Difco	500g	**DF0587-17**	115.40
Dubos Oleic Agar Base, Difco	500g	**D0373-17**	230.00
E			
m E Agar, Difco	500g	**DF0333-17-9**	215.50
EC Medium, Difco	100g	**DF0314-15-4**	93.78
EC Medium, Difco	500g	**DF0314-17-2**	151.03
EC Medium with MUG, Difco	100g	**DF0022-15-7**	193.70
EC Medium with MUG, Difco	500g	**DF0022-17-5**	475.00
EE Broth Mossel, Difco	500g	**DF0566-17-7**	153.70
m Endo Broth, Difco	100g	**DF0749-15-9**	74.40
m Endo Broth, Difco	500g	**DF0749-17-7**	148.60
m Endo LES Agar, Difco	100g	**DF0736-15-4**	98.00
m Endo LES Agar, Difco	500g	**DF0736-17-2**	196.30
Enteric Fermentation Base, Difco	500g	**DF1828-17-9**	335.00
Enterococcosel Agar	500g	**B12205**	234.50
Eosin Methylene Blue Agar, Levine	500g	**B11221**	114.50
Eosin Methylene Blue Agar, Modified (Holt-Harris and Teague)	500g	**B11215**	135.50
Eugon Agar, Difco	500g	**DF0589-17-0**	143.00
F			
m FC Agar, Difco	500g	**DF0677-17-3**	192.65
m FC Broth Base, use with Rosolic Acid, Difco	100g	**DF0883-15-5**	77.80
m FC Broth Base, use with Rosolic Acid, Difco	500g	**DF0883-17-3**	166.97
Fluid Lactose Medium, Difco	500g	**DF0004-17-7**	78.90
Fluid Lactose Medium, Difco	10kg	**DF0004-08-8**	1361.11
Fluid Selenite Cystine Medium, Difco	500g	**DF0687-17-1**	90.50
Fluid Thioglycollate Medium, Alternative, Difco	500g	**DF0257-17-1**	102.80
Fluid Thioglycollate Medium, Difco	500g	**DF0256-17-2**	72.60
Fluid Thioglycollate Medium, Difco	10kg	**DF0256-08-3**	1230.00
Folic Acid Casein Medium, Difco	100g	**DF0822-15-9**	81.30
Fraser Broth Base, Difco	500g	**DF0219-17-8**	107.80
Fraser Broth Base, Difco	2kg	**DF0219-07-0**	421.50
FTA Hemagglutination Buffer, pH 7.2 (Phosphate Buffered Saline)	500g	**B11248**	85.00
G			
GC Medium Base (Chocolate Agar Base), Difco	500g	**DF0289-17-3**	86.70
Giolitti-Cantoni Broth Base, Difco	500g	**DF1809-17-2**	90.33
GN Broth	500g	**B11279**	155.60
GN Broth Hajna, Difco	500g	**DF0486-17-4**	115.90

Description	Size	Cat. No.	Price
H			
Heart Infusion Agar (Blood Agar Base, Infusion pH 7.4), Difco	500g	**DF0044-17-9**	152.90
Heart Infusion Broth (Bacto*), Difco	500g	**DF0038-17-7**	149.00
Hektoen Enteric Agar, Difco	500g	**DF0853-17-9**	209.00
I			
ISP Medium 4, Difco	500g	**DF0772-17-7**	205.00
K			
KF Streptococcus Agar, Difco	500g	**DF0496-17-2**	153.90
Kligler Iron Agar	500g	**B11317**	160.00
L			
Lactobacilli MRS Agar, Difco	500g	**DF0882170**	118.15
Lactobacilli MRS Broth, Difco	500g	**DF0881-17-5**	102.90
Lactose Broth	500g	**B214908**	111.30
Late Count Agar (Standard Methods Agar), Difco	2kg	**DF0479-07-5**	364.50
Lauryl Sulfate Broth, BBL	500g	**B11338**	111.80
Lauryl Sulfate Broth, BBL	5 lb.	**B11339**	593.50
Lauryl Sulfate Broth, Difco	100g	**DF0241-15-2**	78.80
Lauryl Sulfate Broth, Difco	500g	**DF0241-17-0**	102.90
Lauryl Tryptose Broth with MUG, Difco	500g	**DF0021-17-6**	521.00
LB Agar, Lennox, Difco	500g	**DF0401-17**	101.00
LB Agar, Miller (Luria-Bertani), Difco	500g	**DF0445-17-4**	98.40
LB Broth Base, Select Alternative Protein Source (APSTM), Difco	10kg	**B4312-48-4**	1473.00
LB Broth, Lennox, Difco	500g	**DF0402-17-0**	49.40
LB Broth, Miller (Luria-Bertani), Difco	500g	**DF0446-17-3**	66.00
LBS Agar	500g	**B11327**	165.50
Letheen Agar, Difco	500g	**DF0680-17-8**	160.40
Letheen Agar, Modified (AOAC), Difco	500g	**DF0631-17-0**	143.00
Letheen Broth, Difco	500g	**DF0681-17-7**	145.00
Listeria Enrichment Broth, Difco	500g	**DF0222-17-3**	75.80
Listeria Enrichment Broth, Difco	10kg	**DF0222-08-4**	1373.00
Litmus Milk, BBL	500g	**B11343**	201.00
Liver Veal Agar, Difco	500g	**DF0059-17-1**	202.50
Lysine Iron Agar, BBL	500g	**B11363**	249.50
Lysine Iron Agar, Difco	500g	**DF0849-17-6**	192.00
M			
M Broth (Bacto), Difco	500g	**DF0940-17-4**	133.70
m TEC Agar, Difco	100g	**DF0334-15-0**	95.60
MacConkey Agar Base, Difco	500g	**DF0818-17-3**	126.30
MacConkey Agar, Difco	2kg	**DF0075-07-3**	338.50
MacConkey Broth, Difco	500g	**DF0020-17-7**	102.30
MacConkey II Agar	500g	**B12306**	138.20
MacConkey II Agar with Sorbitol	500g	**08757190**	137.80
MacConkey Sorbitol Agar, Difco	500g	**DF0079-17-7**	130.40
Malt Agar, Difco	500g	**DF0024-17-3**	129.70
Malt Extract Agar, Difco	500g	**DF0112-17-6**	133.10
Malt Extract Broth, Difco	500g	**DF0113-17-5**	102.30
Mannitol Salt Agar, BBL	500g	**B11407**	73.60
Marine Agar 2216, Difco	500g	**DF0979-17-8**	189.40
Marine Broth 2216, Difco	500g	**DF0791-17-4**	174.80
McClung Toabe Agar Base, use with Egg Yolk Enrichment 50%, Difco	500g	**DF0941-17-3**	160.10
M-Green Yeast and Mold Broth, BBL	500g	**B11287**	130.20
m-HPC Agar (Heterotrophic Plate Count), Difco	500g	**DF0752-17-1**	144.00
Microbial Content Test Agar, Difco	500g	**DF0553-17-2**	107.90
Middlebrook 7H10 Agar, Difco	500g	**DF0627-17-4**	160.10
Middlebrook 7H9 Broth, Difco	500g	**DF0713-17-9**	144.90
Mitis Salivarius Agar, Difco	500g	**DF0298-17-2**	154.40

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BD™ Dehydrated Media, Contd.

Description	Size	Cat. No.	Price
M			
Modified Listeria Enrichment Broth, Difco	2kg	**DF0223-07-4**	405.48
MSRV Medium, Difco	500g	**D1868-17**	165.60
Motility Test Medium, BBL	500g	**B11436**	195.00
Mueller Hinton II Agar (Cation-adjusted)	500g	**B11438**	131.00
Mueller Hinton Broth, BBL	500g	**B11443**	149.40
Mueller Hinton Broth, Difco	500g	**DF0757-17-6**	121.70
Mueller Hinton Medium, Difco	500g	**DF0252-17-6**	95.60
Mycobacteria 7H11 Agar, Difco	500g	**DF0838-17-9**	149.90
Mycophil Agar, with Low pH	500g	**B11450**	162.40
Mycosel Agar	500g	**B11462**	224.50
MYP Agar (Mannitol Yolk Polymyxin), Difco	500g	**DF0810-17-1**	143.82
N			
Niacin Assay Medium, Difco	100g	**DF0322-15-4**	61.60
Nitrate Broth, Difco	500g	**DF0268-17-8**	138.50
Nutrient Agar, Difco	500g	**DF0001-17-0**	139.70
Nutrient Broth, Difco	500g	**DF0003-17-8**	122.90
Nutrient Gelatin, Difco	500g	**DF0011-17-8**	96.10
NZCYM Broth, Difco	500g	**DF0404-17-0**	87.90
O			
Oatmeal Agar, Difco	500g	**DF0552-17-3**	175.60
Orange Serum Agar	500g	**B11486**	185.30
Oxford Medium Base, Difco	500g	**DF0225-17-0**	173.90
Oxford Medium Base, Difco	2kg	**DF0225-07-2**	656.50
P			
Pantothenate Assay Medium, Difco	100g	**DF0604-15-3**	71.75
Phenol Red Broth Base, BBL	500g	**B11506**	222.00
Phenol Red Lactose Broth, BBL	500g	**B11519**	210.50
Phenylalanine Agar , Difco	500g	**DF0745-17-1**	218.00
Phenylethyl Alcohol Agar, BBL	500g	**B11539**	145.20
Phytone Yeast Extract Agar, BBL	500g	**B11546**	149.00
Plate Count Agar, Difco	10kg	**DF0479-08-4**	1695.00
Plate Count Agar (Standard Methods Agar), Difco	100g	**DF0479-15-5**	54.20
Plate Count Agar (Standard Methods Agar), Difco	500g	**DF0479-17-3**	96.22
Potato Dextrose Agar, Difco	500g	**DF0013-17-6**	114.19
Potato Dextrose Agar, Difco	2kg	**DF0013-07-8**	463.50
Potato Dextrose Broth, Difco	500g	**DF0549-17-9**	126.47
Pseudomonas Isolation Agar, Difco	500g	**DF0927-17-1**	166.70
Pyridoxine Y Medium, Difco	100g	**DF0951-15-2**	92.40
R			
R2A Agar, Difco	500g	**DF1826-17-1**	134.10
Raka-Ray No. 3, Difco	500g	**DF1867-17-0**	129.62
Rappaport-Vassiliadis, Difco	500g	**D1858-17**	106.00
Reinforced Clostridial Medium, Difco	500g	**DF1808-17-3**	119.00
Riboflavin Assay Medium, Difco	100g	**DF0325-15-1**	85.26
Rogosa SL Agar, Difco	500g	**DF0480-17-0**	142.50
Rose Bengal Agar Base, Difco	500g	**DF1831-17-4**	174.10
S			
Sabouraud Dextrose Agar, BBL	500g	**B11584**	99.40
Sabouraud Dextrose Agar, BBL	5 lb.	**B11585**	481.50
Sabouraud Dextrose Agar, Difco	500g	**DF0109-17-1**	76.50
Sabouraud Dextrose Agar, Difco	2kg	**DF0109-07-3**	305.00
Sabouraud Dextrose Agar, Difco	10kg	**DF0109-08-2**	1505.00
Sabouraud Dextrose Broth (Sabouraud Liquid Medium), Difco	500g	**DF0382-17-9**	64.30
Salmonella Shigella (SS) Agar, BBL	500g	**B11597**	152.10
Selenite Broth, Difco	500g	**DF0275-17-9**	84.70

Description	Size	Cat. No.	Price
S			
SFP Agar Base (Shahidi Ferguson perfringens), Difco	500g	**DF0811-17-0**	151.00
SIM Medium	500g	**B11578**	126.70
Simmons Citrate Agar, BBL	500g	**B11620**	160.30
Soy Broth (Soybean-Casein Digest Medium), Difco	100g	**DF0370-15-5**	30.45
Spirit Blue Agar, Difco	500g	**DF0950-17-1**	312.50
Standard Methods Agar (Tryptone Glucose Yeast Agar)	500g	**B11638**	135.80
Standard Methods Agar (Tryptone Glucose Yeast Agar)	5 lb.	**B11641**	602.40
Staphylococcus Medium 110, Difco	500g	**DF0297-17-3**	102.50
Starch Agar, Difco	500g	**DF0072-17-4**	149.70
Super Broth Base, Select APSI (Alternative Protein Source)	500g	**B4312-48-5**	90.00
Super Broth Base, Select APSI (Alternative Protein Source)	10kg	**B4312-48-6**	1112.00
T			
TAT Broth Base, Difco	500g	**DF0984-17-1**	128.80
TAT Broth Base, Difco	2kg	**14-910-97**	527.00
TCBS Agar, Difco	500g	**DF0650-17-4**	128.00
Terrific Broth, Difco	500g	**DF0438-17**	60.50
Tetrathionate Broth Base, Difco	500g	**DF0104-17-6**	62.70
Tetrathionate Broth Base, Difco	2kg	**DF0104-07-8**	252.00
Thioglycollate Medium Brewer Modified	500g	**B11716**	128.70
Thiol Broth, Difco	500g	**D0434-17**	289.50
Todd Hewitt Broth (Bacto), Difco	10kg	**DF0492-08-7**	2100.00
Todd Hewitt Broth (Bacto), Difco	500g	**DF0492-17-6**	107.99
Tomato Juice Agar, Difco	500g	**DF0389-17-2**	560.00
Tomato Juice Agar, Difco	500g	**DF0031-17-4**	279.00
Tryptic Soy Agar, Difco	500g	**DF0369-17-6**	70.00
Tryptic Soy Agar, Difco	2kg	**DF0369-07-8**	271.50
Tryptic Soy Broth, Difco	500g	**DF0370-17-3**	60.39
Tryptic Soy Broth, Difco	2kg	**DF0370-07-5**	173.80
Tryptic Soy Broth without Dextrose (Bacto), Difco	500g	**DF0862-17-8**	87.60
Trypticase Soy Agar (Soybean Casein Digest Agar, USP)	500g	**B11043**	89.00
Trypticase Soy Agar (Soybean Casein Digest Agar, USP)	5 lb.	**B11046**	416.00
Trypticase Soy Agar (TSA II)	500g	**B12305**	98.90
Trypticase Soy Agar with Lecithin and Polysorbate 80	500g	**B11764**	136.10
Trypticase Soy Agar with Lecithin and Polysorbate 80	5 lb.	**B12263**	657.50
Trypticase Soy Broth	5 lb.	**B11771**	265.50
Trypticase Soy Broth, BD	500g	**B11768**	55.50
Tryptone Glucose Extract Agar, Difco	500g	**DF0002-17-9**	143.60
Tryptose Blood Agar Base, Difco	500g	**DF0232-17-1**	124.70
U			
UBA Medium, Difco	500g	**DF0856-17-6**	115.70
Universal Preenrichment Broth, Difco	500g	**DF0235-17-8**	71.20
UVM Modified Listeria Enrichment Broth, Difco	500g	**DF0223-17-2**	106.50
V			
Violet Red Bile Agar, Difco	500g	**DF0012-17-7**	98.90
Violet Red Bile Agar w/MUG, Difco	500g	**DF0029-17-8**	378.00
Violet Red Bile Glucose Agar, Difco	500g	**D186617**	139.70
Vitamin B12 Assay Medium, Difco	100g	**DF0360-15-7**	81.80
VJ Agar, Difco	500g	**DF0562-17-1**	147.70

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BD™ Dehydrated Media, Contd.

Description	Size	Cat. No.	Price
W			
Wilkins-Chalgren Agar, Difco	500g	**DF1805-17-6**	168.00
WL Differential Medium, Difco	500g	**DF0425-17-8**	101.50
WL Nutrient Broth, Difco	500g	**DF0471-17-1**	112.80
WL Nutrient Medium, Difco	500g	**DF0424-17-9**	115.00
Wort Agar, Difco	500g	**DF0111-17-7**	124.20
X			
XLD Agar, Difco	500g	**DF0788-17-9**	148.40
XLT4 Agar Base, Difco	500g	**DF0234-17-9**	151.54
2xYT, Difco	500g	**DF0440-17**	52.00
Y			
Yeast Nitrogen Base w/o Amino Acids, Difco	100g	**DF0919-15-3**	103.70
Yeast Nitrogen Base w/o Amino Acids and Ammonium Sulfate, Difco	100g	**DF0335-15-9**	107.00
YM Agar, Difco	500g	**DF0712-17-0**	188.50
YM Broth, Difco	500g	**DF0711-17-1**	143.20
YPD Agar, Difco	500g	**DF0427-17-6**	121.20
YPD Broth, Difco	500g	**DF0428-17-5**	68.50

Fisher BioReagents™ Microbiology Media and Additives

Growth-promoting media and additives for preparing bacterial nutrient media

- Dehydrated; used to prepare microbiological culture media
- Included are three modifications of the Luria-Bertani formula, used for growing molecular biology strains of *E. coli*-containing recombinant plasmids

BP1420 Series

Media Type	Description/Application	Size	Cat. No.	Each
LB Agar, Miller (Granular)	Formulation Usage: 40g/L. Contains 10g of tryptone, 5g of yeast extract, 10g of sodium chloride, 15g of granulated agar per 40g.	2kg	**BP1425-2**	488.00
LB Broth, Lennox (Powder)	Formulation Usage: 20g/L. Contains 10g of tryptone, 5g of yeast extract, 5g of sodium chloride per 20g.	2kg	**BP1427-2**	251.00
Peptone	Contains nitrogen in a form readily available to bacteria	500g	**BP1420500**	122.60

Packaging Key

Media Packaging Type	Abbreviation	Media Packaging Type	Abbreviation
13 x 100mm Tube	A	Filter	FL
15 x 45mm Tube	B	Hungate Cap	HC
15 x 90mm Tube	C	Individual Wrap Plate	IWP
15 x 103mm Tube	D	Monoplate	M
16 x 125mm Tube	E	Organism	Org.
20 x 113mm Tube	F	Plate	P
20 x 150mm Tube	G	Polypropylene Bottle	PB
27 x 70mm Tube	H	Pour Tube	PT
Ampules	Amp.	Pour Tube, Deep	PTD
Biplate	BP	Quadplate	Q
Blood Culture Bottle	BCB	Rubber Stopper	RS
Borosilicate Bottle	BB	Serum Bottle	SB
Boston Round Bottle	BRB	Single Bag	SBG
Bottle	Btl.	Spacesaver Plate	SP
Butt (10 x 103mm)	BT	Thin Pour	TP
Clear Square Bottle	CSB	Tissue Culture Flask	TCF
Double Bag	DBG	Triplate	TRI
Double Pour	DP	Tube	T
Durham Tube	DT	Wide Mouth Bottle	WMB
Envelope	Env.	Vial	Vl.

Prepared Media

Remel™ Prepared Media

Over 1700 media formulations available

- Plated and tubed media formulations ensure the best media possible
- For the isolation and/or differentiation of microorganisms from samples or specimens
- Most are ready for immediate use with no further preparation necessary
- Products designated "Not Intended for IVD Use" have not been cleared by the FDA for in vitro diagnostic use

Description	Type	Qty.	Cat. No.	Price
10B Arginine Broth	B - 1.8mL	100/Pk.	**R20305**	1253.00
10B Broth	B - 1.8mL	100/Pk.	**R20304**	1056.00
10B Broth, Lyophilized	B - 1.8mL	6/Pk.	**R20302**	70.60
A				
A-7 Agar	15 × 60mm P	10/Pk.	**R20201**	128.60
A-7 Agar	M	10/Pk.	**R20202**	205.00
A-8 Agar w/penicillin	M	10/Pk.	**R20205**	178.90
A-8 Agar, Selective w/cefoperazone, amphotericin B	15 × 60mm P	10/Pk.	**R20204**	133.70
Acetamide Agar	D - slant	100/Pk.	**R060010**	775.00
Acetamide Agar	D - slant	20/Pk.	**R060012**	205.00
Acetate Differential Agar (Sodium Acetate Agar)	D - slant	20/Pk.	**R060022**	197.10
Agar (1.5%)	F - 10mL BT	20/Pk.	**R08007**	137.90
Alkaline Peptone Water pH 8.4	E - 10mL	20/Pk.	**R07006**	266.00
Amies Transport Medium w/Charcoal	D - 9mL BT	20/Pk.	**R060072**	146.40
Amies Transport Medium w/o Charcoal	D - 9mL BT	20/Pk.	**R060062**	145.30
Anaerobic Blood Agar	M	10/Pk.	**R01040**	60.00
Anaerobic Blood Agar	M	100/Pk.	**R01036**	560.50
Anaerobic Blood Agar CDC formulation	SP	15/Pk.	**R01039**	117.30
Anaerobic CDC KV Blood Agar	M	100/Pk.	**R01043**	671.50
Anaerobic CDC LKV Blood Agar	M	100/Pk.	**R01045**	687.50
Anaerobic KV Blood Agar	M	10/Pk.	**R01042**	67.60
Anaerobic LKV Blood Agar	M	10/Pk.	**R01044**	61.00
Anaerobic LPV Blood Agar CDC formulation	M	10/Pk.	**R01052**	104.90
Anaerobic Neomycin Blood Agar CDC formulation	M	10/Pk.	**R01046**	87.40
Anaerobic Neomycin Blood Agar CDC formulation	SP	15/Pk.	**R01047**	135.10
Anaerobic PEA Blood Agar	M	10/Pk.	**R01048**	63.30
Anaerobic PEA Blood Agar CDC formulation. Anaerobic Phenylethyl Alcohol Agar w/5% Sheep Blood	M	100/Pk.	**R01049**	682.50
Anaerobic PV Blood Agar CDC formulation	M	10/Pk.	**R01050**	107.80
Anaerobic Reducible Blood Agar Columbia Blood Agar base	M	10/Pk.	**R01060**	69.50
Anaerobic Reducible Blood Agar Columbia Blood Agar base	SP	15/Pk.	**R01061**	98.20
Anaerobic Reducible Blood Agar PEA w/Vitamin K	BP	10/Pk.	**R02124**	141.60
Anaerobic Reducible CNA Blood Agar	M	10/Pk.	**R01064**	112.70
Anaerobic Reducible CNA Blood Agar Columbia Blood Agar base	SP	15/Pk.	**R01065**	127.70

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
A				
Anaerobic Reducible CNA Blood Agar Kanamycin Bile Esculin Agar (KBE)	BP	10/Pk.	**R02088**	141.30
Anaerobic Reducible CNA Blood Agar Reducible LKV Blood Agar	BP	10/Pk.	**R02135**	136.60
Anaerobic Reducible LKV Blood Agar Bacteroides Fragilis Isolation Agar (BBE)	BP	10/Pk.	**R02006**	128.00
Anaerobic Reducible LKV Blood Agar Columbia Blood Agar base	M	10/Pk.	**R01068**	80.90
Anaerobic Reducible LKV Blood Agar Columbia Blood Agar base	SP	15/Pk.	**R01069**	182.20
Anaerobic Reducible LKV Blood Agar PEA w/Vitamin K	BP	10/Pk.	**R02126**	139.80
Anaerobic Reducible Neomycin Blood Agar Columbia Blood Agar base	M	10/Pk.	**R01072**	244.50
Andrade's Broth Base Control	D - 5mL	20/Pk.	**R060102**	211.00
Andrade's Broth w/1% Adonitol	D - 5mL	20/Pk.	**R060106**	196.60
Andrade's Broth w/1% Arabinose	D - 5mL	20/Pk.	**R060110**	204.00
Andrade's Broth w/1% Dextrose	D - 7mL DT	20/Pk.	**R060114**	224.50
Andrade's Broth w/1% Dulcitol	D - 5mL	20/Pk.	**R060118**	206.50
Andrade's Broth w/1% Fructose	D - 5mL	20/Pk.	**R060122**	245.50
Andrade's Broth w/1% Glycerol	D - 5mL	20/Pk.	**R060126**	229.50
Andrade's Broth w/1% Inositol	D - 5mL	20/Pk.	**R060130**	204.50
Andrade's Broth w/1% Inulin	D - 5mL	20/Pk.	**R060134**	212.50
Andrade's Broth w/1% Lactose	D - 5mL	20/Pk.	**R060138**	198.30
Andrade's Broth w/1% Mannitol	D - 5mL	20/Pk.	**R060146**	211.50
Andrade's Broth w/1% Mannose	D - 5mL	20/Pk.	**R060150**	206.00
Andrade's Broth w/1% Raffinose	D - 5mL	20/Pk.	**R060154**	199.20
Andrade's Broth w/1% Rhamnose	D - 5mL	20/Pk.	**R060158**	207.50
Andrade's Broth w/1% Salicin	D - 5mL	20/Pk.	**R060162**	210.50
Andrade's Broth w/1% Sorbitol	D - 5mL	20/Pk.	**R060166**	206.50
Andrade's Broth w/1% Xylose	D - 5mL	20/Pk.	**R060178**	199.20
Arginine Broth Lyophilized	1.8mL/Vl.	6/Pk.	**R20358**	61.80
Arylsulfatase Agar	F - BT	20/Pk.	**R08026**	206.50
Arylsulfatase Broth 2 week test	D - 2mL	20/Pk.	**R060196**	214.50
Arylsulfatase Broth 3 day test	D - 2mL	20/Pk.	**R060192**	210.50
Ascospore Agar	G - PT	20/Pk.	**R09046**	241.00
Aspergillus Differential Medium	G - PT	20/Pk.	**R09052**	173.00
ATS Medium	F - slant	20/Pk.	**R08054**	178.20
B				
Bacteroides Fragilis Isolation Agar (BBE Agar)	M	10/Pk.	**R01104**	69.80
BACTI Proteose Peptone	500g	Each	**R450652**	179.90
Baird Parker Agar	M	10/Pk.	**R01108**	70.60
BHI Agar (Brain Heart Infusion Agar)	D - slant	20/Pk.	**R060232**	118.90
BHI Agar (Brain Heart Infusion Agar)	D - slant	100/Pk.	**R060230**	563.00
BHI Agar (Brain Heart Infusion Agar)	M	10/Pk.	**R01130**	57.70
BHI Agar (Brain Heart Infusion Agar)	M DP	10/Pk.	**R01132**	58.50
BHI Agar (Brain Heart Infusion Agar) General purpose medium	F - slant	20/Pk.	**R08062**	183.30
BHI Agar Bactiflask (Brain Heart Infusion Agar) General purpose medium	1 oz. TCF	20/Pk.	**R10244**	229.00
BHI Agar w/Chloramphenicol, Cycloheximide	F - slant	100/Cs.	**R08068**	1470.00
BHI Agar w/Chloramphenicol, Cycloheximide Bactiflask	1 oz. TCF	20/Pk.	**R10245**	290.50
BHI Agar w/Chloramphenicol, Cycloheximide For selective isolation of fungi and yeast	F - slant	20/Pk.	**R08069**	237.50
BHI Agar w/Sheep Blood	F - slant	20/Pk.	**R08066**	183.10
BHI Agar w/Sheep Blood	F - slant	100/Cs.	**R08064**	729.50

Description	Type	Qty.	Cat. No.	Price
B				
BHI Agar w/Sheep Blood	M DP	10/Pk.	**R01136**	60.70
BHI Agar w/Sheep Blood	M DP	100/Cs.	**R01139**	652.50
BHI Agar w/Sheep Blood Bactiflask General purpose medium	1 oz. TCF	20/Pk.	**R10246**	211.50
BHI Agar w/Sheep Blood, Chloramphenicol	M DP	10/Pk.	**R01140**	83.50
BHI Agar w/Sheep Blood, Chloramphenicol, Cycloheximide	F - slant	20/Pk.	**R08073**	228.00
BHI Agar w/Sheep Blood, Chloramphenicol, Cycloheximide	M DP	10/Pk.	**R01142**	97.90
BHI Agar w/Sheep Blood, Chloramphenicol, Gentamicin	F - slant	100/Pk.	**R08070**	838.00
BHI Agar w/Sheep Blood, Chloramphenicol, Gentamicin	M DP	10/Pk.	**R01144**	85.40
BHI Agar w/Sheep Blood, Chloramphenicol, Gentamicin Bactiflask	1 oz. TCF	20/Pk.	**R10248**	250.00
BHI Agar w/Sheep Blood, Chloramphenicol, Gentamicin, Cycloheximide	F - slant	20/Pk.	**R08080**	221.50
BHI Agar w/Sheep Blood, Chloramphenicol, Gentamicin, Cycloheximide	M DP	10/Pk.	**R01148**	94.30
BHI Agar w/Sheep Blood, Chloramphenicol, Gentamicin, Cycloheximide Bactiflask	1 oz. TCF	20/Pk.	**R10250**	288.00
BHI Agar w/Sheep Blood, Penicillin, Streptomycin	M DP	10/Pk.	**R01152**	99.80
BHI Agar w/Sheep Blood, Penicillin, Streptomycin, Yeast Extract	M DP	10/Pk.	**R01160**	99.90
BHI Agar w/Vancomycin	M	10/Pk.	**R01176**	69.20
BHI Broth	BB - 100mL	Each	**R20011**	36.45
BHI Broth (Brain Heart Infusion Broth)	D - 0.5mL FL	20/Pk.	**R060252**	128.60
BHI Broth (Brain Heart Infusion Broth)	D - 0.5mL FL	100/Pk.	**R060250**	547.00
BHI Broth (Brain Heart Infusion Broth)	D - 2mL	20/Pk.	**R060260**	121.40
BHI Broth (Brain Heart Infusion Broth)	D - 2mL	100/Pk.	**R060258**	513.00
BHI Broth (Brain Heart Infusion Broth)	D - 4mL	20/Pk.	**R060266**	133.90
BHI Broth (Brain Heart Infusion Broth)	D - 4mL	100/Pk.	**R060264**	514.00
BHI Broth (Brain Heart Infusion Broth)	D - 5mL	20/Pk.	**R060272**	125.20
BHI Broth (Brain Heart Infusion Broth)	D - 5mL	100/Pk.	**R060270**	501.00
BHI Broth (Brain Heart Infusion Broth)	F - 10mL	20/Pk.	**R08132**	145.80
BHI Broth (Brain Heart Infusion Broth)	F - 10mL	100/Pk.	**R08130**	607.00
BHI Broth w/6.5% NaCl (Brain Heart Infusion Broth)	D - 4.5mL	20/Pk.	**R060286**	139.60
BHI Broth w/6.5% NaCl (Brain Heart Infusion Broth)	D - 4.5mL	100/Pk.	**R060284**	606.00
BHI Broth w/Fildes Enrichment (Brain Heart Infusion Broth)	D - 5mL	100/Pk.	**R060280**	818.50
BHI Broth w/Hemin, Vitamin K (Brain Heart Infusion Broth)	D - 5mL	20/Pk.	**R060278**	181.20
BHI Broth w/Hemin, Vitamin K (Brain Heart Infusion Broth)	D - 5mL	100/Pk.	**R060276**	772.00
BHI Broth w/Hemin, Vitamin K (Brain Heart Infusion Broth)	E - 10mL	20/Pk.	**R07019**	169.10
BHI Broth w/X & V Factors (Brain Heart Infusion Broth)	D - 5mL	20/Pk .	**R060290**	258.50
BiGGY Agar (Bismuth Sulfite Glucose Glycine Yeast)	F - slant	20/Pk.	**R08152**	237.50
BiGGY Agar (Bismuth Sulfite Glucose Glycine Yeast) (Nickerson Agar)	M	10/Pk.	**R01180**	95.10
Bile Esculin Agar	D - slant	20/Pk.	**R060294**	127.70
Bile Esculin Agar	D - slant	100/Cs.	**R060292**	558.50
Bile Esculin Agar	M	10/Pk.	**R01190**	63.60
Bile Esculin Agar BHI Agar w/6.5% NaCl	BP	10/Pk.	**R02010**	130.60
Bile Esculin Azide Agar	M	10/Pk.	**R01194**	56.10
Bile Esculin Azide Agar	M	100/Pk.	**R01189**	784.00

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
B				
Bile Esculin Azide Agar Selective medium	D - slant	20/Pk.	**R060298**	144.00
Bile Esculin Azide Agar Selective medium	SP	15/Pk.	**R01195**	97.60
Bile Esculin Azide Agar w/Vancomycin 6µg/mL	M	10/Pk.	**R01186**	73.50
Bile Esculin Azide Broth Selective medium	D - 2mL	20/Pk.	**R060302**	140.10
Bile Esculin Azide Broth Selective medium	D - 2mL	100/Pk.	**R060300**	574.00
Birdseed Agar	M	10/Pk.	**R01192**	104.10
Blood Agar (TSA 5% Sheep Blood) // Chocolate Agar	BP	10/Pk.	**R02030**	59.80
Blood Agar (TSA 5% Sheep Blood) // Chocolate Agar	BP	100/Cs.	**R02029**	549.00
Blood Agar (TSA 5% Sheep Blood) // SXT Blood Agar	BP	10/Pk.	**R02053**	127.50
Blood Agar (TSA 5% Sheep Blood) // EMB Agar (Levine)	BP	10/Pk.	**R02040**	60.00
Blood Agar (TSA 5% Sheep Blood) // EMB Agar (Levine)	BP	100/Cs.	**R02041**	563.00
Blood Agar (TSA 5% Sheep Blood) // MacConkey Agar	BP	10/Pk.	**R02050**	55.50
Blood Agar (TSA 5% Sheep Blood) // MacConkey Agar	BP	100/Pk.	**R02049**	495.00
Blood Agar (TSA w/10% Sheep Blood)	M	10/Pk.	**R01204**	111.80
Blood Agar (TSA w/5% Rabbit Blood)	M	10/Pk.	**R01210**	108.10
Blood Agar (TSA w/5% Sheep Blood)	D - slant	20/Pk.	**R060312**	151.50
Blood Agar (TSA w/5% Sheep Blood)	D - slant	100/Cs.	**R060310**	689.50
Blood Agar (TSA w/5% Sheep Blood)	M	10/Pk.	**R01200**	41.45
Blood Agar (TSA w/5% Sheep Blood)	M	100/Cs.	**R01202**	430.50
Blood Agar (TSA w/5% Sheep Blood)	SP	15/Pk.	**R01201**	67.20
Blood Agar (TSA w/5% Sheep Blood)	SP	150/Cs.	**R01198**	634.50
Blood Agar w/Ampicillin (TSA w/5% Sheep Blood)	M	10/Pk.	**R01226**	65.40
Blood Agar // Blood Agar (TSA 5% Sheep Blood)	BP	100/Cs.	**R02019**	670.00
Blood Agar w/GCHI Enrichment (TSA w/5% Horse Blood)	M	10/Pk.	**R01208**	66.50
Blood Agar w/Gentamicin (TSA w/5% Sheep Blood)	M	10/Pk.	**R01227**	298.50
Blood Agar w/o GCHI Enrichment (TSA w/5% Horse Blood)	M	10/Pk.	**R01207**	63.70
Blood Agar w/Neomycin 10 mcg (TSA w/5% Sheep Blood)	M	10/Pk.	**R01231**	59.10
Bordet Gengou Agar w/Blood	M	10/Pk.	**R01240**	109.50

Packaging Key

Media Packaging Type	Abbreviation	Media Packaging Type	Abbreviation
13 x 100mm Tube	A	Filter	FL
15 x 45mm Tube	B	Hungate Cap	HC
15 x 90mm Tube	C	Individual Wrap Plate	IWP
15 x 103mm Tube	D	Monoplate	M
16 x 125mm Tube	E	Organism	Org.
20 x 113mm Tube	F	Plate	P
20 x 150mm Tube	G	Polypropylene Bottle	PB
27 x 70mm Tube	H	Pour Tube	PT
Ampules	Amp.	Pour Tube, Deep	PTD
Biplate	BP	Quadplate	Q
Blood Culture Bottle	BCB	Rubber Stopper	RS
Borosilicate Bottle	BB	Serum Bottle	SB
Boston Round Bottle	BRB	Single Bag	SBG
Bottle	Btl.	Spacesaver Plate	SP
Butt (10 x 103mm)	BT	Thin Pour	TP
Clear Square Bottle	CSB	Tissue Culture Flask	TCF
Double Bag	DBG	Triplate	TRI
Double Pour	DP	Tube	T
Durham Tube	DT	Wide Mouth Bottle	WMB
Envelope	Env.	Vial	Vl.

Description	Type	Qty.	Cat. No.	Price
B				
Bovine Albumin Fraction V 0.2%	F - 10mL	20/Pk.	**R08194**	216.00
Bovine Albumin Fraction V 0.2%	PB - 5mL	Each	**R20018**	19.28
Brilliant Green Agar	M	10/Pk.	**R01246**	69.80
Brilliant Green Agar w/Novobiocin	M	10/Pk.	**R01247**	92.90
Brilliant Green Agar w/Sulfa	Monoplate	10/Pk.	**R110112**	175.60
Brilliant Green Bile Broth 2%	E - DT	20/Pk.	**R07022**	238.00
Brilliant Green Bile Broth 2%	E - DT	100/Pk.	**R07020**	904.50
Brucella Agar w/5% Sheep Blood	M	10/Pk.	**R01252**	79.10
Brucella Agar w/5% Sheep Blood, Hemin, Vitamin K	15 × 150mm P	10/Pk.	**R04011**	136.60
Brucella Agar w/5% Sheep Blood, Hemin, Vitamin K	M	10/Pk.	**R01254**	56.60
Brucella Agar w/5% Sheep Blood, Hemin, Vitamin K	M	100/Pk.	**R01255**	555.00
Brucella Agar w/5% Sheep Blood, Trimethoprim, Vancomycin, Polymyxin B (Skirrow)	M	10/Pk.	**R01258**	88.70
Brucella Agar w/Laked Blood, Hemin, Vitamin K	15 × 150mm P	10/Pk.	**R04012**	147.70
Brucella Agar, LKV Laked blood w/ kanamycin, vancomycin	M	10/Pk.	**R01262**	153.80
Brucella Broth	D - 5mL	20/Pk.	**R060322**	151.10
Brucella Broth	D - 5mL	100/Pk.	**R060320**	609.00
Brucella Broth w/.16% Agar	D - 5mL	20/Pk.	**R060342**	200.50
Brucella Broth w/.16% Agar, 1%Glycine	D - 5mL	20/Pk.	**R060354**	215.00
Brucella Broth w/.16% Agar, 3.5% NaCl	D - 5mL	20/Pk.	**R060358**	195.70
Brucella Broth w/16% Agar, 1% Potassium Nitrate	D - 5mL	20/Pk.	**R060362**	211.50
Buffered CYE Agar (BCYE)	M	10/Pk.	**R01342**	94.60
Buffered CYE Agar (Buffered Charcoal Yeast Extract) (BCYE)	E - slant	20/Pk.	**R07092**	229.50
Buffered CYE Agar, Non-supplemented (Buffered Charcoal Yeast Extract)	M	10/Pk.	**R01334**	103.80
Buffered CYE Differential Agar w/BTB, BCP (BCYE w/Dyes)	M	10/Pk.	**R01343**	100.90
Buffered CYE Differential Agar w/BTB, BCP, Polymyxin B, Anisomycin, Vancomycin (BCYE w/Dyes & PAV)	M	10/Pk.	**R01333**	102.70
Buffered CYE Selective Agar w/Dyes, Glycine, Polymyxin B, Vancomycin	M	10/Pk.	**R01338**	99.00
Buffered CYE Selective Agar w/Polymyxin B, Anisomycin Cefamandole (BCYE w/PAC)	M	10/Pk.	**R01339**	96.60
Buffered CYE Selective Agar w/Polymyxin B, Anisomycin, Vancomycin (BCYE w/PAV)	M	10/Pk.	**R01341**	92.40
Burkholderia Cepacia Selective Agar (BCSA)	M	10/Pk.	**R01245**	101.70
C				
Campy Blood Agar w/trimethoprim, vancomycin, polymyxin B, cephalothin, amphotericin B	M	10/Pk.	**R01280**	66.80
Campy Blood Agar w/trimethoprim, vancomycin, polymyxin B, cephalothin, amphotericin B	M	100/Pk.	**R01284**	694.50
Campy Blood Agar w/trimethoprim, vancomycin, polymyxin B, cephalothin, amphotericin B	SP	15/Pk.	**R01281**	140.50
Campy Thioglycollate Medium w/.16% agar, trimethoprim, vancomycin, polymyxin B, cephalothin and amphotericin B, w/o indicator, (Thioglycollate Medium w/.16% Agar)	D - 9mL	20/Pk.	**R060372**	191.10

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
C				
Campy Thioglycollate Medium w/.16% agar, trimethoprim, vancomycin, polymyxin B, cephalothin and amphotericin B, w/o indicator	D - 9mL	100/Pk.	**R060370**	752.00
Campylobacter Selective Medium	M	10/Pk.	**R01274**	77.40
Candida BCG Agar	M DP	10/Pk.	**R01282**	215.50
CandidaTube (BiGGY Agar) (Nickerson Agar)	H	10/Pk.	**R241035**	123.80
Carbon Assimilation Broth Base Control	D - 5mL	20/Pk.	**R060382**	194.40
Casamino Acid Solution (1%)	D - 0.5mL	20/Pk.	**R060462**	197.40
Cary-Blair Transport Medium	D - 9mL	20/Pk.	**R060452**	216.50
Cary-Blair Transport Medium	D - 9mL	100/Pk.	**R060450**	905.00
Cary-Blair w/indicator	SP	12/Cs.	**R21620**	68.40
Casein Agar	F - PT	20/Pk.	**R08210**	226.50
Modified Casein Agar	M	10/Pk.	**R01618**	79.10
Casman Agar w/ 5% Sheep Blood	M	10/Pk.	**R01212**	67.10
CCFA Modified Agar w/ Cefoxitin, Cycloserine, Fructose	M	10/Pk.	**R01268**	105.30
CCFA Modified Agar w/ Horse Blood w/ Cefoxitin, Cycloserine, Fructose	M	10/Pk.	**R01266**	278.50
Cetrimide Selective Agar	M	10/Pk.	**R01292**	72.10
Charcoal Selective Medium w/Vancomycin, Cycloheximide, Cefoperazone	M	10/Pk.	**R01294**	137.30
Chocolate Agar Enriched	M	10/Pk.	**R01300**	40.30
Chocolate Agar	F- slant	20/Pk.	**R08240**	161.60
Chocolate Agar	M	100/Pk.	**R-01303**	483.00
Chocolate Agar//Chocolate Agar	BP	10/Pk.	**R02055**	71.30
Chocolate Agar Enriched	D - slant	20/Pk.	**R060482**	149.50
Chocolate Agar Enriched	D - slant	100/Pk.	**R060480**	662.50
Chocolate Agar w/ Bacitracin	M	10/Pk.	**R01304**	69.50
Chocolate Agar Enriched	M	100/Pk.	**R01302**	388.00
Chocolate Agar Enriched	SP	15/Pk.	**R01301**	66.30
Chocolate Agar Enriched	SP	150/Pk.	**R01293**	616.00
Campy CVA Medium w/cefoperazone, vancomycin, amphotericin B, sheep blood	M	100/Pk.	**R01272**	661.00
Chocolate Agar Thayer Martin Agar Improved	BP	10/Pk.	**R02058**	107.31
Chocolate Agar w/ Yeast extract, Hemin, Vitamin K	M	10/Pk.	**R01308**	94.90
CIN Agar (Yersinia Selective Agar)	G - 25mL PT	20/Pk.	**R09999**	247.00
CLED Agar (Cystine-Lactose-Electrolyte Deficient)	M	10/Pk.	**R01312**	80.00
Clostridium Difficile Agar	M	10/Pk	**R01310**	110.30
Columbia Blood Agar w/5% Sheep Blood	M	10/Pk.	**R01215**	45.80
Columbia CNA w/5% Sheep Blood w/Colistin, Nalidixic Acid	M	10/Pk.	**R01320**	46.40
Columbia Blood Agar w/5% Sheep Blood	M	100/Pk.	**R01217**	418.50
Columbia Blood Agar w/5% Sheep Blood	SP	15/Pk.	**R01216**	73.90
Columbia CNA MacConkey Agar	BP	10/Pk.	**R02065**	58.70
Columbia CNA MacConkey Agar	BP	100/Pk.	**R02066**	527.00
Columbia CNA w/ 5% Sheep Blood, Vancomycin	M	10/Pk.	**R01316**	99.90
Columbia CNA w/5% Sheep Blood w/ Colistin, Nalidixic Acid	M	100/Pk.	**R01322**	457.50
Columbia CNA w/5% Sheep Blood w/Colistin, Nalidixic Acid	SP	15/Pk.	**R01321**	77.10
Columbia Horse Blood Bi-layer Medium	M	10/Pk.	**R01477**	106.60
Cooked Meat Medium w/Glucose, Hemin, Vitamin K	D - 7mL	20/Pk.	**R060546**	189.70

Description	Type	Qty.	Cat. No.	Price
C				
Cooked Meat Medium w/Hemin, Vitamin K	D - 7mL	20/Pk.	**R060542**	202.00
Cooked Meat Medium w/Glucose, Hemin, Vitamin K	D - 7mL	100/Pk.	**R060544**	760.00
Cooked Meat Medium w/Glucose, Hemin, Vitamin K	E - 10mL, HC	20/Pk.	**R07086**	217.50
Cooked Meat Medium w/Glucose, Hemin, Vitamin K	E - 10mL, HC	100/Pk.	**R07084**	811.50
Cooked Meat Medium w/Hemin, Vitamin K	D - 7mL	100/Pk.	**R060540**	787.50
Cornmeal Agar	M DP	10/Pk.	**R01326**	103.60
Cornmeal Agar	G - PT	20/Pk.	**R09282**	209.50
Cornmeal Agar w/1% Dextrose	G - PT	20/Pk.	**R09286**	198.50
Cornmeal Agar w/Polysorbate 80	M	10/Pk.	**R01328**	74.10
Cornmeal Agar w/Polysorbate 80	G - PT	20/Pk.	**R09290**	198.90
Cornmeal Agar w/Polysorbate 80, Trypan Blue	M	10/Pk.	**R01330**	108.10
Cornmeal Agar w/Tween 80	Monoplate DP	10/Pk.	**R01354**	244.00
CTA Base Control	D - 4mL	20/Pk.	**R060572**	141.40
CTA Base Control w/Ascitic Fluid	D - 4mL	20/Pk.	**R060682**	226.50
CTA Base Control	D - 4mL	100/Pk.	**R060570**	548.00
CTA w/1% Dextrose	D - 4mL	20/Pk.	**R060588**	149.50
CTA w/1% Dextrose w/Ascitic Fluid	D - 4mL	20/Pk.	**R060686**	202.00
CTA w/1% Dextrose	D - 4mL	100/Pk.	**R060586**	588.00
CTA w/1% Fructose	D - 4mL	20/Pk.	**R060596**	211.00
CTA w/1% Lactose	D - 4mL	20/Pk.	**R060616**	145.30
CTA w/1% Lactose w/Ascitic Fluid	D - 4mL	20/Pk.	**R060694**	203.00
CTA w/1% Lactose	D - 4mL	100/Pk.	**R060614**	562.00
CTA w/1% Maltose	D - 4mL	20/Pk.	**R060620**	146.60
CTA w/1% Maltose	D - 4mL	100/Pk.	**R060618**	599.00
CTA w/1% Maltose w/Ascitic Fluid	D - 4mL	20/Pk.	**R060698**	213.50
CTA w/1% Mannitol	D - 4mL	20/Pk.	**R060624**	149.90
CTA w/1% Salicin	D - 4mL	20/Pk.	**R060648**	196.40
CTA w/1% Sucrose	D - 4mL	100/Cs.	**R060658**	497.82
CTA w/1% Sucrose	D - 4mL	20/Pk.	**R060660**	154.90
CTA w/1% Sucrose w/Ascitic Fluid	D - 4mL	20/Pk.	**R060710**	207.00
CTA w/1% Xylose	D - 4mL	20/Pk.	**R060668**	214.50
CVA Medium (cefoperazone, vancomycin, amphotericin B) w/sheep blood	M	10/Pk.	**R01270**	65.10
Cystine Heart Agar w/rabbit blood	M	10/Pk.	**R01346**	105.50
Cystine Tellurite Blood Agar	M	10/Pk.	**R01348**	104.20
Cystine Tellurite Blood Agar	D - slant	20/Pk.	**R060734**	222.00
Czapek Medium	Monoplate DP	10/Pk	**R01350**	98.90
D				
Decarboxylase Broth Base Control Moeller	D - 5mL	20/Pk.	**R060752**	140.00
Decarboxylase Broth Base Control Moeller	D - 5mL	100/Pk.	**R060750**	649.00
Decarboxylase Broth Arginine (Arginine Broth) Moeller	D - 5mL	100/Cs.	**R060754**	656.00
Decarboxylase Broth Lysine	D - 5mL	100/Pk.	**R060758**	627.50
Decarboxylase Broth Ornithine (Ornithine Broth) Moeller	D - 5mL	100/Pk.	**R060762**	767.50
Decarboxylase Broth Arginine (Arginine Broth) Moeller	D - 5mL	20/Pk.	**R060756**	148.30
D/E Neutralizing Agar	G - PT	20/Pk.	**R09332**	214.00
D/E Neutralizing Agar	M	10/Pk.	**R01362**	65.00
D/E Neutralizing Broth	D - 5mL	100/Cs.	**R060770**	711.00
D/E Neutralizing Broth	G - 9mL	20/Pk.	**R09334**	231.00
Dermatophyte Test Medium (DTM)	M DP	10/Pk.	**R01365**	100.10

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
D				
Dermatophyte Test Medium Bactiflask™ (DTM)	1 oz. TCF	20/Pk.	**R10254**	264.50
DermaTube (DTM) (Dermatophyte Test Medium)	H	10/Pk.	**R241045**	157.60
Diamond's Medium Modified	E - 10mL	100/Pk.	**R07096**	876.50
Diamond's Medium Modified	E - 10mL	20/Pk.	**R07097**	212.00
DNase Test Agar	Monoplate	10/Pk	**R01375**	85.00
DNase Test Agar w/Methyl Green	Monoplate	10/Pk	**R01376**	113.40
DNase Test Agar w/Methyl Green	F - slant	20/Pk	**R08342**	219.50
DNase Test Agar w/Toluidine Blue	Monoplate	10/Pk	**R01377**	92.90
Dubos Tween™ Albumin Broth	D - 5mL	20/Pk.	**R060856**	203.00
E				
EC Medium	E - 10mL DT	20/Pk.	**R07102**	186.80
EC Medium w/MUG	E - 10mL	20/Pk.	**R07655**	241.50
m-Enterococcus Agar	M	10/Pk.	**R01430**	107.20
EMB Agar, Modified (HHT) w/lactose, sucrose	M	10/Pk.	**R01406**	77.80
EMB Agar, Modified	M	100/Pk.	**R01405**	596.00
EMB Agar, Levine	M	100/Pk.	**R01402**	393.50
EMB Agar, Levine MacConkey Agar	BP	10/Pk.	**R02068**	76.00
Endo Agar	M	10/Pk.	**R01420**	106.00
Esculin Broth w/0.07% Agar	D - 5mL	20/Pk.	**R060872**	151.10
Esculin Hydrolysis Agar	D - slant	20/Pk.	**R060878**	166.60
Esculin Hydrolysis Agar	D - slant	100/Pk.	**R060876**	847.50
Eugon Urea Broth	D - 1mL	20/Pk.	**R060896**	201.50
Eugonic Broth Modified	E - 10mL	100/Pk.	**R07104**	777.50
m-ENDO Agar LES	15 × 60mm Plate	10/Pk.	**R01425**	102.10
m-ENDO Agar LES	M	10/Pk.	**R01426**	102.90
F				
Fastidious Broth	E - 10mL	100/Cs.	**R07664**	868.50
Fluid A w/ 0.1% Peptone (Peptone Fluid)	BB Septum-300 ml	10/Pk.	**R112312**	319.50
Fluid A w/ 0.1% Peptone (Peptone Fluid)	SB -300mL	10/Pk.	**R112311**	247.00
Fluid D w/ 0.1% Peptone, 0.1% Polysorbate 80	BB Septum-300mL	10/Pk.	**R112322**	509.50
Fluid D w/ 0.1% Peptone, 0.1% Polysorbate 80	SB - 300mL	10/Pk.	**R112321**	282.00

Packaging Key

Media Packaging Type	Abbreviation	Media Packaging Type	Abbreviation
13 x 100mm Tube	**A**	**Filter**	**FL**
15 x 45mm Tube	**B**	**Hungate Cap**	**HC**
15 x 90mm Tube	**C**	**Individual Wrap Plate**	**IWP**
15 x 103mm Tube	**D**	**Monoplate**	**M**
16 x 125mm Tube	**E**	**Organism**	**Org.**
20 x 113mm Tube	**F**	**Plate**	**P**
20 x 150mm Tube	**G**	**Polypropylene Bottle**	**PB**
27 x 70mm Tube	**H**	**Pour Tube**	**PT**
Ampules	**Amp.**	**Pour Tube, Deep**	**PTD**
Biplate	**BP**	**Quadplate**	**Q**
Blood Culture Bottle	**BCB**	**Rubber Stopper**	**RS**
Borosilicate Bottle	**BB**	**Serum Bottle**	**SB**
Boston Round Bottle	**BRB**	**Single Bag**	**SBG**
Bottle	**Btl.**	**Spacesaver Plate**	**SP**
Butt (10 x 103mm)	**BT**	**Thin Pour**	**TP**
Clear Square Bottle	**CSB**	**Tissue Culture Flask**	**TCF**
Double Bag	**DBG**	**Triplate**	**TRI**
Double Pour	**DP**	**Tube**	**T**
Durham Tube	**DT**	**Wide Mouth Bottle**	**WMB**
Envelope	**Env.**	**Vial**	**VI.**

Description	Type	Qty.	Cat. No.	Price
F				
Fluid D w/ 0.1% Peptone, 0.1% Polysorbate 80	WMB Screw-100mL	10/Pk.	**R112325**	612.00
Fluid Thioglycollate Medium; w/indicator, Dextrose	BB Septum - 100mL	10/Pk.	**R112646**	395.50
Fluid Thioglycollate Medium; w/Indicator, Dextrose	D - 9mL	20/Pk.	**R064692**	116.50
Fluid Thioglycollate Medium; w/Indicator, Dextrose	D - 9mL	100/Cs.	**R064690**	480.00
Fluid Thioglycollate Medium; w/Indicator, Dextrose	E - 10mL	100/Cs.	**R07172**	576.50
Fluid Thioglycollate Medium; w/indicator, Dextrose	E - 10mL HC	20/Pk.	**R117800**	182.00
Fluid Thioglycollate Medium; w/indicator, Dextrose	F - 15mL	20/Pk.	**R118821**	173.10
Fluid Thioglycollate Medium; w/Indicator, Dextrose	F - 18mL	100/Cs.	**R08846**	602.50
Fluid Thioglycollate Medium; w/indicator, Dextrose	WMB Screw - 100mL	10/Pk.	**R112640**	199.60
Fraser Broth w/Ferric Ammonium Citrate	E - 10mL	20/Pk.	**R07671**	229.50
G				
GC Agar Base	Btl. - 500g	500g	**R453502**	116.30
GC Agar Base	Btl. - 2.5kg	2.5kg	**R453504**	485.50
GC Agar Base w/1% GCHI w/o Hemoglobin	M	10/Pk	**R01460**	87.90
GC Agar Base, w/1% GCHI w/o Hemoglobin	15 × 150mm Plate	10/Pk	**R04030**	128.70
Gelatin Broth 0.4%	D - 5mL	20/Pk.	**R060942**	225.00
Gelatin Infusion Medium	D - 5mL	20/Pk.	**R060956**	185.40
Gelatin Medium (Nutrient Gelatin) (12%)	D - 5mL	20/Pk.	**R060952**	150.50
GN Broth (Hajna)	D - 5mL	20/Pk.	**R060992**	110.00
GN Broth (Hajna)	F - 10mL	20/Pk.	**R08382**	137.90
GN Broth (Hajna)	D - 5mL	100/Cs.	**R060990**	501.00
GN Broth (Hajna)	F - 10mL	100/Cs.	**R08380**	578.50
H				
Haemophilus Test Medium (HTM)	15 × 100mm Plate	10/Pk	**R01503**	64.40
Haemophilus Test Medium (HTM)	15 × 150mm Plate	10/Pk	**R04033**	106.90
Haemophilus Test Medium Broth	E - 10mL	20/Pk	**R07681**	226.50
HBT Bilayer Medium (Human Blood-Tween80)	M	10/Pk	**R01478**	102.60
HE Agar (Hektoen Enteric Agar)	M	10/Pk	**R01480**	55.90
HE Agar (Hektoen Enteric Agar)	SP	15/Pk.	**R01481**	87.00
HE Agar (Hektoen Enteric Agar)	M	100/Cs.	**R01483**	519.50
HE Agar SS Agar	BP	10/Pk	**R02082**	137.90
HE Agar w/Novobiocin	M	10/Pk	**R01484**	126.40
HE Agar XLD Agar	BP	10/Pk	**R02086**	138.20
Heart Infusion Agar	D - slant	20/Pk.	**R061012**	206.50
Heart Infusion Agar	D - slant	100/Cs.	**R061010**	599.50
Haemophilus Isolation Agar w/bacitracin, horse blood	M	10/Pk.	**R01470**	60.70
Heart Infusion Broth	D - 5mL	20/Pk.	**R061032**	156.10
Heart Infusion Broth	D - 5mL	100/Cs.	**R061030**	1079.00
Heart Infusion Broth w/BCP, 1% Adonitol (Brom Cresol Purple)	D - 5mL	20/Pk.	**R061056**	206.50
Heart Infusion Broth w/BCP, 1% Arabinose (Brom Cresol Purple)	D - 5mL	20/Pk.	**R061060**	208.00
Heart Infusion Broth w/BCP Base Control (Brom Cresol Purple)	D - 5mL	20/Pk.	**R061052**	201.50

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
H				
Heart Infusion Broth w/BCP, 1% Inositol (Brom Cresol Purple)	D - 5mL	20/Pk.	**R061088**	195.70
Heart Infusion Broth w/BCP, 1% Inulin	D - 5mL	20/Pk.	**R061092**	214.50
Heart Infusion Broth w/BCP, 1% Lactose	D - 5mL	20/Pk.	**R061096**	226.00
Heart Infusion Broth w/BCP, 1% Mannitol	D - 5mL	20/Pk.	**R061104**	197.00
Heart Infusion Broth w/BCP, 1% Raffinose	D - 5mL	20/Pk.	**R061116**	202.50
Heart Infusion Broth w/BCP, 1% Salicin	D - 5mL	20/Pk.	**R061124**	204.00
Heart Infusion Broth w/BCP, 1% Sorbitol	D - 5mL	20/Pk.	**R061128**	207.00
Heart Infusion Broth w/BCP, 1% Sucrose	D - 5mL	20/Pk.	**R061132**	209.00
Heart Infusion Broth w/BCP, 1% Trehalose	D - 5mL	20/Pk.	**R061136**	204.50
Heart Infusion Broth w/BCP, 1% Xylose	D - 5mL	20/Pk.	**R061140**	196.80
Heart Infusion Broth w/6.5% NaCl w/Brom Cresol Purple (Salt Broth)	D - 5mL	20/Pk.	**R061046**	155.60
Heart Infusion Broth w/6.5% NaCl w/Brom Cresol Purple (Salt Broth)	D - 5mL	100/Cs.	**R061044**	652.00
Herrolds Medium w/Mycobactin, Pyruvate	F - slant	20/Pk.	**R08385**	238.00
Hippurate Broth, Sodium Hippurate	D - 3mL	100/Cs.	**R061150**	658.00
Hippurate Broth, Sodium Hippurate	D - 3mL	20/Pk.	**R061152**	164.20
m-HPC Agar (Heterotrophic Plate Count Agar)	M	10/Pk.	**R01500**	156.90
I				
Indole Broth (Tryptone Broth)	D - 4mL	100/Cs.	**R061170**	611.00
Indole Nitrate Medium (Tryptone Nitrate Medium)	D - 5mL	20/Pk.	**R061184**	159.90
Inhibitory Mold Agar w/chloramphenicol	F - slant	100/Cs.	**R08410**	599.50
Inhibitory Mold Agar w/chloramphenicol	M - 26mL	10/Pk.	**R01505**	80.60
Inhibitory Mold Agar w/chloramphenicol	M - 35mL	10/Pk.	**R01508**	122.60
Inhibitory Mold Agar w/gentamicin w/chloramphenicol	M - DP	10/Pk.	**R01506**	79.20
J				
Jembec System w/Thayer Martin Agar Modified w/nystatin	Jembec Plate	10/Pk.	**R10310**	96.40
Jordans Tartrate Agar (Tartrate Agar)	D - 5mL butt	20/Pk.	**R061202**	226.00
K				
KBE Agar (Kanamycin Bile Esculin Agar)	M	10/Pk.	**R01510**	124.70
Kligler Iron Agar (KIA)	D - slant	20/Pk.	**R061242**	147.70
Kligler Iron Agar (KIA)	D - slant	100/Pk.	**R061240**	918.50
L				
Lactose Broth	WMB Lug-90mL	10/Pk.	**R112402**	161.10
Lactose Broth	WMB Screw-90mL	10/Pk.	**R112401**	190.60
Lauryl Tryptose Broth (1x) (LST Broth)	G - 10mL DT	20/Pk.	**R09447**	246.00
Lauryl Tryptose Broth, 1X	E - 1X, 10 mL DT	100/Pk.	**R117260**	814.00
Lauryl Tryptose Broth, 1X	G - 10mL DT	100/Pk.	**R09446**	1858.00
LB Agar (Luria-Bertani)	M	10/Pk.	**R110203**	63.10
LB Agar w/ Ampicillin 100µg/mL (Luria-Bertani)	15 × 100mm Plate	10/Pk.	**R110217**	119.80
LB Agar w/Chloramphenicol	M - DP	10/Pk.	**R110220**	114.90
LB Agar w/Kanamycin	M - DP	10/Pk.	**R110226**	103.10
LB Agar w/Kanamycin, 20µg	M	10/Pk.	**R110216**	115.50
Letheen Broth	E - 10mL	20/Pk.	**R07700**	215.50
Letheen Broth	WMB Lug - 99mL	110/Pk.	**R112423**	158.80
Listeria Enrichment Broth	E - 10mL	20/Pk.	**R07089**	156.50
Litmus Milk Medium	D - 9mL	20/Pk.	**R061276**	214.50
Loefflers Medium	D - slant	20/Pk.	**R061288**	230.50

Description	Type	Qty.	Cat. No.	Price
L				
Lowenstein-Jensen Gruft (LJ) w/ penicillin, nalidixic acid	F - slant	20/Pk.	**R08522**	183.20
Lowenstein-Jensen Gruft (LJ) w/ penicillin, nalidixic acid	F - slant	100/Pk.	**R08520**	679.00
Lowenstein-Jensen Medium (LJ)	F - slant	100/Pk.	**R08500**	583.00
Lowenstein-Jensen Medium (LJ)	F - slant	20/Pk.	**R08502**	142.60
Lowenstein-Jensen Medium (LJ)	G - 5mL butt	20/Pk.	**R09512**	220.00
Lowenstein-Jensen Medium (LJ)	G - slant	20/Pk.	**R09506**	181.90
Lowenstein-Jensen Medium (LJ)	G - slant	100/Pk.	**R09504**	706.00
Lowenstein-Jensen Medium w/5% Ferric Ammonium Citrate	F - slant	20/Pk.	**R08526**	232.50
Lowenstein-Jensen Medium w/5% NaCl (LJ)	F - slant	20/Pk.	**R08518**	226.50
Lowenstein-Jensen Mycobactocel (LJ) w/Cycloheximide, Lincomycin, Nalidixic Acid	F - slant	20/Pk.	**R08532**	161.40
Lowenstein-Jensen Mycobactocel (LJ) w/Cycloheximide, Lincomycin, Nalidixic Acid	F - slant	100/Cs.	**R08530**	737.00
LPM Agar (Lithium chloride, Phenylethyl alcohol, Moxalactam)	M	10/Pk.	**R01525**	105.10
LSM Agar (Lipase Salt Mannitol)	Monoplate	10/Pk.	**R01540**	190.70
Lysine Iron Agar (LIA)	D - slant	20/Pk.	**R061302**	133.00
Lysine Iron Agar (LIA)	D - slant	100/Pk.	**R061300**	554.00
Lysozyme Broth	D - 5mL	20/Pk.	**R061308**	212.00
Lysozyme Control Broth (Glycerol Broth)	D - 5mL	20/Pk.	**R060972**	212.50
M				
MacConkey Agar	D - slant	20/Pk.	**R061322**	165.20
MacConkey Agar	M	10/Pk.	**R01550**	34.10
MacConkey Agar	M	100/Cs.	**R01552**	395.50
MacConkey Agar	SP	15/Pk.	**R01551**	65.10
MacConkey Agar	SP	150/Pk.	**R01562**	639.50
MacConkey Agar MacConkey Agar w/ Sorbitol	BP	10/Pk.	**R02095**	146.10
MacConkey Agar w/MUG	M	10/Pk.	**R01554**	79.70
MacConkey Agar w/o Crystal Violet	G - PT	20/Pk.	**R09538**	234.50
MacConkey Agar w/o Crystal Violet	M	10/Pk.	**R01558**	72.30
MacConkey Agar w/Sorbitol (SMAC)	G - PT	20/Pk.	**R09548**	235.00
MacConkey Agar w/Sorbitol (SMAC)	M	10/Pk.	**R01556**	63.80
MacConkey Agar w/Sorbitol (SMAC)	M	100/Pk.	**R01561**	642.00
MacConkey Agar w/Sorbitol, Cefixime, Tellurite	Monoplate	10/Pk.	**R110241**	87.90
MacConkey Agar w/Sorbitol, MUG	SP	15/Pk.	**R01563**	134.50
MacConkey Agar//PEA Sheep Blood Agar	BP	10/Pk.	**R02096**	130.10
MacConkey Broth	D - 5mL	20/Pk.	**R061336**	112.40
Malonate Broth Ewing Modification	D - 5mL	20/Pk.	**R061326**	170.60
Malt Extract Agar	M	10/Pk.	**R01567**	75.90
Malt Extract Agar	M DP	10/Pk.	**R01565**	74.90
Mannitol Agar	Monoplate	10/Pk.	**R110248**	104.70
Mannitol Salt Agar	M	10/Pk.	**R01580**	41.65
Mannitol Salt Agar (MSA)	SP	15/Pk.	**R01581**	95.00
Mannitol Salt Agar w/Oxacillin 4µg/mL	M	10/Pk.	**R01583**	93.70
McCarthy Agar	M	10/Pk.	**R01590**	104.60
McClung-Toabe Agar w/neomycin	M	10/Pk.	**R01056**	77.80
MEP Agar (Mannitol, Egg Yolk, Polymyxin Agar)	M	10/Pk.	**R01584**	106.30
Middlebrook 7H10 Agar	F - slant	20/Pk.	**R08562**	186.70
Middlebrook 7H10 Agar	F - slant	100/Pk.	**R08560**	789.50
Middlebrook 7H10 Agar	G - PT	20/Pk.	**R09565**	250.50

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
M				
Middlebrook 7H10 Agar	M DP	10/Pk.	**R01600**	85.90
Middlebrook 7H11 Agar	15 × 60mm P	10/Pk.	**R01603**	102.70
Middlebrook 7H11 Agar	F - slant	20/Pk.	**R08572**	167.70
Middlebrook 7H11 Agar	F - slant	100/Pk.	**R08570**	700.00
Middlebrook 7H11 Agar	M DP	10/Pk.	**R01605**	88.00
Middlebrook 7H10 Agar/Mitchison 7H11 Selective Agar	BP	10/Pk.	**R02118**	259.00
Middlebrook 7H11 Agar/Mitchison 7H11 Selective Agar	BP	10/Pk.	**R02112**	131.60
Middlebrook 7H11 Agar Thin Pour	SP	15/Pk.	**R01606**	145.70
Middlebrook 7H9 Broth w/ Tween80 (Tellurite Reduction Medium)	G - 5mL	20/Pk.	**R09558**	220.00
Middlebrook 7H9 Broth w/ Tween80 (Tellurite Reduction Medium)	G - 5mL	100/Pk.	**R09556**	917.00
Middlebrook 7H9 Broth w/Glycerol	D - 2mL	20/Pk.	**R061346**	207.50
Middlebrook 7H9 Broth w/Glycerol	D - 2mL	100/Pk.	**R061344**	831.00
MIL Medium (Motility Indole Lysine Medium)	D - 5mL	20/Pk.	**R061350**	141.60
MIO Medium (Motility Indole Ornithine Medium)	D - 5mL	20/Pk.	**R061366**	139.30
MIO Medium (Motility Indole Ornithine Medium)	D - 5mL	100/Pk.	**R061364**	613.00
Mitchison 7H11 Selective Agar w/carbenicillin, polymyxin B, amphotericin B, trimethoprim	F - slant	20/Pk.	**R08576**	215.00
Mitchison 7H11 Selective Agar w/carbenicillin, polymyxin B, amphotericin B, trimethoprim	F - slant	100/Pk.	**R08574**	779.50
Mitchison 7H11 Selective Agar w/carbenicillin, polymyxin B, amphotericin B, trimethoprim	M DP	10/Pk.	**R01610**	92.60
Modified Oxford Agar (MOX)	M	10/Pk.	**R01613**	102.00
Motility B Medium	D - 5mL	20/Pk.	**R061392**	155.40
Motility B Medium w/TTC Indicator	D - 5mL	20/Pk.	**R061394**	218.00
Motility GI Medium	D - 5mL	20/Pk.	**R061400**	192.10
Motility GI Medium	D - 5mL	100/Pk.	**R061398**	1093.00
Motility S Medium	D - 5mL	20/Pk.	**R061404**	208.50
Motility Test Medium	D - 5mL	20/Pk.	**R061410**	164.40
Motility Test Medium	D - 5mL	100/Pk.	**R061408**	707.50
Motility Test Medium w/TTC Indicator	D - 5mL	20/Pk.	**R061414**	171.70
Motility Test Medium w/TTC Indicator	D - 5mL	100/Pk.	**R061412**	707.00

Packaging Key

Media Packaging Type	Abbreviation	Media Packaging Type	Abbreviation
13 x 100mm Tube	A	Filter	FL
15 x 45mm Tube	B	Hungate Cap	HC
15 x 90mm Tube	C	Individual Wrap Plate	IWP
15 x 103mm Tube	D	Monoplate	M
16 x 125mm Tube	E	Organism	Org.
20 x 113mm Tube	F	Plate	P
20 x 150mm Tube	G	Polypropylene Bottle	PB
27 x 70mm Tube	H	Pour Tube	PT
Ampules	Amp.	Pour Tube, Deep	PTD
Biplate	BP	Quadplate	Q
Blood Culture Bottle	BCB	Rubber Stopper	RS
Borosilicate Bottle	BB	Serum Bottle	SB
Boston Round Bottle	BRB	Single Bag	SBG
Bottle	Btl.	Spacesaver Plate	SP
Butt (10 x 103mm)	BT	Thin Pour	TP
Clear Square Bottle	CSB	Tissue Culture Flask	TCF
Double Bag	DBG	Triplate	TRI
Double Pour	DP	Tube	T
Durham Tube	DT	Wide Mouth Bottle	WMB
Envelope	Env.	Vial	Vl.

Description	Type	Qty.	Cat. No.	Price
M				
MRS Agar (Man, Rogosa, Sharpe Agar)	M	10/Pk.	**R01585**	109.40
MRS Broth	D - 2mL	20/Pk.	**R061428**	224.50
MRVP Broth (Methyl Red Voges-Proskauer Broth)	D - 2mL	20/Pk.	**R061432**	148.10
MRVP Broth (Methyl Red Voges-Proskauer Broth)	D - 2mL	100/Pk.	**R061430**	672.50
MRVP Broth (Methyl Red Voges-Proskauer Broth)	D - 5mL	20/Pk.	**R061436**	146.20
MRVP Broth (Methyl Red Voges-Proskauer Broth)	D - 5mL	100/Pk.	**R061434**	642.00
Mucate Medium (Mucic Acid)	D - 4mL	20/Pk.	**R061462**	228.50
Mueller Hinton Agar	15 × 100mm P	10/Pk.	**R01620**	49.60
Mueller Hinton Agar	15 × 100mm P	100/Pk.	**R01624**	510.50
Mueller Hinton Agar	15 × 150mm P	10/Pk.	**R04050**	67.40
Mueller Hinton Agar	15 × 150mm P	40/Pk.	**R04052**	262.00
Mueller Hinton Agar	G - PT	20/Pk.	**R09592**	194.70
Mueller Hinton Agar w/1% Hemoglobin, 1% GCHI Enrichment	15 × 100mm P	10/Pk.	**R01627**	70.20
Mueller Hinton Agar w/1% Hemoglobin, 1% GCHI Enrichment (Chocolate Mueller Hinton)	15 × 150mm P	10/Pk.	**R04059**	132.10
Mueller Hinton Agar w/2% NaCl	M	10/Pk.	**R01621**	84.00
Mueller Hinton Agar w/4% NaCl, 6µg/ml Oxacillin	M	10/Pk.	**R01626**	83.30
Mueller Hinton Agar w/5% Sheep Blood	15 × 100mm P	10/Pk.	**R01622**	53.90
Mueller Hinton Agar w/5% Sheep Blood	15 × 100mm P	100/Pk.	**R01623**	576.00
Mueller Hinton Agar w/5% Sheep Blood	15 × 150mm P	10/Pk.	**R04055**	88.80
Mueller Hinton Agar w/5% Sheep Blood	15 × 150mm P	40/Pk.	**R04057**	381.00
Mueller Hinton Broth	BB - 500mL	4/Pk.	**R112474**	158.70
Mueller Hinton Broth	D - 1mL	20/Pk.	**R061472**	133.60
Mueller Hinton Broth	D - 1mL	100/Pk.	**R061470**	598.00
Mueller Hinton Broth	D - 4mL	20/Pk.	**R061480**	127.20
Mueller Hinton Broth	D - 4mL	100/Cs.	**R061478**	577.00
Mueller Hinton Broth	F - 10mL	100/Pk.	**R08594**	641.50
Mueller Hinton Broth w/2% Fildes Enrichment	D - 5mL	20/Pk.	**R061496**	207.00
Mueller Hinton Broth w/Cations (Ca, Mg)	BB - 500mL	4/Pk.	**R112475**	399.50
Mueller Hinton Broth w/Cations (Ca, Mg)	E - 10mL	20/Pk.	**R07128**	237.00
Mueller Hinton Broth w/Cations, LHB (Lysed Horse Blood)	CSB - 100mL	Each	**R112478**	48.45
Mycobiotic Agar (Mycocel Agar) w/chloramphenicol, cycloheximide	F - slant	20/Pk.	**R08602**	132.20
Mycobiotic Agar (Mycocel Agar) w/chloramphenicol, cycloheximide	F - slant	100/Pk.	**R08600**	560.00
Mycobiotic Agar (Mycocel Agar) w/chloramphenicol, cycloheximide	M DP	10/Pk.	**R01630**	66.20
Mycobiotic Agar, Bactiflask (Mycocel Agar) w/chloramphenicol, cycloheximide. Selective medium	1 oz. TCF	20/Pk.	**R10264**	259.00
MycoTube Mycobiotic Agar w/chloramphenicol, cycloheximide	H	10/Pk.	**R241055**	137.60
N				
Nitrate Agar	D - slant	20/Pk.	**R061526**	132.70
Nitrate Broth	D - 7mL DT	20/Pk.	**R061536**	164.30
Nitrate Substrate Broth	D - 2mL	20/Pk.	**R061548**	214.00
Nutrient Agar General-purpose Medium	M	10/Pk.	**R01640**	66.70
Nutrient Broth General-purpose Medium	D - 5mL	100/Pk.	**R061580**	643.00
Nutrient Broth	WMB Lug-100mL	10/Pk.	**R112482**	170.00
Nutrient Broth General-purpose Medium	D - 5mL	20/Pk.	**R061582**	172.90

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
O				
OF King Medium Base Control	D- 15mL	20/Pk.	**R061903**	220.50
OF King Medium w/1% Sucrose	D- 5mL	20/Pk.	**R061991**	220.50
OF King Medium w/1% Xylose	D- 5mL	20/Pk.	**R061999**	202.50
OF Medium Base Control (Hugh-Liefson)	D - 4mL	20/Pk.	**R061902**	172.20
OF Medium w/1% Arabinose (Hugh-Liefson)	D - 4mL	20/Pk.	**R061910**	212.00
OF Medium w/1% Dextrose	D - 4mL	20/Pk.	**R061918**	171.80
OF Medium w/1% Dextrose	D - 4mL	100/Pk.	**R061916**	673.00
OF Medium w/1% Fructose	D - 4mL	20/Pk.	**R061926**	207.50
OF Medium w/1% Lactose	D - 4mL	20/Pk.	**R061946**	172.80
OF Medium w/1% Maltose	D - 4mL	20/Pk.	**R061950**	161.90
OF Medium w/1% Mannitol	D - 4mL	20/Pk.	**R061954**	164.30
OF Medium w/1% Sucrose	D - 4mL	20/Pk.	**R061990**	169.60
OF Medium w/1% Xylose	D - 4mL	20/Pk.	**R061998**	193.40
OF Medium w/10% Dextrose	D - 4mL	20/Pk.	**R062012**	213.50
OFPBL Medium w/polymyxin B, bacitracin, lactose	M	10/Pk.	**R01653**	76.80
ONPG Broth	D - 1mL	20/Pk.	**R062032**	152.30
Oxford Agar	M	10/Pk.	**R110300**	107.40
Oxichrome Reagent	15mL/Btl.	Each	**R8309009**	37.85
P				
Peptone Yeast Glucose Broth (PYG) w/Hemin and Vitamin K	D - 9mL	20/Pk.	**R062150**	184.80
Phenol Red Agar w/10% Lactose	D - slant	20/Pk.	**R062564**	213.50
Phenol Red Broth Base Control	D - 5mL	20/Pk.	**R062202**	214.00
Phenol Red Broth w/1% Adonitol	D - 5mL	20/Pk.	**R062212**	228.50
Phenol Red Broth w/1% Arabinose	D - 5mL	20/Pk.	**R062222**	219.50
Phenol Red Broth w/1% Cellobiose	D - 5mL	20/Pk.	**R062232**	248.00
Phenol Red Broth w/1% Dextrose	D - 7mL DT	20/Pk.	**R062242**	217.00
Phenol Red Broth w/1% Dulcitol	D - 5mL	20/Pk.	**R062252**	198.60
Phenol Red Broth w/1% Fructose	D - 5mL	20/Pk.	**R062272**	221.00
Phenol Red Broth w/1% Galactose	D - 5mL	20/Pk.	**R062282**	210.00
Phenol Red Broth w/1% Glycerol	D - 5mL	20/Pk.	**R062292**	210.50
Phenol Red Broth w/1% Inositol	D - 5mL	20/Pk.	**R062302**	219.50
Phenol Red Broth w/1% Lactose	D - 5mL	20/Pk.	**R062322**	216.50
Phenol Red Broth w/1% Lactose	D - 7mL DT	20/Pk.	**R062326**	220.00
Phenol Red Broth w/1% Maltose	D - 5mL	20/Pk.	**R062332**	222.50
Phenol Red Broth w/1% Mannitol	D - 5mL	20/Pk.	**R062342**	206.00
Phenol Red Broth w/1% Mannose	D - 5mL	20/Pk.	**R062352**	237.50
Phenol Red Broth w/1% Melibiose	D - 5mL	20/Pk.	**R062362**	225.00
Phenol Red Broth w/1% Raffinose	D - 5mL	20/Pk.	**R062372**	221.00
Phenol Red Broth w/1% Rhamnose	D - 5mL	20/Pk.	**R062382**	210.50
Phenol Red Broth w/1% Salicin	D - 5mL	20/Pk.	**R062402**	238.50
Phenol Red Broth w/1% Sorbitol	D - 5mL	20/Pk.	**R062412**	205.50
Phenol Red Broth w/1% Sucrose	D - 5mL	20/Pk.	**R062432**	232.00
Phenol Red Broth w/1% Trehalose	D - 5mL	20/Pk.	**R062442**	206.00
Phenol Red Broth w/1% Xylose	D - 5mL	20/Pk.	**R062452**	206.00
Phenylalanine Agar	D - slant	20/Pk.	**R062182**	146.70
Phenylalanine Agar	D - slant	100/Pk.	**R062180**	658.00
Phenylethyl Alcohol Agar w/5% Sheep Blood	M	10/Pk.	**R01660**	49.50
Phenylethyl Alcohol Agar w/5% Sheep Blood	M	100/Pk.	**R01662**	471.00
Phenylethyl Alcohol Agar w/5% Sheep Blood (PEA Agar w/Sheep Blood)	SP	15/Pk.	**R01661**	80.30
Phosphate Buffer w/1% Peptone (Buffered Peptone Water)	PB - 90mL	10/Pk.	**R112088**	192.60
Phosphate Buffer w/1% Peptone (Buffered Peptone Water)	Plastic-400mL	10/Pk.	**R112033**	792.00

Description	Type	Qty.	Cat. No.	Price
P				
Phosphate Buffer w/MgCl pH 7.2 (Buffered Water) APHA Formulation	F - 9mL	100/Pk.	**R118610**	663.00
Plate Count Agar	M	10/Pk.	**R01685**	71.40
Plate Count Agar (Standard Methods Agar) (TGY: Tryptone-Glucose-Yeast Extract)	D - slant	20/Pk.	**R062602**	156.20
Plate Count Agar (Standard Methods Agar) (TGY: Tryptone-Glucose-Yeast Extract)	G - PT	20/Pk.	**R09642**	158.30
Plate Count Agar (Standard Methods Agar) (TGY: Tryptone-Glucose-Yeast Extract)	G - PT	100/Pk.	**R09640**	668.00
PLET Agar	M	10/Pk.	**R110322**	107.50
Porphyrin Test Agar	M	10/Pk.	**R01688**	104.90
Potassium Chloride Solution pH 2.2, 0.2M	D - 4.5mL	100/Pk.	**R062620**	670.50
Potassium Nitrate Assimilation Agar	E - slant	20/Pk.	**R07774**	249.50
Potassium Tellurite	25mL/Btl.	Each	**R21254**	68.40
Potato Dextrose Agar pH 3.5	M - DP	10/Pk.	**R01697**	102.00
Potato Dextrose Agar pH 5.6	F - slant	20/Pk.	**R08652**	150.10
Potato Dextrose Agar pH 5.6	G - PT	20/Pk.	**R09656**	187.70
Potato Dextrose Agar pH 5.6	M - DP	10/Pk.	**R01695**	57.90
Potato Dextrose Agar pH 5.6	M - DP	100/Pk.	**R01693**	720.00
Potato Dextrose Agar Slide Culture Plate	10 Plates	10/Pk.	**R20532**	161.40
Potato Flake Agar	F - slant	20/Pk.	**R08659**	239.00
Potato Flake Agar	M - DP	10/Pk.	**R01702**	69.40
Potato Flake Agar	TCF	20/Pk	**R10266**	251.50
Potato Flake Agar Slide Culture Plate	10 Plates	10/Pk.	**R20533**	150.10
PPLO Agar w/horse serum, amphotericin B, penicillin, thallium acetate	15 × 60mm P	10/Pk.	**R20260**	133.60
PPLO Agar w/horse serum, amphotericin B, penicillin, thallium acetate	M	10/Pk.	**R20261**	239.00
PPLO Broth w/horse serum, yeast extract	D - 5mL	20/Pk.	**R20360**	331.00
PPLO Broth, Selective w/horse serum, yeast extract, penicillin, thallium acetate, amphotericin B	D - 5mL	20/Pk.	**R20362**	375.50
PRAS BHI Broth (VPI) (Pre-reduced Anaerobic System Brain Heart Infusion Broth)	D - 7mL HC	20/Pk.	**R05025**	259.50
PRAS BHI Broth (VPI) (Pre-reduced Anaerobic System Brain Heart Infusion Broth)	E - 5mL RS	20/Pk.	**R05027**	225.00
PRAS Chopped Meat Broth	D - 7.5mL HC	20/Pk.	**R05035**	239.50
PRAS Chopped Meat Carbohydrate	E - 7.5mL RS	20/Pk.	**R05045**	224.50
PRAS Chopped Meat Carbohydrate; VPI	D - 7.5mL HC	20/Pk.	**R05047**	214.00
PRAS Cooked Meat Glucose	D - 7.5mL HC	20/Pk.	**R05055**	225.00
PRAS Gelatin Medium	E - 5mL RS	20/Pk.	**R05065**	204.50
PRAS Indole Nitrate Medium	E - 5mL RS	20/Pk.	**R05059**	218.00
PRAS PY Arabinose	E - 3mL RS	20/Pk.	**R05171**	225.50
PRAS PY Base Control	E - 3mL RS	20/Pk.	**R05161**	218.00
PRAS PY Bile	E - 3mL RS	20/Pk.	**R05175**	220.50
PRAS PY Glucose	E - 3mL RS	20/Pk.	**R05191**	216.50
PRAS PY Glucose w/Tween	D - 10mL HC	20/Pk.	**R05198**	232.50
PRAS PY Rhamnose	E - 3mL RS	20/Pk.	**R05233**	205.50
PRAS PY Sucrose	E - 3mL RS	20/Pk.	**R05247**	212.00
PRAS PY Trehalose	E - 3mL RS	20/Pk.	**R05251**	195.50
Presence-Absence Broth	BB - 50mL	10/Pk.	**R112511**	370.50
Pseudomonas Cepacia Agar (PC Agar) w/ticarcillin	M	10/Pk.	**R01709**	83.80
Pseudomonas F Agar (FLO Agar)	D - slant	20/Pk.	**R062632**	184.50
Pseudomonas F Agar (FLO Agar)	M	10/Pk.	**R01710**	114.70
Pseudomonas Isolation Agar	M	10/Pk.	**R01712**	101.70
Pseudomonas P Agar (TECH Agar)	D - slant	20/Pk.	**R062638**	171.50
Pseudomonas P Agar (TECH Agar)	M	10/Pk.	**R01714**	114.20

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
P				
Purple Broth Base Control	D - 7mL DT	20/Pk.	**R062756**	236.00
Purple Broth w/1% Adonitol	D - 7mL DT	20/Pk.	**R062766**	210.00
Purple Broth w/1% Arabinose	D - 7mL DT	20/Pk.	**R062776**	217.50
PYR Broth	D - 0.5mL	20/Pk.	**R062085**	186.50
Pyrazinamidase Agar	D - 5mL BT	20/Pk.	**R07138**	234.50
R				
R2A Agar	15 × 60mm P	10/Pk.	**R01723**	114.30
R2A Agar	BB - 200mL	10/Pk	**R112542**	383.50
R2A Agar	M	10/Pk.	**R01722**	67.20
Rapid Fermentation Agar Base Control (RFA) Control	D - 0.7mL	20/Pk.	**R064002**	208.00
Rapid Fermentation Agar w/2% Dextrose	D - 0.7mL	20/Pk.	**R064022**	216.00
Rapid Fermentation Agar w/2% Fructose	D - 0.7mL	20/Pk.	**R064032**	201.50
Rapid Fermentation Agar w/2% Lactose	D - 0.7mL	20/Pk.	**R064042**	208.50
Rapid Fermentation Agar w/2% Maltose	D - 0.7mL	20/Pk.	**R064052**	220.00
Rapid Fermentation Agar w/2% Sucrose	D - 0.7mL	20/Pk.	**R064072**	205.50
Rapid Trehalose Assimilation Broth	0.2mL/Tube	20 Tubes/ Pk.	**R064856**	129.70
Rapid Tributyrin	D - 0.7mL	20/Pk.	**R064854**	231.50
Rappaport-Vassiliadis Broth	10mL	100/Pk.	**R117660**	4260.00
Regan-Lowe Medium w/cephalexin	M	10/Pk.	**R01298**	97.40
Regan-Lowe Semi-Solid Transport Medium	D - 5mL	20/Pk.	**R064141**	192.30
Rice Extract Agar w/o dextrose, 0.3% Tween	G - PT	20/Pk.	**R09672**	244.00
RIOT Agar (Rice Infusion, Oxgall, Tween*	G - PT	20/Pk.	**R09680**	212.00
S				
SABHI Agar (Sabouraud Dextrose w/Brain Heart Infusion Agar)	F - slant	20/Pk.	**R08692**	181.10
SABHI Agar (Sabouraud Dextrose w/Brain Heart Infusion Agar)	M - DP	10/Pk.	**R01750**	78.40
SABHI Agar w/Blood (Sabouraud Dextrose w/Brain Heart Infusion Agar) (5% sheep blood)	M - DP	10/Pk.	**R01752**	98.30
SABHI Agar w/Chloramphenicol	F- slant	100/Pk.	**R08691**	863.00
SABHI Agar w/Chloramphenicol	M - DP	100/Pk.	**R01749**	705.50
SABHI Agar w/Chloramphenicol, Cycloheximide	F- Slant	100/Pk.	**R08697**	872.50
Sabouraud Dextrose Agar, Emmons Bactiflask	1 oz. TCF	20/Pk.	**R10270**	213.50
Sabouraud Dextrose Agar, Emmons	F - slant	20/Pk.	**R08722**	117.10

Packaging Key

Media Packaging Type	Abbreviation	Media Packaging Type	Abbreviation
13 x 100mm Tube	**A**	**Filter**	**FL**
15 x 45mm Tube	**B**	**Hungate Cap**	**HC**
15 x 90mm Tube	**C**	**Individual Wrap Plate**	**IWP**
15 x 103mm Tube	**D**	**Monoplate**	**M**
16 x 125mm Tube	**E**	**Organism**	**Org.**
20 x 113mm Tube	**F**	**Plate**	**P**
20 x 150mm Tube	**G**	**Polypropylene Bottle**	**PB**
27 x 70mm Tube	**H**	**Pour Tube**	**PT**
Ampules	**Amp.**	**Pour Tube, Deep**	**PTD**
Biplate	**BP**	**Quadplate**	**Q**
Blood Culture Bottle	**BCB**	**Rubber Stopper**	**RS**
Borosilicate Bottle	**BB**	**Serum Bottle**	**SB**
Boston Round Bottle	**BRB**	**Single Bag**	**SBG**
Bottle	**Btl.**	**Spacesaver Plate**	**SP**
Butt (10 x 103mm)	**BT**	**Thin Pour**	**TP**
Clear Square Bottle	**CSB**	**Tissue Culture Flask**	**TCF**
Double Bag	**DBG**	**Triplate**	**TRI**
Double Pour	**DP**	**Tube**	**T**
Durham Tube	**DT**	**Wide Mouth Bottle**	**WMB**
Envelope	**Env.**	**Vial**	**Vl.**

Description	Type	Qty.	Cat. No.	Price
S				
Sabouraud Dextrose Agar, Emmons	F - slant	100/Pk.	**R08720**	504.00
Sabouraud Dextrose Agar, Emmons	M - DP	10/Pk.	**R01760**	51.80
Sabouraud Dextrose Agar, Emmons	M - DP	100/Pk.	**R01763**	596.50
Sabouraud Dextrose Agar (pH 5.6)	G - slant	20/Pk.	**R09747**	212.00
Sabouraud Dextrose Agar, pH 5.6	M - DP	10/Pk.	**R01768**	47.75
Sabouraud Dextrose Agar Bactiflask (pH 5.6)	1 oz. TCF	20/Pk.	**R10268**	265.50
Sabouraud Dextrose Agar w/Chloramphenicol, pH 5.6	BB - 500mL	10/Pk.	**R112552**	693.50
Sabouraud Dextrose Agar, Emmons	D - slant	20/Pk.	**R064422**	166.40
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol	F - slant	20/Pk.	**R08726**	181.20
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol	F - slant	100/Pk.	**R08724**	780.50
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol	M - DP	10/Pk.	**R01770**	67.90
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol, Cycloheximide	F - slant	20/Pk.	**R08730**	219.50
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol, Cycloheximide	M - DP	10/Pk.	**R01771**	73.90
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol, Gentamicin	F - slant	20/Pk.	**R08742**	224.50
Sabouraud Dextrose Agar, Emmons w/Chloramphenicol, Gentamicin	M - DP	10/Pk.	**R01772**	98.20
Sabouraud Dextrose Agar, Emmons w/Cycloheximide	F - slant	20/Pk.	**R08734**	245.00
Sabouraud Dextrose Agar, Emmons w/Gentamicin	M - DP	10/Pk.	**R01776**	101.60
Sabouraud Dextrose Agar, Emmons w/Yeast Extract	M - DP	10/Pk.	**R01780**	109.70
Sabouraud Dextrose Agar, pH 5.6	BB - 200mL	10/Pk.	**R112550**	252.50
Sabouraud Dextrose Agar, pH 5.6	BB - 500mL	10/Pk.	**R112551**	294.00
Sabouraud Dextrose Agar, pH 5.6	M - DP	100/Pk.	**R01766**	712.50
Sabouraud Dextrose Broth 2%	WMB Lug-90mL	10/Pk.	**R112559**	252.00
Sabouraud Dextrose Broth 2% (pH 5.6) (Fluid Sabouraud Medium)	D - 5mL	20/Pk.	**R064412**	147.40
Sabouraud Dextrose Broth 2% (pH 5.6) (Fluid Sabouraud Medium)	D - 5mL	100/Cs.	**R064410**	616.50
Sabouraud Dextrose Broth 4% (pH 5.6)	D - 5mL	20/Pk.	**R064416**	182.50
Saline (0.85%)	D - 1mL	100/Cs.	**R064430**	445.50
Saline (0.85%)	D - 1mL	20/Pk.	**R064432**	113.50
Saline (0.85%)	D - 2mL	100/Cs.	**R064434**	510.50
Saline (0.85%)	D - 2mL	20/Pk.	**R064436**	131.50
Saline (0.85%)	D - 2.5mL	100/Cs.	**R064438**	590.00
Saline (0.85%)	D - 4mL	100/Cs.	**R064442**	522.00
Saline (0.85%)	D - 5mL	100/Cs.	**R064446**	475.00
Saline (0.85%)	D - 5mL	20/Pk.	**R064448**	121.90
Saline (0.85%)	D - 6mL	100/Cs.	**R064450**	554.50
Saline (0.85%)	E - 9.9mL	100/Pk.	**R07140**	611.50
Saline (0.85%)	E - 9.9mL	20/Pk.	**R07142**	145.60
Saline (0.85%)	F - 9mL	100/Cs.	**R118520**	620.00
Saline (0.45%)	1.8mL, 12 × 75mm	100/Cs.	**R064462**	472.00
Salmonella Shigella Agar (SS Agar)	M	10/Pk.	**R01840**	52.40
Salmonella Shigella Agar (SS Agar)	SP	15/Pk.	**R01841**	91.20
Schaedler Agar w/Blood, Hemin, Vitamin K	M	10/Pk.	**R01800**	161.70
Schaedler Broth	D - 5mL	20/Pk.	**R064482**	183.10
Schaedler Broth	D - 5mL	100/Pk.	**R064480**	785.00
Schaedler Broth 2X w/10% Fildes Enrichment	E - 10mL	20/Pk.	**R07159**	222.00

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Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
S				
Schaedler KV Agar (Kanamycin, Vancomycin) w/blood, hemin, Vitamin K	M	10/Pk.	**R01804**	159.60
Schaedler LKV Agar (Kanamycin, Vancomycin) w/laked blood, hemin, Vitamin K	M	10/Pk.	**R01806**	80.60
Selective Rapid Urea	0.5mL/Vl.	24/Pk.	**R20389**	222.00
Selenite Broth	D - 9mL	20/Pk.	**R064502**	142.80
Selenite Broth	D - 9mL	100/Pk.	**R064500**	576.50
Selenite Broth w/Cystine	E - 10mL	100/Cs.	**R07841**	836.50
Selenite Broth w/Cystine Enrichment medium	D - 9mL	100/Pk.	**R064506**	772.50
SF Broth	D - 5mL	20/Pk.	**R064532**	177.00
Signal Blood Culture System	BB	20/Pk.	**R65410**	453.00
SIM Medium (Sulfide, Indole, Motility)	D - 5mL	20/Pk.	**R064542**	145.50
SIM Medium (Sulfide, Indole, Motility)	D - 5mL	100/Pk.	**R064540**	625.50
Simmons Citrate Agar	D - slant	100/Pk.	**R060494**	608.50
Skim Milk Medium 2X	D - 5mL	20/Pk.	**R064548**	211.50
Skim Milk Medium 2X	G - 20mL	20/Pk.	**R09776**	223.50
SP4 Glucose Agar w/thallium acetate, penicillin	15 × 60mm P	10/Pk.	**R20276**	126.60
SP4 Glucose Broth w/thallium acetate, penicillin	CSB - 100mL	10/Pk.	**R112585**	96.30
SP4 Glucose Broth w/thallium acetate, penicillin	CSB - 90mL	Each	**R20057**	83.40
SP4 Glucose Broth w/thallium acetate, penicillin	D - 5mL	20/Pk.	**R20376**	260.00
Spectra UTI	M	10/Pk.	**R01818**	65.10
Staph 110 Medium	M	10/Pk.	**R01845**	78.00
Starch Agar	G - PT	20/Pk.	**R09784**	239.50
Starch Agar w/Brom Cresol Purple	M	10/Pk.	**R01850**	76.40
Starch Hydrolysis Agar	D - slant	20/Pk.	**R064588**	228.00
Starch Hydrolysis Agar	M	10/Pk.	**R01854**	91.60
Strep A Isolation Agar	M	10/Pk.	**R01856**	54.30
Strep A Isolation Agar	M	100/Pk.	**R01855**	683.50
Strep Selective Agar w/RNA, maltose, neomycin, polymyxin B	M	10/Pk.	**R01857**	56.80
Strep Selective Agar w/RNA, maltose, neomycin, polymyxin B	SP	15/Pk.	**R01867**	104.30
Strep Selective II Agar w/colistin, oxolinic acid	M	10/Pk.	**R01858**	59.70
Stuart Transport Medium	D - 9mL BT	20/Pk.	**R064622**	147.90
SXT Blood Agar w/w/sulfamethoxazole, trimethoprim	M	10/Pk.	**R01860**	56.50
T				
TAT Broth, w/Polysorbate 20; Format: Wide mouth bottle lug	WMB Lug -90mL	10/Pk.	**R112611**	181.10
TCBS Agar (Thiosulfate, Citrate, Bile Salts, Sucrose)	G - PT	20/Pk.	**R09832**	199.50
TCBS Agar (Thiosulfate, Citrate, Bile Salts, Sucrose)	M	10/Pk.	**R01865**	74.60
TCH Agar 1µg/mL	F - slant	20/Pk.	**R08812**	212.00
TCH Agar 5µg/mL	F - slant	20/Pk.	**R08816**	224.50
Tergitol 7 Agar w/TTC	M	10/Pk.	**R01875**	51.60
Tergitol 7 Agar w/TTC//Blood Agar (TSA w/5% Sheep Blood)	BP	10/Pk.	**R02144**	108.90
Tetrathionate Broth	E - 10mL	20/Pk.	**R07162**	186.10
Thayer Martin Agar Improved (Martin-Lewis) w/anisomycin, colistin, vancomycin, trimethoprim	M	10/Pk.	**R01884**	55.80

Description	Type	Qty.	Cat. No.	Price
T				
Thayer Martin Agar Improved (Martin-Lewis), w/anisomycin, colistin, vancomycin, trimethoprim	1 oz. Bottle w/CO_2	10/Pk.	**R10211**	136.00
Thayer Martin Agar Improved (Martin-Lewis), w/anisomycin, colistin, vancomycin, trimethoprim	Pill-Pocket Plate	10/Pk.	**R10325**	117.90
Thayer Martin Agar Modified w/nystatin, colistin, vancomycin, trimethoprim	M	10/Pk.	**R01880**	48.50
Thayer Martin Agar Modified w/nystatin, colistin, vancomycin, trimethoprim	M	100/Pk.	**R01882**	488.50
Thayer Martin Agar Modified w/nystatin, colistin, vancomycin, trimethoprim	SP	15/Pk.	**R01881**	82.40
Thermonuclease Agar w/Toluidine Blue	G - PT	20/Pk.	**R09884**	230.50
Thermonuclease Agar w/Toluidine Blue	M	10/Pk.	**R01895**	63.80
Thioglycollate Gelatin Medium	C - 5mL	20/Pk.	**R064668**	177.50
Thioglycollate Medium w/Dextrose w/o Indicator	D - 9mL	20/Pk.	**R064702**	114.50
Thioglycollate Medium w/Dextrose w/o Indicator	D - 9mL	100/Pk.	**R064700**	924.00
Thioglycollate Medium w/Dextrose w/o Indicator	E - 10mL	100/Pk.	**R07176**	570.00
Thioglycollate Medium w/Dextrose w/o Indicator	F - 10mL	100/Pk.	**R08850**	1112.00
Thioglycollate Medium w/Dextrose w/o Indicator	F - 18mL	100/Pk.	**R08856**	582.00
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	C - 7mL	20/Pk.	**R05153**	219.00
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	C - 7mL	100/Pk.	**R05152**	1078.00
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	D - 5mL	20/Pk.	**R064732**	142.80
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	D - 5mL	100/Pk.	**R064730**	678.00
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	D - 9mL	20/Pk.	**R064722**	122.80
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	D - 9mL	100/Pk.	**R064720**	495.00
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	E - 10mL	20/Pk.	**R07182**	137.50
Thioglycollate Medium w/Dextrose, Hemin, Vitamin K w/o Indicator	E - 10mL	100/Pk.	**R07180**	566.00
Thioglycollate Medium w/o Dextrose, w/o Indicator	D - 5mL	20/Pk.	**R064712**	135.90
Tinsdale Agar Base	G - PT	20/Pk.	**R09897**	243.50
TOC Agar (Polysorbate 80, Oxgall, Caffeic Acid)	G - PT	20/Pk.	**R09892**	205.50
Todd Hewitt Broth	D - 0.5mL	20/Pk.	**R064802**	146.80
Todd Hewitt Broth	D - 3mL	20/Pk.	**R064808**	178.80
Todd Hewitt Broth	D - 5mL	100/Pk.	**R064804**	637.00
Todd Hewitt Broth w/0.1% Polysorbate 80 (Positive Inoculum Broth)	D - 0.5mL	100/Pk.	**R14302**	229.00
Todd Hewitt Broth w/Colistin, Nalidixic Acid (LIM VBroth)	D - 3mL	100/Pk.	**R064810**	653.00
Todd Hewitt Broth w/Colistin, Nalidixic Acid (LIM Broth)	D - 3mL	20/Pk.	**R064812**	180.30
Todd Hewitt Broth w/Gentamicin, Nalidixic Acid (Trans-Vag Broth)	D - 5mL	100/Pk.	**R064840**	734.50
Todd Hewitt Broth w/Gentamicin, Nalidixic Acid (Trans-Vag Broth)	D - 5mL	20/Pk.	**R064842**	212.00
Todd Hewitt Broth w/Gentamicin, Nalidixic Acid, Blood (Trans-Vag Broth w/Blood)	D - 5mL	20/Pk.	**R064846**	225.00
Trichophyton Agar No. 1	F - slant	20/Pk.	**R08901**	197.00

Contd. on next page.

Remel™ Prepared Media, Contd.

Description	Type	Qty.	Cat. No.	Price
T				
Trichophyton Agar No. 2	F - slant	20/Pk.	**R08905**	224.00
Trichophyton Agar No. 3	F - slant	20/Pk.	**R08909**	215.50
Trichophyton Agar No. 4	F - slant	20/Pk.	**R08913**	209.00
Trichophyton Agar No. 5	F - slant	20/Pk.	**R08917**	217.50
Trichophyton Agar No. 5	G - PT	20/Pk.	**R09919**	237.00
Trichophyton Agar No. 6	F - slant	20/Pk.	**R08921**	243.00
Trichophyton Agar No. 7	F - slant	20/Pk.	**R08925**	250.50
Triple Sugar Iron Agar (TSI)	D - slant	20/Pk.	**R064852**	132.90
Triple Sugar Iron Agar (TSI)	D - slant	100/Pk.	**R064850**	549.50
Triple Sugar Iron Agar (TSI)	E - slant	20/Pk.	**R07202**	156.20
Tryptic Soy Agar	Single Bag	20/Pk.	**R111083**	255.00
Tryptic Soy Agar (TSA)	BB - 500mL	10/Pk.	**R112700**	345.50
Tryptic Soy Agar (TSA)	BRB - 100mL	10/Pk.	**R112703**	175.50
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	15 × 150mm P	10/Pk.	**R04080**	130.60
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	D - slant	20/Pk.	**R064862**	131.90
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	F - 10mL PT	100/Pk.	**R08934**	605.00
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	F - slant	20/Pk.	**R08932**	164.30
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	F - slant	100/Pk.	**R08930**	723.00
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	G - 22mL PT	20/Pk.	**R09940**	163.20
Tryptic Soy Agar (TSA) (Soybean Casein Digest Agar)	M	10/Pk.	**R01920**	44.45
Tryptic Soy Broth (TSB)	F - 15mL	20/Pk.	**R118881**	159.00
Tryptic Soy Broth Agar (TSBA)	M	10/Pk.	**R110430**	171.70
TT Broth Base (Hajna)	BB - 1000mL	4/Pk.	**R112370**	171.60
Tyrosine Agar	G - 25mL PT	20/Pk.	**R09960**	240.50
Tryptic Soy Broth (TSB)	E - 5mL	20/Pk.	**R07224**	129.50
Tryptic Soy Broth (TSB)	E - 10mL	20/Pk.	**R07228**	150.50
Tryptic Soy Broth (TSB)	SB-40mL	10/Pk.	**R112744**	299.50
Tryptic Soy Broth w/0.5% Bovine Albumin	D - 2mL	20/Pk.	**R065006**	214.50
Tryptic Soy Broth w/6.5% NaCl	D - 5mL	20/Pk.	**R065032**	133.10
Tryptic Soy Broth w/6.5% NaCl	D - 5mL	100/Cs.	**R065030**	585.00
Tryptic Soy Broth w/15% Glycerol	B - 1.5mL	100/Cs.	**R065025**	558.50
Tryptic Soy Broth w/15% Glycerol	D - 1.5mL	20/Pk.	**R065026**	161.90
Tryptic Soy Broth w/15% Glycerol	D - 1.5mL	100/Cs.	**R065024**	639.00

Description	Type	Qty.	Cat. No.	Price
U				
Uni-OF™ Glucose Tube	Constricted Tube	20/Pk.	**R7310060**	112.60
Uni-OF Lactose Tube	Constricted Tube	20/Pk.	**R7310061**	106.10
Uni-OF Maltose Tube	Constricted Tube	20/Pk.	**R7310062**	109.10
Urea Agar (Christensen's)	D - slant	100/Pk.	**R065210**	754.50
Urea Agar (Christensen's)	D - slant	20/Pk.	**R065212**	159.80
Rapid Urea Broth	V - 3mL	1/Pk.	**R20388**	9.50
Urea Broth (Stuart's)	D - 2mL	20/Pk.	**R065232**	238.50
Urea Broth For AFB	D - 1.5mL	20/Pk.	**R065222**	216.50
UVM Mod. Listeria Enrichment Broth	BB - 225mL	10/Pk.	**R112850**	253.00
V				
V Agar	M	10/Pk.	**R01950**	67.30
V Agar	M	100/Pk.	**R01960**	791.50
V Agar Selective w/colistin, nalidixic acid, nystatin	M	10/Pk.	**R01952**	105.60
V Agar//Starch Agar w/Brom Cresol Purple	BP	10/Pk.	**R02148**	139.90
Violet Red Bile Agar	BB - 200mL	10/Pk.	**R112871**	410.50
Violet Red Bile Agar w/Glucose	15 × 100mm Plate	10/Pk.	**R110097**	85.00
Vogel Johnson Agar	M	10/Pk.	**R01970**	77.60
X				
Xanthine Agar	G - 25mL PT	20/Pk.	**R09974**	235.00
XLD Agar (Xylose, Lysine, Desoxycholate)	M	10/Pk.	**R01980**	40.75
Y				
Yeast Fermentation Broth w/BTB, Galactose	D - 7mL DT	20/Pk.	**R065318**	226.50
Yeast Malt Extract Agar	F - slant	20/Pk.	**R08988**	222.00

Packaging Key

Media Packaging Type	Abbreviation	Media Packaging Type	Abbreviation
13 x 100mm Tube	A	Filter	FL
15 x 45mm Tube	B	Hungate Cap	HC
15 x 90mm Tube	C	Individual Wrap Plate	IWP
15 x 103mm Tube	D	Monoplate	M
16 x 125mm Tube	E	Organism	Org.
20 x 113mm Tube	F	Plate	P
20 x 150mm Tube	G	Polypropylene Bottle	PB
27 x 70mm Tube	H	Pour Tube	PT
Ampules	Amp.	Pour Tube, Deep	PTD
Biplate	BP	Quadplate	Q
Blood Culture Bottle	BCB	Rubber Stopper	RS
Borosilicate Bottle	BB	Serum Bottle	SB
Boston Round Bottle	BRB	Single Bag	SBG
Bottle	Btl.	Spacesaver Plate	SP
Butt (10 x 103mm)	BT	Thin Pour	TP
Clear Square Bottle	CSB	Tissue Culture Flask	TCF
Double Bag	DBG	Triplate	TRI
Double Pour	DP	Tube	T
Durham Tube	DT	Wide Mouth Bottle	WMB
Envelope	Env.	Vial	Vl.

YOUR PATHWAY TO DISCOVERY

Our Antibody Search Tool allows you to search our portfolio of over 80,000 antibodies. Searching for the right antibody is easier than ever by using the tool to narrow your search based on specific criteria below:

- Reactivity
- Host
- Label
- Classification
- Type

Visit **www.fisherantibodies.com** to start your search.

BD™ BBL™ Sterile Pack Plated Media

Plated media in gamma-irradiated packs are validated for performance and sterility according to Association for the Advancement of Medical Instrumentation (AAMI) guidelines

- Validated to 10^{-5} SAL
- Outer Tyvek™/polyethylene wrapping minimizes risk of false contamination
- Provides fiber-free bacterial barrier
- Allows for gas exchange
- Could be used by removing outer wrapping in noncritical and sterile inner wrapping in clean area
- Inner bag may be used to transport plates from critical environment

Available in many formulations and plate types

- Rodac™ (Replicate Organism Detection and Counting) for personnel and surface sampling
- Settling for active and passive air sampling
- Finger Dab™ for sampling gloved hands
- Contact for direct surface sampling

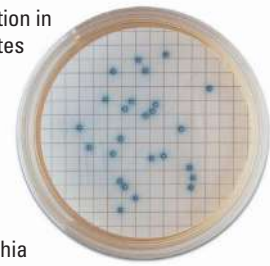
STORAGE:
Store at 2° to 8°C (36° to 46°F).

Medium	Quantity	Mfr. No.	Cat. No.	Each
Contact				
Trypticase™ Soy Agar with Lecithin and Polysorbate 80	100 Cs.	222208	**08-757-185**	623.00
	10 Pk.	221961	**B21961X**	68.40
Sabouraud Dextrose Agar	10 Pk.	221988	**L21988**	74.40
	10 Pk.	221989	**L4321989**	64.70
Rodac				
CDC anaerobic Blood Agar	10 Pk.	292229	**B4392229**	70.80
D/E neutralizing Agar	100 Cs.	222209	**08-757-186**	594.00
Sterile Rodac™, TSA With Lecithin and Polysorbate 80	100 Pk.	222207	**08-757-187**	579.00
	10 Pk.	221238	**B21238X**	67.40
Sabouraud Dextrose Agar with Lecithin and Polysorb	10 Pk.	221233	**L21233**	71.90
	10 Pk.	221235	**L21235**	31.30
Settling				
Trypticase™ Soy Agar	100 Cs.	222205	**08-757-188**	563.66
	10 Pk.	222206	**08-757-189**	364.00
	10 Pk.	221236	**B21236X**	62.60
	5 Pk.	221237	**B21237X**	40.20
Trypticase™ Soy Agar with Lecithin and Polysorbate 80	25mL	292396	**B4392396**	351.50

BD™ BBL™/Difco™ Chromogenic Media

Culture media tests water with the membrane filtration method

Detects degree of water quality deterioration in drinking distribution system and enumerates and monitors the progress in remediation. Provides precise and quantifiable results; also less time consuming and costly than other techniques.



Difco Chromogenic Media

Difco MI Agar

- Chromogenic-fluorogenic medium for detecting total coliforms and Escherichia coli in 24 hours or less
- Use for ambient and potable water, treatment plant effluents, and beverage and pharmaceutical manufacturing
- Under ambient light, E. coli exhibits a bluish-gray appearance; under long-wave UV light, it displays a blue-green fluorescence
- Coliform are cream under ambient light, and display blue-white fluorescence under long-wave UV light
- Conforms to EPA Method 1604 for monitoring drinking water under the Total Coliform Rule, and source water under the Surface Water Treatment Rule

Difco Modified mTEC Agar

- Use for testing and monitoring thermotolerant E. coli in fresh and recreational waters
- Any colonies present will exhibit a red or magenta color within 24 hours of the test
- Conforms to EPA Method 1603

Difco mEI Agar

- Tests for Enterococci as an indication of fecal pollution, and presence of enteric pathogens in fresh and salt waters
- Any colonies present will exhibit a blue halo within 24 hours of the test
- Conforms to EPA Method 1600

ORDERING INFORMATION:
Available dehydrated or in prepared 15 × 60mm plates.

STORAGE:
Plates must be stored at 2° to 8°C (36° to 46°F). Store mEI Agar at 5° to 25°C (41° to 77°F) up to one year.

Medium	Quantity	Mfr. No.	Cat. No.	Each
MI Agar	500g	14883	**B14883**	1931.00
	Pack of 100 plates	214985	**B14985**	451.80
Modified mTEC Agar	100g	14884	**B14884**	460.00
	500g	14880	**B14880**	2060.00
	Pack of 100 plates	215046	**B15046**	653.00
mEI Agar	100g	14885	**B14885**	320.23
	500g	14881	**B14881**	2130.00
	Pack of 100 plates	215047	**B15047**	629.00

BD™ Sterility Bottles

Glass sterility bottles available with a variety of media

- Transparent labels for easy viewing and identification of medium
- Labels are laminated acetate to resist alcohol or chlorine treatment for cleanroom use
- Prepared bottles for sterility testing and microbial limits

Wide-Mouth Bottles

- Openings are 48mm in diameter to accommodate bulky samples

ORDERING INFORMATION:
Supplied in packs of 10 bottles

INCLUDES:
Certificate of Analysis

COMPLIANCE:
Conform to harmonized USP requirements.

DF9066-78-0, DF9082-74

Medium	Cap Type	Volume	Mfr. No.	Cat. No.	Pack of 10
Fluid A (0.1% Peptic Digest of Animal Tissue)	Septum w/Flip Cap	100mL	290821	**DF9082-74**	67.00
	Septum/Screw Cap	300mL	290652	**DF9065-78-0**	169.80
Fluid D (0.1% Peptic Digest of Animal Tissue and 0.1% Polysorbate 80)	Septum w/Flip Cap	100mL	290831	**DF9083-74**	61.10
	Septum/Screw Cap	300mL	290662	**DF9066-78-0**	166.80
Fluid Thioglycollate Medium	Septum w/Flip Cap	100mL	299108	**B99108**	113.90
	Septum w/Large Screw Cap	100mL	299417	**BB99417**	236.00
	Septum w/Large Screw Cap	500mL	299417	**L99112**	271.00
Potato Dextrose Agar	Septum w/Large Screw Cap	500mL	299906	**B299906**	229.00
Trypticase™ Soy Broth	Septum w/Flip Cap	100mL	299107	**B99107**	120.70
	Septum w/Large Screw Cap	500mL	299107	**B99113**	271.00
R2A Agar	Septum w/Large Screw Cap	500mL	299436	**222-273-15**	271.00
Standard Methods Agar	Screw Cap	200mL	299094	**BB99094**	169.70
	Septum w/Large Screw Cap	500mL	299094	**B99102**	312.00

Additives/Supplements

Oxoid™ Selective Supplements

Media supplements for isolation and differentiation of specific microorganisms

STORAGE:
Store supplements and reagents away from light in temperatures from 2° to 8°C (36° to 46°F).

Description	Yield	Quantity	Cat. No.	Each
B				
Bacillus Cereus	For 500mL medium	10 vials	**OXSR0099E**	232.50
Bile Salts	For 500mL medium	10 vials	**OXLP0055J**	246.50
Bolton Broth	For 500mL medium	10 vials	**OXSR0183E**	232.50
Modified Bolton Broth	For 500mL medium	10 vials	**OXSR0208E**	246.50
Brilliance Bacillus Cereus	For 500mL medium	10 vials	**R663230**	142.10
Modified Brucella	For 500mL medium	10 vials	**OXSR0209E**	156.20
Brucella	For 500mL medium	10 vials	**OXSR0083A**	152.00
Burkholderia cepacia	For 500mL medium	10 vials	**OXSR0189E**	381.50
C				
Campylobacter (Karmali)	For 500mL medium	10 vials	**OXSR0167E**	192.10
Campylobacter (Skirrow)	For 500mL medium	10 vials	**OXSR0069E**	220.50
Preston Campylobacter	For 500mL medium	10 vials	**OXSR0117E**	160.70
CAT	For 500mL medium	10 vials	**OXSR0174E**	215.50
CCDA	For 500mL medium	10 vials	**OXSR0155E**	238.00
CDMN	For 500mL medium	10 vials	**OXSR0173E**	292.50
C-F-C	For 500mL medium	10 vials	**OXSR0103E**	185.10
Chloramphenical	For 2L medium	10 vials	**OXSR0078H**	274.00
Clostridium difficile	For 500mL medium	10 vials	**OXSR0096E**	274.00
Membrane *Clostridium perfringens* (m-CP)	For 500mL medium	10 vials	**OXSR0188E**	263.00
C-T	For 500mL medium	10 vials	**OXSR0172E**	276.50
	For 2L medium	10 vials	**OXSR0172H**	622.00
F				
Fraser	For 500mL medium	10 vials	**OXSR0156E**	149.10

Description	Yield	Quantity	Cat. No.	Each
H				
Helicobacter pylori (Dent)	For 500mL medium	10 vials	**OXSR0147E**	137.20
L				
Legionella BCYE without L-cysteine	For 100mL medium	10 vials	**OXSR0175A**	216.50
Legionella BCYE	For 500mL medium	10 vials	**OXSR0110C**	670.00
Legionella BCYE	For 100mL medium	10 vials	**OXSR0110A**	195.70
Legionella BMPA-alpha	For 500mL medium	10 vials	**OXSR0111B**	958.50
Legionella BMPA-alpha	For 100mL medium	10 vials	**OXSR0111E**	232.50
Legionella MWY	For 500mL medium	10 vials	**OXSR0118B**	806.50
Listeria Selective (Modified)	For 2.25L medium	10 vials	**OXSR0149A**	478.00
Listeria Selective	For 500mL medium	10 vials	**OXSR0141E**	144.00
Modified Listeria (Oxford)	For 500mL medium	10 vials	**OXSR0206E**	207.50
Listeria (Oxford)	For 500mL medium	10 vials	**OXSR0140E**	210.50
M				
Membrane Clostridium Perfringens	For 500mL medium	10 vials	**OXSR0188E**	263.00
MUG	N/A†	10 vials	**OXBR0071E**	245.00
Mycoplasma G	For 80mL medium	10 vials	**OXSR0059C**	225.50
O				
OGYE	For 500mL medium	10 vials	**OXSR0073A**	142.50
ORSAB	For 500ml medium	10 vials	**OXSR0195E**	186.00
P				
PALCAM	For 500mL medium	10 vials	**OXSR0150E**	167.90
Perfringens (SFP)	For 500mL medium	10 vials	**OXSR0093E**	411.00
Perfringens (TSC)	For 500mL medium	10 vials	**OXSR0088E**	143.60
Phosphate Buffered Saline (Dulbecco A)	Each tab for 100mL	100 tabs	**OXBR0014G**	60.20
Potassium Tellurite 3.5%	N/A†	10 × 2mL	**OXSR0030J**	54.00
Preston Campylobacter	For 500mL medium	10 vials	**OXSR0117E**	160.70
Pseudomonas CFC	For 500mL medium	10 vials	**OXSR0103E**	185.10
R				
Modified Semi-solid Rappaport Vassiliadis	For 500mL medium	10 vials	**OXSR0161E**	145.00

†Yield will be dependent upon formulation; follow the guidelines for your specific product.

Contd. on next page.

Oxoid™ Selective Supplements, Contd.

Description	Yield	Quantity	Cat. No.	Each
S				
Staph/Strep	For 500mL medium	10 vials	**OXSR0070E**	179.70
T				
TTC Solution (0.125%)	For 100mL medium	10 × 2mL	**OXSR0148A**	92.30
U				
Urea 40% solution	For 100mL medium	10 × 5mL	**OXSR0020K**	56.20
V				
Vitox plus diluent	For 500mL medium	2 × 5 vials	**OXSR0090A**	411.00
Y				
Yersinia Selective	For 500mL medium	10 vials	**OXSR0109E**	147.50

Remel™ Dehydrated Media Additives/Supplements

Supplement media to support, differentiate microbial growth

All lots are tested using ATCC™ quality control organisms

ORDERING INFORMATION:
Industrial Reference: COMPF.

R45000 Series

Description	Type	Qty.	Cat. No.	Price
ADC Enrichment	10mL	10/Pk.	**R450591**	155.70
ADC Enrichment	20mL	10/Pk.	**R450592**	236.50
CN Selective Supplement (Cefsulodin, Novobiocin) Lyophilized	1mL	10/Pk.	**R45050**	69.30
Egg Yolk Suspension 50%	100mL	10/Pk.	**R450291**	539.00
Egg Yolk Suspension 50%	100mL	Each	**R450290**	76.50
Egg Yolk Tellurite	100mL	10/Pk.	**R450331**	414.00
Egg Yolk Tellurite	100mL	Each	**R450330**	65.50
Fildes Enrichment For use with BHI Broth Base	100mL	Bottle	**R45039**	190.60
Fildes Enrichment For use with BHI Broth Base	5mL	20/Pk.	**R45037**	191.40
Fraser Broth Additive For use w/ Fraser Broth Base	10mL	10/Pk.	**R450361**	220.00
GCHI Enrichment (Lyophilized) w/Rehydrating Solution For use w/GC Agar Base	10mL	5/Pk.	**R450411**	192.20
Iodine for Tetrathionate	500mL/Btl.	500mL	**R114351**	306.00
Iodine for Tetrathionate	100mL/Btl.	100mL	**R114350**	114.90
Moxalactam Selective Supplement Lyophilized For use w/Modified Oxford Base	10mL	10/Pk.	**R450551**	247.00
OADC Enrichment For use in Middlebrook Media	100mL	10/Pk.	**R450604**	1115.00
OADC Enrichment	100mL	Each	**R450603**	122.30
OADC Enrichment	500mL	Each	**R450605**	313.50
Tergitol 4 For use w/ XLT4 Agar Base	100mL	Each	**R450880**	56.50
Tetrathionate Broth Base for use with iodine for the recovery of Salmonella spp.	500g	500g	**R454822**	92.10
	2.5g	Each	**R454824**	418.50
Tinsdale Enrichment For use w/ Tinsdale Agar Base R09897	3.3mL	10/Pk.	**R45045**	68.90
VCNT Selective Supplement Lyophilized (Vancomycin, Colistin, Nystatin, Trimethoprim) For use w/ GC Agar Base	10mL	10/Pk.	**R450921**	202.50
Vitamin K, Hemin Solution For use in anaerobic media	10mL	20/Pk.	**R450951**	284.50

BD™ BBL™/Difco™ Media Additives/ Ingredients/Reagents

STORAGE:
Refrigerate as detailed on label.

Description	Size	Mfr. No.	Cat. No.	Price
A				
Agar (Bacto)	100g	214050	**DF0140-15-4**	100.60
	2kg	214030	**DF0140-07-4**	849.05
	10kg	214040	**DF0140-08-3**	4270.00
Agar, Grade A (BBL)	454g	212304	**B12304**	276.50
Agar, Granulated (Difco)	500g	214530	**DF0145-17-0**	131.95
	2kg	214510	**DF0145-07-0**	527.00
	10kg	214520	**DF0145-08-0**	2640.00
Agar Noble (Difco)	100g	214220	**DF0142-15-2**	173.30
	500g	214230	**DF0142-17-0**	384.00
Agar, Select (BBL)	5 lb.	299341	**B99341**	1111.00
Agar, Technical (Difco)	500g	281230	**DF0812-17-9**	107.40
	2kg	281210	**DF0812-07-1**	418.00
Antimicrobic Vial K Kanamycin (Difco)	10mL	233391	**DF3339-60-3**	179.30
Antimicrobic Vial P Polymyxin B (Difco)	10mL	232681	**DF3268-60-8**	123.30
B				
Beef Extract Powder (BBL)	500g	212303	**B12303**	214.50
Beef Extract, Desiccated (Bacto)	500g	211520	**DF0115-17-3**	159.00
Bovine Albumin 0.2% in 0.85% Saline (BBL)	10mL	211968	**B11968**	Pk. of 10/46.55
C				
Casamino Acids, Acid Hydrolized Casein (Bacto)	500g	223050	**DF0230-17-3**	305.00
D				
Dextrose Glucose (Difco)	500g	215530	**DF0155-17-4**	38.95
Dextrose Glucose (Difco)	2kg	215510	**DF0155-07-6**	104.50
E				
EY Tellurite Enrichment (Difco)	100mL	277910	**DF0779-73-1**	Pk. of 6/252.74
Egg Yolk Enrichment 50% (Difco)	10mL	233471	**DF3347-61-2**	181.20
Egg Yolk Enrichment 50% (Difco)	100mL	233472	**DF3347-73-8**	Pk. of 6/319.50
Egg Yolk Tellurite Solution (BBL)	100mL	212357	**B12357**	Pk. of 6/210.00
F				
Middlebrook OADC Enrichment (BBL)	100mL	212240	**L12240**	722.18
Fraser Broth Supplement	10mL	211742	**DF0211-60-2**	Pk. of 6/87.90
G				
D-Galactose (Difco)	500g	0163-17	**DF0163-17-4**	125.75
Gelatin (Difco)	500g	0143-17	**DF0143-17-9**	72.30
Glycerol (Difco)	500g	228220	**DF0282-17-0**	109.00
I				
IsoVitaleX™ Enrichment, Lyophilized (BBL)	10mL, w/10mL diluent	4311876	**B11876**	Pk. of 5/145.05
L				
Lactose Monohydrate (Difco)	500g	215620	**DF0156-17-3**	38.95
Leptospira Enrichment EMJH (Difco)	100mL	0795-73	**DF0795-73-1**	Pk. of 6/762.50
M				
Middlebrook ADC Enrichment (BBL)	20mL	211887	**B11887**	165.44
Middlebrook ADC Enrichment (BBL)	100mL	212352	**B12352**	435.43

Contd. on next page.

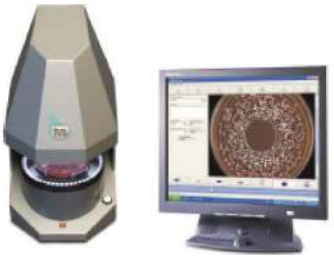
BD™ BBL™/Difco™ Media Additives/Ingredients/Reagents, Contd.

Description	Size	Mfr. No.	Cat. No.	Price
M				
Middlebrook OADC Enrichment (BBL)	500mL	212351	**B12351**	229.40
Middlebrook OADC Enrichment (BBL)	20mL	211886	**B11886**	Pk. of 10/164.43
Modified Oxford Antimicrobic Supplement (Difco)	10mL	211763	**DF0218-60-5**	Pk. of 6/136.80
Moxalactam, Listeria Selective Supplement (BBL)	2mL	212402	**B12402**	Pk. of 10/208.00
N				
Neopeptone (Bacto)	500g	211681	**DF0119-17-9**	310.00
Neutralizing Buffer (Difco)	100g	236210	**DF0362-15-5**	46.70
Novobiocin Antimicrobic Supplement (Difco)	10mL	231971	**DF3197-60**	Pk. of 6/104.50
O				
Oxgall (Difco)	500g	212820	**DF0128-17-8**	300.00
P				
Penase, Penicillinase Concentrate (10,000,000 units/ 20,000 I.U.) (Difco)	100mL	234630	**DF0346-73-5**	Pk. of 6/756.00
Penicillinase Concentrate, 10,000,000 units/mL (BBL™)	100mL	211899	**B11899**	124.10
Peptone (Bacto), Fine Powder	500g	211677	**DF0118-17-0**	114.80
	2kg	211820	**DF0118-07-2**	450.00
	10kg	211830	**DF0118-08-1**	2220.00
Phosphate Buffered Saline, pH 7.2 FA Buffer, Dried (Difco)	10g	223143	**DF2314-33-8**	Pk. of 6/59.10
	100g	223142	**DF2314-15-0**	37.95
Phytone Peptone UF (Difco)	500g	210931	**DF2109-31**	158.28
Proteose Peptone (Bacto)	500g	211684	**DF0120-17-6**	233.00
	10kg	212010	**D0120-08**	4530.00
Proteose Peptone No. 2 (Bacto)	500g	212120	**DF0121-17-5**	393.50
Proteose Peptone No. 3 (Bacto)	500g	211693	**DF0122-17-4**	255.00
R				
Raffinose (Difco)	100g	217410	**DF0174-15-3**	178.60
Rosolic Acid, use with mFC Broth Base and mFC Agar (Difco)	1g	232281	**DF3228-09-1**	Pk. of 6/117.51
S				
SBG Sulfa Enrichment (Difco)	500g	271510	**DF0715-17-7**	358.50
Salicin (Difco)	100g	217720	**DF0177-15-0**	547.50
Skim Milk (Difco)	500g	232100	**DF0032-17-3**	34.90
Sodium Thioglycollate (BBL)	100g	212081	**B12081**	136.20
Soluble Starch (Difco)	500g	217820	**DF0178-17-7**	60.70
Soytone (Bacto)	500g	243620	**DF0436-17-5**	99.50
Supplement C (Difco)	5mL	252710	**DF0527-57-6**	Pk. of 6/226.00
T				
Trypsin 1:250 (Difco)	100g	215240	**DF0152-15-9**	180.00
Trypticase™ Peptone (BBL)	454g	4311921	**B11921**	131.50
	5 lb.	4311922	**B11922**	593.00
Tryptone (Bacto™)	500g	211705	**DF0123-17-3**	Pk. of 6/84.50
	2kg	211699	**DF0123-07-5**	471.00
	10kg	211701	**DF0123-08-4**	2110.00
Tryptose (Bacto)	500g	211713	**DF0124-17-2**	224.00
X				
XLT4 Agar Supplement (Difco)	100mL	235310	**DF0353-72-6**	43.65
Y				
Yeast Extract (Bacto)	500g	212750	**DF0127-17-9**	125.40
	2kg	212720	**DF0127-07-1**	426.00
Yeast Extract (Bacto)	10kg	212730	**DF0127-08-0**	2060.00
Yeast Extract (BBL)	25 lb.	211931	**B11931**	3150.00
Yeast Extract, LD (Bacto)	500g	210933	**DF2109-33**	146.10
Yeast Extract, Technical (Bacto)	500g	288620	**DF0886-17-0**	60.10
	10kg	288610	**DF0886-08-1**	1084.00

Colony Counters

Neutec™ Flash and Grow™ Automatic Colony Counter

Modular instrument can be upgraded at any time to fit the level of automation, security and features required



14-910-311 (monitor sold sep.)

Combines sophisticated image processing and analysis with an innovative camera and light source to provide fast, accurate counts of bacterial and mammalian colonies for a wide range of applications.
Available in several configurations to meet specific applications.

- Automatic counting of pour, spread and spiral plates; filters, 3M™ Petrifilm™ with a single button in 1 sec.
- Small footprint
- Advanced colony separation and classification technique options
- Data transfer to MS Excel, MS Access and Oracle
- LED lighting ensures optimum contrast between colonies and substrate
- High resolution digital camera relays a live image of the sample to the computer screen
- Designed to comply with GLP and FDA 21 CFR Part 11
- Robotic-capable when connected to plate handler (contact customer service for more information).

Advanced module

- Provides customization of colony discrimination to cope with particles and to guarantee accurate counts based on size, sensitivity, shape and color
- Recommended upgrade for labs involved in a repetitive activity with a need for pre-defined programs

Zone sizing

- Identifies antibiotic disks and zone size around each disk, recording the correspondent diameter
- Reads up to eight disk plates in seconds, achieving throughputs of hundreds of plates in an hour
- Requires upgrade to Advanced module

APPLICATIONS:
Drug development and production; Food and milk testing, Environmental monitoring and public health

ORDERING INFORMATION:
W × D × H: 7 × 9.25 × 14" (17 × 26 × 23cm).

Description	Mfr. No.	Cat. No.	Each
Basic	6010	**14-910-311**	11,160.00
Advanced	6011	**14-910-312**	6650.00

Neutec™ Eddy Jet™ 2 Spiral Plating System

Widest range of spiral distributions

Sterile gamma-irradiated disposable PP micro-syringe for each new sample eliminates cross contamination and ensures true sampling sterility

- No bleach or vacuum pump required
- Plates processed in under 30 seconds
- User–friendly software interface with color touch panel
- Ethernet, 2 × USB ports, and 2 × RS-232 ports
- Can export data to LIMS
- Store up to 22 different spiral distributions

INCLUDES:
1000 syringes and
1000 sample beakers.
Both gamma-irradiated.

14-910-397

Specifications	
Reproducibility	>99%
Petri plate diameter	100 and 150mm
Minimum step volume	<10µL
Maximum pipeted volume	100µL
Dimensions	W × H × D: 20.3 × 16.5 × 19.7 in. (51.5 × 42 × 50 cm)
Weight	44 lbs. (20kg)

Description	Mfr. No.	Cat. No.	Each
Spiral plating system	3700	**14-910-397**	24,350.00

Neutec™ Proficlave PC10 and PC20 Media Preparator

Fully automated bench top agar/media preparator for fast processing of up to 16L of media in one hour

Features enhanced programming capabilities, operating parameter printout, external control functions, best stirring control and full metal housing. Maintains the agar in any stage of the single or double cycle process at its temperature for hours.

- Stores up to 20 user-defined programs for 3 different functional modes
- Water jacket design enables even heating within the vessel
- Atmospheric pressure measure and boiling point correction for reliable sterilization
- Fully-controlled stirrer with variable speeds and enhanced magnetic coupling without seals or shafts
- PT100 controlled temperature probe for agar and surrounding water jacket
- No bolts or tools required; multiple purpose (media sterilizer, bench top autoclave and stable water bath)

14-910-317

Multilingual software

- Mechanical pressure gauge operates independently of power supply
- Includes pressure sensor and valve with safety thermostat
- Program data, parameters and operating status displayed via LED backlit graphic display
- Timer function

PC10 Media Preparator

- Prepares agar from 0.5 up to 9 liters
- Cycle Speed: 60 min. from start to finish
- D × W × H: 565 × 535 × 500mm

PC20 Media Preparator

- Prepares agar from 0.5 up to 16 liters
- Cycle Speed: 85 min. from start to finish
- D × W × H: 565 × 535 × 580mm

INCLUDES:
Stainless steel cuvet, built-in pressure pump against flash boiling, extra-strong magnetic stirrer, sterile filter, thermal printer

CERTIFICATIONS:
CE marked

Specifications	
Ambient Temperature	+5° to 40°C
Max. Dispensing Time	300 min.
Sterilization Temperature	70 to 122°C
Sterilization Time	1 to 120 min.
Stirrer Speed	20 to 200rpm
Watts	3500W

Description	For	D × W × H	Cycle Speed	Mfr. No.	Cat. No.	Each
Proficalve PC 10	0.5 up to 9L media preparation	565 × 535 × 500mm	60 min.	BT600003	**14-910-317**	34,000.00
Proficalve PC 20	0.5 up to 16L media preparation	565 × 535 × 580mm	85 min.	BT620003	**14-910-318**	38,650.00

Neutec™ Petriswiss™ PS 20 Automated Petri Dish Filling System

Fills 20 dishes directly in the PetriRack™ — no manual stacking required!

- Compact, variable filling unit
- Ideal for production of small to medium special-purpose agar batches
- 20 agar plates are filled and stacked within 2 minutes
- Intuitive software is accessible via touchscreen
- Accommodates twenty 84 to 96mm dishes
- Utilizes beveled edge/automation plates
- Convenient PetriRack stores dishes for transport, refrigeration, incubation or autoclaving

INCLUDES:
PetriRack, feed rack, power cord (U.S.)

14-910-319

Model	Mfr. No.	Cat. No.	Each
Petri Swiss PS 20	BT800000	**14-910-319**	19,450.00

Gas Generating Systems

BD™ Diagnostic Systems GasPak™ 100 Systems

Vented and non-vented models

Vented GasPak 100 System (11-814-22) and Nonvented GasPak 150 System (11-816) with 11-816-15 and B71040 Gas Generator Envelopes

- Provide all the components necessary to produce anaerobic, microaerophilic or CO_2-enriched aerobic atmospheres
- Hold twelve 100 × 15mm Petri dishes or 13 culture tubes
- Both vented and non-vented models are available to meet a wide variety of needs
- Non vented model for anaerobic procedures
- Vented model for evacuation-replacement systems that use tank gases

INCLUDES:
5 O.D. × 9"H (13 × 23cm) polycarbonate jar; lid with O-ring gasket (vented or non-vented, depending on model); clamp/thumbscrew assembly; catalyst reaction chamber; two catalyst charges; autoclavable, stainless-steel Petri dish rack with clips; culture tube holder. Vented model also supplied with rubber hose and tubing clamp.

REQUIRES:
Non vented model (and vented model if tank system not used) requires disposable gas generator envelope.

Model	Mfr. No.	Cat. No.	Each
Vented	260627	**11-814-22**	962.50
Nonvented	260626	**11-814-21**	692.00

ACCESSORIES

BD™ Diagnostic Systems GasPak™ 100 Replacement Parts and Accessories

Description	Mfr. No.	Cat. No.	Each
Lid with O-ring Gasket	260637	**L-60637**	363.00
Lid	260411	**11-814-25**	485.00

BD™ Diagnostic Systems GasPak™ 150 Systems

Non-vented model

Provide all the components necessary to produce anaerobic, microaerophilic or CO_2-enriched aerobic atmospheres

- Hold thirty-six 100 × 15mm Petri dishes, twelve 150 × 15mm Petri dishes or 13 culture tubes
- Non-vented model for anaerobic procedures

Vented GasPak 100 System (11-814-22) and Nonvented GasPak 150 System (11-816) with 11-816-15 and B71040 Gas Generator Envelopes

INCLUDES:
10.5 O.D. × 11"H (27 × 28cm) polycarbonate jar; lid with O-ring gasket (vented or nonvented depending on model); clamp and thumbscrew assembly; three catalyst reaction chambers; 10 catalyst charges; autoclavable, stainless-steel Petri dish rack with clips; and culture tube holder.

REQUIRES:
Disposable gas generator envelope.

Model	Mfr. No.	Cat. No.	Each
Non-vented	260628	**11-816**	1063.00

ACCESSORIES

BD™ Diagnostic Systems GasPak™ 150 Replacement Parts and Accessories

L-60608

Description	Mfr. No.	Cat. No.	Each
Lid Assembly	260610	**11-816-7**	715.00

BD™ Diagnostic Systems GasPak™ Supplies

Supplies and accessories for use with BD™ Diagnostic Systems GasPak™ Gas Generating products

14-910 Series

Description	Mfr. No.	Cat. No.	Per Pack
Catalyst Replacement Charges	270303	**11-814-30**	172.70
CO_2 Indicator Strips	271055	**B-4371055**	85.30
Dry Anaerobic Indicator Strips	271051	**B-71051**	124.40

Microbiology Equipment - Media Prep

Argos Technologies Nova Microcinerator

Burner assembly can be adjusted to five different positions for improved user comfort

- Unit sterilizes metal inoculating loops or needles in five to seven seconds, after reaching optimum sterilization temperature of 815°C (1500°F)
- Infrared heat inside a ceramic tube eliminates the need for dangerous gases and flames, as well as the aerosaling of microorganisms
- Stainless-steel cowl protects the heating element
- Suction cup feet secure the base from moving or tipping

CERTIFICATIONS:
UL listed, CSA approved, CE approved.

03-391-190

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V	S3011	**03-391-190**	492.00

Quality Control

Thermo Scientific™ Remel™ Culti-Loop™ Set rapID™ Sets

Set of quality control organisms supplied in Culti-Loop format

Culti-Loops are ready to use, disposable inoculating loops containing stabilized, preserved, viable microorganisms. The loop may be dissolved in liquid medium, Culti-Loop Aerobic Set Rehydration Fluid, Part No. R4631000 or streaked directly onto an appropriate media. Culti-Loops are recommended for use in performance testing of media, stains, reagents and identification kits and for the evaluation of bacteriological procedures. Individually sealed in a foil pouch and packaged five loops per package.

NF PLUS QC includes:

- Acinetobacter baumannii ATCC® 19606™†
- Aeromonas hydrophila ATCC® 35654™†
- Elizabethkingia meningoseptica ATCC® 13253™†
- Oligella ureolytica ATCC® 43534™†

Yeast PLUS includes:

- Candida albicans ATCC® 14053™†
- Candida glabrata ATCC® 2001™†
- Candida kefyr ATCC® 2512™†
- Cryptococcus laurentii ATCC® 66036™†
- Yarrowia lipolytica ATCC® 9773™†

NH QC includes:

- Aggregatibacteraphrophilus ATCC® 49146™†
- Haemophilus influenzae Type a ATCC® 9006™†
- Moraxella catarrhalis ATCC® 8176™†
- Oligella urethralis ATCC® 17960™†

CERTIFICATIONS: Culti-Loops are CE marked.

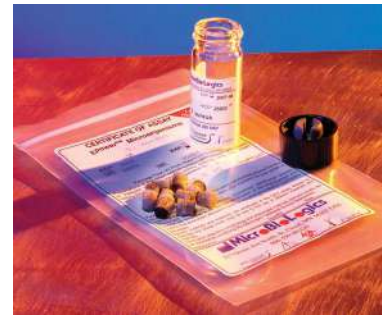
Description	Microorganism	Cat. No.	Each
RapID™ NF PLUS QC Set/4	*Acinetobacter baumannii ATCC® 19606™†* *Aeromonas hydrophila ATCC® 35654™†* *Elizabethkingia meningoseptica ATCC® 13253™†* *Oligella ureolytica ATCC® 43534™†*	**R4653054**	609.00
RapID YEAST PLUS QC Set/5	*Candida albicans ATCC® 14053™†* *Candida glabrata ATCC® 2001™†* *Candida kefyr ATCC® 2512™†* *Cryptococcus laurentii ATCC® 66036™†* *Yarrowia lipolytica ATCC® 9773™†*	**R4653060**	997.50
RapID™ NH QC Set/4	*Aggregatibactera phrophilus ATCC® 49146™†* *Haemophilus influenzae type A ATCC® 9006™†* *Moraxella catarrhalis ATCC® 8176™†* *Oligella urethralis ATCC® 17960™†*	**R4653051**	619.00

Microbiologics™ Epower™ Microorganisms

Lyophilized pellets add convenience to special projects and internal proficiency plans

Microorganism preparations manufactured at a predetermined concentration for versatile laboratory testing requirements.

- Process controls from one hundred to over a billion CFU/preparation
- Shelf life of 10-20 months
- Traceable to reference cultures



ORDERING INFORMATION:
Available in vials containing 10 lyophilized pellets, with a range of concentration from 102 to 109 per pellet

STORAGE: Shelf life of 10 to 20 months

INCLUDES: Product warranty and peel-off certificate of assay

Microorganism	ATCC™ No.	Mfr. No.	Cat. No.	Each
Aspergillus brasiliensis	16404™†	0392E6	**23-003-3397**	234.00
Aspergillus brasiliensis	16404™†	0392E3	**23-003-5012**	234.00
Bacillus subtilis	6633™†	0486E6	**23-004-832**	234.00
Candida albicans	10231™†	0443E7	**23-004-833**	234.00
Candida Albicans	10231™†	0443E3	**23-004-823**	234.00
Enterobacter aerogenes	13048™†	0306E3	**23-004-527**	234.00
Escherichia coli	8739™†	0483E3	**23-003-5004**	234.00
Escherichia coli	25922™†	0335E3	**23-003-5008**	234.00
Escherichia coli	8739™†	0483E7	**23-004-834**	234.00
Escherichia coli	51813™†	0791E4	**23-003-3480**	234.00
Lactobacillus fermentum	4338™†	0813E3	**23-003-5025**	234.00
Staphylococcus aureus	25923™†	0360E4	**23-003-3382**	234.00
Staphylococcus aureus, E7	6538™†	0485E7	**23-004-835**	234.00
Staphylococcus aureus	6538™†	0485E3	**23-003-5016**	234.00

†The ATCC Licensed Derivative Emblem, the ATCC Licensed Derivative word mark and the ATCC catalog marks are trademarks of ATCC. MicroBioLogics Inc. is licensed to use these trademarks and to sell products derived from ATCC cultures.

Microbiologics™ EZ-CFU™ One-Step Microorganism Preparations

Lyophilized microorganism preparations deliver less than 100CFU per 0.1mL of hydrated suspension — no dilutions are required

EZ-CFU One-Step preparations are designed to provide the required microorganism challenge concentrations for tests such as Growth Promotion Tests, Microbial Limits Tests and Microbial Enumeration Tests. These ready-to-use, dependable and cost-effective enumerated microorganism preparations allow laboratories to conveniently and confidently conquer a variety of mandated Pharmacopoeial challenges.

EZ-CFU Microorganisms

- Up to 19 tests per 2mL aliquot or 190 total tests per kit can be completed
- Produces a durable, non foaming suspension that is ready to be added to the challenge material immediately following the hydration step (30 minutes)
- For added convenience, a peel-off Certificate of Assay is included for quality control documentation
- Traceable to reference cultures

ORDERING INFORMATION:
Supplied as two vials of a single assayed microorganism (10 lyophilized pellets in each vial) and 10 vials of hydrating fluid (2.0mL in each vial).

STORAGE:
Shelf life of 6 to 24 months when refrigerated

INCLUDES:
Product warranty and a peel-off Certificate of Assay

Description	ATCC™ No.	Mfr. No.	Cat. No.	Pack of
Aspergillus brasiliensis	16404™†	0392Z	**23-004-841**	20/399.28
Bacillus subtilis	10876™†	0998Z	**23-004-525**	20/401.00
Bacillus subtilis subsp. spizizenii	6633™†	0486Z	**23-001-898**	10/442.00
Burkholderia cepacia	25416™†	0488Z	**23-004-843**	20/401.00
Candida albicans	10231™†	0443Z	**23-001-899**	10/442.00
Clostridium sporogenes	11437™†	0487Z	**23-001-900**	10/442.00
Escherichia coli	8739™†	0483Z	**23-001-902**	10/442.00
Escherichia coli	NCIMB 8545	0581Z	**23-015-328**	10/442.00
Pseudomonas aeruginosa	9027™†	0484Z	**23-001-903**	10/442.00
Salmonella enterica subsp. enterica serovar Typhimurium	14028™†	0363Z	**23-003-836**	20/407.00
Staphylococcus aureus subsp. aureus	6538P™†	0827Z	**23-004-524**	20/397.50
Staphylococcus aureus subsp. aureus	6538™†	0485Z	**23-001-904**	10/442.00

†The ATCC Licensed Derivative Emblem, the ATCC Licensed Derivative word mark and the ATCC catalog marks are trademarks of ATCC. MicroBioLogics Inc. is licensed to use these trademarks and to sell products derived from ATCC cultures.

Microbiologics™ EZ-PEC™ Microorganism Preparations

Add convenience to pharmaceutical and cosmetic testing labs needing to meet antimicrobial effectiveness or preservative efficacy testing

Predetermined mean assay value results in a final challenge concentration of 100,000 to 1,000,000CFU/1.0mL of product tested

- Enumerated lyophilized microorganism preparations are designed to provide the required microorganism challenge concentrations for Antimicrobial Effectiveness and Preservative Efficacy Tests
- Traceable to reference cultures

ORDERING INFORMATION:
Each kit contains 20 lyophilized pellets of a single enumerated strain plus ten vials of hydrating fluid (2mL each).

STORAGE:
Shelf life of 6 to 24 months

INCLUDES:
Product warranty and peel-off Certificate of Assay

Description	ATCC™ No.	Mfr. No.	Cat. No.	Price
Candida albicans	10231™†	0443PEC	**23-002-628**	596.00
Escherichia coli	8739™†	0483PEC	**23-002-640**	596.00
Pseudomonas aeruginosa	9027™†	0484PEC	**23-002-641**	596.00
Staphylococcus aureus	6538™†	0485PEC	**23-002-642**	596.00

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Fisherbrand®
QUALITY.
RELIABILITY.
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The Fisherbrand portfolio is home to 10,000+ products guaranteed to fit your every need. There isn't a space in your lab that isn't a perfect place for our equipment, instruments and consumables. Individually, our products embrace a 50-year tradition of quality and reliability; together, they deliver purchasing efficiencies and cost savings from a trusted single source. **Visit www.fishersci.com/fisherbrand.**

Sample Prep Devices

Fisherbrand® Astral™ Inoculation Device System

Economical, disposable inoculation system designed for safety and dependable sterility

- Calibrated using Evans Blue Dye spectrophotometric procedure and gravimetric method
- Free of DNA, RNase, DNase, Pyrogens and PCR inhibitors
- Astral loops, needles and Clone-Piks are packaged static-free into individual tubular chambers, which are then hermetically sealed with aluminum film
- A dust cover is heat-shrunk onto the unit before it is irradiation-sterilized
- Use on an individual basis; or for quantitative procedures such as sampling, urine counts or serial dilutions

Rack with 10µL Loops (05-664-81)

To use:

- Puncture aluminum film with the handle, pushing down until it attaches to the loop, needle or Clone-Pik
- Withdraw handle; inoculation device is ready for many applications

ORDERING INFORMATION:
Available 96 to a rack and 10 racks to a case.

INCLUDES:
Autoclavable handle with every case

Type	Color	Cat. No.	Case of
Astral Loop, 1µL	Yellow	**05-664-80**	960/319.00
Astral Loop, 10µL	Blue	**05-664-81**	960/313.00
Streaking Needle	White	**05-664-82**	960/319.00

Fisherbrand® Disposable Rigid Inoculating Loops and Needles

Designed for quantitative procedures such as sampling, serial dilutions and urine counts, as well as for bacterial inoculation. Ideal for anaerobic microbiology applications where deep agar inoculation is required. Use in situations where flaming is not practical, such as under hoods and in anaerobic chambers. Flexible enough to facilitate streaking, yet rigid enough to penetrate the media for subsurface inoculation.

- Precision molded from a specially formulated, biologically inert polymer
- Combi Loop has a 10µL loop on one end and a 1µL loop on the other
- Include certificate of dimensional accuracy
- More convenient than metal loops; use a loop directly from the package, then throw it away
- Gamma irradiated for sterility in accordance with U.S. Pharmacopeia Volume XX
- No flaming required, eliminating the hazards of open flames, spattering, cross-contamination and the risk of infection from pathogens distributed by aerosol formation
- Length: 9" (23cm)
- Color-coded for easy identification

ORDERING INFORMATION:
Loops are available individually wrapped or in handy, economical 10 packs.

22-363 Series

Description	Inside Diameter	Color	Packaging	Cat. No.	Pack of	Case of
Combi Loop 1µL/10µL	0.9mm/3.8mm	White	Bags of 10	**22-363-602**	500/77.70	Cs. of 10/677.00
Flexible Combi Loop 1µL/10µL	3.8/0.91mm	White	Individually Wrapped	**22-363-601**	----	250/75.10
Needle	----	White	Bags of 10	**22-363-596**	960/262.00	Cs. of 10/2234.81
1µL Needle	0.9mm	Blue	Bags of 10	**22-363-604**	960/171.12	Cs. of 10/1555.66
1µL Needle	0.9mm	Blue	Individually Wrapped	**22-363-603**	----	250/81.80
Rigid 1µL Needle	0.91/0.91mm	Clear	Bags of 25	**22-363-598**	----	1000/167.82
Flexible 1µL Needle	0.91mm	Light Blue	Individually Wrapped	**22-363-608**	----	250/76.97
10µL Needle	3.8mm	Yellow	Individually Wrapped	**22-363-605**	----	250/85.30
10µL Needle	3.8mm	Yellow	Bags of 25	**22-363-606**	----	1000/179.40
10µL Needle	3.8mm	Yellow	Bags of 10	**22-363-607**	960/171.62	Cs. of 10/1560.53
Flexible 10µL Needle	3.8/0.91mm	Light Yellow	Individually Wrapped	**22-363-600**	----	250/74.20
Rigid 10µL Needle	3.8/0.91mm	Blue	Bags of 25	**22-363-599**	----	1000/205.90
Flexible 1µL Loop	0.91mm	Light Blue	Bags of 10	**22-363-595**	960/284.69	Cs. of 10/2589.13
Flexible 10µL Loop	3.8mm	Light Yellow	Bags of 10	**22-363-597**	960/284.27	Cs. of 10/2585.26

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Decon™ LeLoop™ Inoculating Loops

More economical than platinum or disposable plastic loops

Reusable loops are made of high-quality twisted nichrome wire.

22-032-088 (Top); 22-032-089 (Bottom)

- Loops slide smoothly across agar surfaces without tearing or gouging
- The nichrome wire cools rapidly, saving time
- Loops are available calibrated or noncalibrated
- Calibrated in accordance with ASM/APHA via Evans Blue Test and include calibration certificates
- LeLoop™ loops come without holders, which are available separately

Type	Cat. No.	Pack of	Case of 5 Packs
1µL, Calibrated	**22-032-089**	5/298.47	1355.53
10µL, Calibrated	**22-032-088**	5/305.50	1322.00
Small, Noncalibrated	**22-032-090**	25/93.20	----
Medium, Noncalibrated	**22-032-092**	25/93.70	----
Large, Noncalibrated	**22-032-091**	25/93.20	----

Decon™ LeStab™ Inoculating Microneedles

Perfectly balanced for easy manipulation

- For inoculating or transferring microbiological samples
- Made of a high-quality
- Nichrome™ wire permanently attached to a lightweight, insulated handle
- Nichrome wire cools quickly after flaming

22-032-099

Cat. No.	Pack of 5
22-032-099	72.00

Thermo Scientific™ Nunc™ Disposable Loops and Needles

Ideal for semiquantitative inoculating procedures

Smooth loop surfaces provide problem-free inoculation.

- Radiation sterilized — no need for flame sterilization
- Hydrophilic treatment during manufacturing process
- Liquid adherence properties prevent accidental discharge of droplets
- Color coded for easy identification
- Loops available in 10 and 1µL sizes
- Meet semi-quantitative standard for handling samples
- Calibration documents available for any batch upon request

Type	Color	Mfr. No.	Cat. No.	Pack of	Case of 4 Packs
10µL Loop	Blue	251586	**13-075-4A**	1000/208.50	715.50
10µL Loop	Blue	254437	**13-075-4C**	600/185.40	628.50
1µL Loop	Clear	253287	**13-075-4B**	1000/208.50	715.50
1µL Loop	Clear	254410	**13-079C**	600/185.40	626.50
Needle	Yellow	253988	**13-079A**	1000/208.50	715.50
Needle	Yellow	254399	**13-079B**	600/185.40	640.00

ACCESSORIES

LeLoop™ Holder

Holders for LeLoop Inoculating Loops

22-032-093

- Nickel-plated brass with insulated handles
- Available in 6 and 8" lengths

Description	Cat. No.	Each	Case of 10
6" Loop Holder	**22-032-093**	52.62	447.91
8" Loop Holder	**22-032-095**	76.00	663.00

Stains/Dyes and Indicators

Remel™ Bactidrop™ Reagents

Reagents and stains in 0.75mL crushable ampules encased in protective plastic sheath with convenient dropper dispenser tip

Description	Application[s]	Mfr. No.	Cat. No.	Pack of 50
Reagent Droppers				
Desoxycholate	For bile solubility reaction	21508	**R21508**	138.60
Ferric Chloride	For detection of phenylalanine deamination	21514	**R21514**	144.90
Indole, Kovac's	For determination of the ability of microorganisms, primarily *Enterobacteriaceae,* to split indole from the tryptophan molecule. For use with Indole Broth.	21522	**R21522**	140.60
Ninhydrin	For detection of sodium hippurate hydrolysis	21534	**R21534**	150.50
Nitrate A	For determination of the ability of microorganisms to reduce nitrate to nitrite or free nitrogen gas. Used in conjunction with Nitrate Reagent B	21536	**R21536**	150.00
Nitrate B	For determination of the ability of microorganisms to reduce nitrate to nitrite or free nitrogen gas. Used in conjunction with Nitrate Reagent A	21538	**R21538**	141.60
Oxidase	For detection of the presence of the oxidase enzyme	21540	**R21540**	118.80
Potassium Hydroxide	For preparation of clinical specimens for microscopic examination of fungal elements	21524	**R21524**	128.70
Spot Indole	For determination of the ability of microorganisms to split indole from the tryptophan molecule by spot test method	21550	**R21550**	120.90
Voges-Proskauer A	For detection of acetylmethylcarbinol from glucose fermentation. Used in conjunction with VP-B. For use with MRVP Broth	21560	**R21560**	146.80
Voges-Proskauer B	For detection of acetylmethylcarbinol from glucose fermentation. Used in conjunction with VP-A. For use with MRVP Broth	21562	**R21562**	151.40
Stain Droppers				
Calcofluor White	Fluorescent stain for fungi, *Microsporidium, Acanthamoeba* and *Pneumocystis*	21507	**R21507**	134.80
Dobell and O'Connor Iodine	For staining protozoa	21510	**R21510**	120.90
India Ink	For staining encapsulated microorganisms	21518	**R21518**	138.20
Lactophenol Aniline Blue	For staining fungal elements	21526	**R21526**	128.70

BD™ BBL™ Gram Stain Kits

Used to stain microorganisms from cultures or specimens by the differential Gram method

B12539

- Complete stain kits reduce the mess associated with Gram staining procedures
- Each break-resistant solution bottle features a hinged spot cap that makes regulating the flow easy and helps prevent spots and spills
- Color-coded labels allow quick identification of reagents
- Stabilized Iodine
- Solution requires no mixing and has a long shelf life

INCLUDES:
One 250mL bottle each of Gram Crystal Violet, Iodine, Gram Decolorizer and Gram Safranin

Description	Mfr. No.	Cat. No.	Each
With Stabilized Iodine	212524	**B12539**	72.20
With Unstabilized Iodine	212539	**B12524**	75.60

BD™ BBL™/Difco™ TB Acid Fast Stains

Each set contains one 250mL bottle of each component; stains are also available separately in packs of three or four 250mL bottles

Stain Sets

- **TB Fluorescent Stain Kit M** — One 250mL bottle each: Auramine M, Decolorizer and Potassium Permanganate
- **TB Fluorescent Stain Kit T** — One 250mL bottle each: Auramine – Rhodamine T, Decolorizer TM and Potassium Permanganate
- **TB Stain Kit K** — One 250mL bottle each: Carbolfuchsin KF, Decolorizer and Brilliant Green K
- **TB Stain Kit ZN** — One 250mL bottle each: Carbolfuchsin ZN, Decolorizer and Methylene Blue

Description	Mfr. No.	Cat. No.	Each
Stain Kits			
Fluorescent Stain Set M (Auramine M, Decolorizer and Potassium Permanganate)	212519	**B12519**	115.10
Fluorescent Stain Set T (Auramine Rhodamine T, Decolorizer TM and Potassium Permanganate)	212521	**B12521**	120.90
Stain Set K (Carbolfuchsin KF, Decolorizer and Brilliant Green K)	212522	**B12522**	122.00
Stain Set ZN (Carbolfuchsin ZN, Decolorizer and Methylene Blue)	212520	**B12520**	140.30
Individual Stains — 4 × 250mL Stain Packs			
Auramine M	212514	**B12514**	142.20
Auramine-Rhodamine T	212515	**B12515**	199.20
Brilliant Green K	212523	**B12523**	90.20
Carbolfuchsin KF	212518	**B12518**	264.00
Carbolfuchsin ZN	212511	**B12511**	237.00
Decolorizer	212517	**B12517**	88.00
Decolorizer TM	212512	**B12512**	75.60
Methylene Blue	212516	**B12516**	97.50
Potassium Permanganate	212513	**B12513**	88.60
Control Slides — 50 Slides			
AFB QC Slides	231391	**B231391**	261.00

Susceptibility Testing

BD™ BBL™ Sensi-Disc™ Susceptibility Test Discs

Cost-effective method uses antimicrobial agents impregnated on high-quality paper

- Employs Bauer-Kirby disc diffusion testing method
- Use in self-tamping dispensers

STORAGE:
Refrigerate as detailed on label.

Antibiotic/Antimicrobial Agent	Concentration	Cat. No.	Each	Cat. No.	Pack of 10
Amoxicillin with Clavulanic Acid	30mcg	**B31596**	25.35	**B31629**	124.90
Ampicillin	10mcg	**B30705**	25.15	**B31264**	122.90
Ampicillin with Sulbactam™	10/10mcg	----	----	**B31660**	121.50
Bacitracin	10 units	----	----	**B31268**	125.10
Carbenicillin	100mcg	----	----	**B31555**	125.30
Cefaclor	30mcg	----	----	**B31653**	125.30
Cefazolin	30mcg	**B31592**	24.27	**B31593**	121.50
Cefoperazone	75mcg	----	----	**B31613**	121.30
Cefotaxime	30mcg	**B31606**	24.60	**B31607**	121.70
Cefotetan	30mcg	----	----	**B31656**	121.70
Cefoxitin	30mcg	**B31590**	25.45	**B31591**	121.20
Ceftazidime	30mcg	**B31632**	24.60	**B31633**	121.50
Ceftriaxone	30mcg	**B31634**	25.30	**B31635**	121.70
Cefuroxime	30mcg	**B31620**	23.61	**B31621**	121.70
Cephalothin	30mcg	**B30725**	25.35	**B31271**	125.00
Chloramphenicol	30mcg	**B30733**	25.25	**B31274**	123.80
Ciprofloxacin	5mcg	**B31657**	25.45	**B31658**	121.20
Clindamycin	2mcg	**B31213**	24.35	**B31275**	120.00
Cloxacillin	1mcg	----	----	**B31276**	132.10
Colistin	10mcg	**B30749**	24.80	**B31278**	121.80
Doripenem DOR-10	---	---	----	**B232219**	105.00
Doxycycline	30mcg	**B30777**	24.95	**B31286**	124.80
Erythromycin	15mcg	**B30793**	25.80	**B31290**	123.60
Gentamicin	10mcg	**B31227**	25.80	**B31299**	126.20
Imipenem	10mcg	**B31644**	26.05	**B31645**	124.80
Kanamycin	30mcg	**B30829**	21.21	**B31301**	128.30
Nalidixic Acid	30mcg	**B30874**	26.10	**B31311**	128.30
Neomycin	30mcg	----	----	**B31313**	128.30
Nitrofurantoin	300mcg	----	----	**B31293**	124.80
Novobiocin	5mcg	**B30886**	26.25	**B31314**	124.80
Novobiocin	30mcg	----	----	**B31315**	128.30
Oxacillin	1mcg	**B30906**	25.80	**B31319**	123.60
Penicillin	10 units	**B30918**	25.20	**B31321**	123.10
Piperacillin	100mcg	**B31608**	25.40	**B31609**	121.70
Polymyxin B	300 units	----	----	**B31324**	125.20
Rifampin	5mcg	**B31541**	25.55	**B31544**	125.30
Streptomycin	10mcg	**B30942**	25.40	**B31328**	115.60
Sulfamethoxazole with Trimethoprim	25mcg	**B31536**	25.20	**B31539**	123.10
Sulfisoxazole	0.25mg	----	----	**B31296**	125.10
Tetracycline	30mcg	**B30998**	25.20	**B31344**	123.10
Tobramycin	10mcg	**B31568**	25.40	**B31569**	121.70
Trimethoprim	5mcg	----	----	**B31601**	125.10
Vancomycin	5mcg	**B31030**	24.65	**B31352**	120.60
Vancomycin	30mcg	**B31034**	25.20	**B31353**	123.90

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EMD Millipore™ Samplers

Self-contained dip testers containing a filtration membrane and a nutrient pad

- Ideal for monitoring liquids or equipment/surfaces if combined with the swab
- Easy to use — simply sample, incubate and count
- Ergonomic polyethylene paddle reduces contamination risk
- Mixed cellulose filter with 0.45µm pore size filter is gridded to facilitate colony counting

Coli-Count™ (blue) Sampler

- Contains a medium for recovery of coliforms
- Ideal for coliform testing in food, raw materials, treated water and processed water
- Incubation time: 22 to 24 hours at 35°C ±1°C (95°F)

HPC (red) Sampler

- Contains m-HPC medium for stressed aerobic bacteria
- Use to enumerate bacteria in dental and dialysis water, surfaces after sanitation programs
- Incubation time: 48 to 72 hours at 25° to 35°C

Yeast and Mold (yellow) Sampler

- Contains m-Green medium
- Use to monitor yeasts and molds in food and beverages
- Incubation time: 24 to 72 hours at 28° to 35°C

STORAGE:
Stable for 12 months from date of manufacture if stored at 15° to 30°C.

REQUIRES: Incubator

Description	Color	Cat. No.	Pack of 25
Coli-Count Sampler	Blue	**MC0010025**	134.55
Yeast and Mold Sampler	Yellow	**MY0010025**	156.39
HPC Total Count Sampler	Red	**MHPC10025**	134.55

EMD Millipore™ Nutrient Media

Developed specifically for culturing microorganisms on membrane filters; select media type to match organism type and analytical test needs

- Each dry powder lot for media preparation assayed for purity and compared to satisfactory lot
- Each m-Endo broth for total coliform lot and m-FC broth for fecal coliform analysis lot certified in accordance with the Safe Drinking Water Act
- Lot QC certificates included in each package as added assurance for critical procedures

MHA00 Series

ORDERING INFORMATION:
Nutrient media comes in liquid form, packaged in 2mL plastic ampules. Refrigerate as detailed on label.

Type	Application	Packaging	Cat. No.	Pack of 50
Bacteria				
Total Count: Standard Plate Broth (TGE)	Enumerating bacteria in water, milk and other fluids	2mL plastic ampule	**MHA000P2T**	76.70
Total Count: Standard Plate Broth with Indicator (TGE with TTC)	Same as above, with red indicator TTC added	2mL plastic ampule	**MHA00P2TT**	85.60
m-HPC and Total Count Broth for Total Bacteria	Growth of total bacteria, including aerobic or facultative anaerobic bacteria, in treated waters	2mL plastic ampule	**MHA000P2S**	76.70
Pseudomonas Selective Broth	Purified water	2mL plastic ampule	**MHA000P2P**	76.70
Brettanomyces Selective Broth	For detection of *Brettanomyces*	2mL plastic ampule	**MHA00BSM2**	64.30
m-Green (Yeast/Mold) Selective	Testing soft drinks and other beverages for growth of yeast and mold in pH 4.5 range	2mL plastic ampule	**MHA000P2M**	74.90
Yeast/Mold Selective	Recover yeast and mold in food/beverage industry; suppress background bacteria	2mL plastic ampule	**MHA00P2SM**	85.60
Coliforms and Fecal Streptococci				
m-Endo Total Coliform Broth	Presumptive and confirming	2mL plastic ampule	**MHA000P2E**	76.70
m-FC Broth	Waste or effluent waters	2mL plastic ampule	**MHA000P2F**	79.40
m-FC Broth w/o Rosolic Acid	Fecal coliforms in waste and effluent waters	2mL plastic ampule	**MHA00FCR2**	67.60

Microchemistry Kits

Kontes™ Microflex™ Microscale Kit with Ŧ 14/10 Connection

Components have threaded Ŧ 14/10 connections for fast assembly

K746000-0000

For experiments described in *Organic Laboratory Techniques: A Microscale Approach* (Saunders College Publishing, Troy, MO) and *Microscale Organic Laboratory* (John Wiley & Sons, New York). The Standard Kit (Cat. No. K746000-0000) is required to perform all experiments in those texts. Kits feature high-temperature-resistant blue nylon connectors ideal for use in temperatures to 200°C (392°F).

ORDERING INFORMATION: In 10L × 13.5W × 2.5"H (25.4 × 34 × 6cm) storage case with foam insert.

Catalog numbers for all kit components are listed in the accompanying chart; contact your Fisher Scientific Customer Service Representative to order replacement items. Items without a catalog number in the chart are not available separately.

Component	Mfr. No.	Cat. No.	Standard Kit	Basic Kit	Intermediate Kit
Claisen Adapter	746010-0000	**K746010-0000**	1	1	1
Connecting Adapter	746020-0000	**K746020-0000**	1	----	----
Thermometer Adapter	746030-0000	**K746030-0000**	1	----	1
Jacketed Condenser	746050-0000	**K746050-0000**	1	1	1
Air Condenser	746060-0000	**K746060-0000**	1	----	1
Hickman Distillation Head	746080-0000	**K746080-0000**	1	1	1
Craig Recrystallization Tube, 2mL	747332-0002	**K747332-0002**	1	1	1
Craig Recrystallization Plug	747331-0001	**K747331-0001**	1	1	1
Drying Tube	746090-0000	**K746090-0000**	1	1	1
Pear Shape Flask, 5mL, Thin-Wall	746110-0005	**K746110-0005**	1	----	1
Round Bottom Flask, 10mL	746120-0010	**K746120-0010**	1	1	1
Micro Vial, 0.1mL	60710-110	**K60710-110**	1	----	----
Micro Vial, 3mL	746100-0003	**K746100-0003**	1	1	1
Micro Vial, 5mL	746100-0005	**K746100-0005**	1	1	1
GC Collection Tube with O-Ring	746130-0000	**----**	1	----	----
Compression Cap, 20-400	410119-2015	**K410119-2015**	12	7	10
Septum	774161-0020	**K774161-0020**	4	2	4
Syringe, Polyethylene	748019-0001	**K748019-0001**	1	----	1
Gas Delivery Tube	746140-1020	**K746140-1020**	1	----	1
Vacuum Adapter	746035-0814	**K746035-0814**	1	1	----
Foam Insert Set	746001-0002	**----**	1	1	1
Storage Case	746001-0001	**K746001-0001**	1	1	1

Kit Description	Mfr. No.	Cat. No.	Each
Standard Kit	746000-0000	**K746000-0000**	477.00
Basic Kit	746220-0000	**K746220-0000**	301.00

Kontes™ Williamson Microchemistry Kits

For experiments developed by Kenneth L. Williamson and described in *Macroscale and Microscale Organic Experiments* (D.C. Heath and Company, Lexington, MA)

Thermoplastic connections without threads or standard taper joints for fast connections.

11-304-1

ORDERING INFORMATION:
In 10L × 13.5W × 2.5"H (25.4 × 34 × 6cm) storage case with foam insert.

Catalog numbers for all kit components are listed in the accompanying chart; call your Fisher Scientific Customer Service Representative to order replacement parts.

Component	Mfr. No.	Cat. No.	Standard Kit	Intermediate Kit
Connecting Adapter	748001-1000	**K748001-1000**	1	1
Filter Adapter, Pluro Stopper	748002-0000	**K748002-0000**	1	1
Thermometer Adapter	748003-1000	**K748003-1000**	1	1
Centrifuge Tube	411800-1015	**K411800-1015**	1	1
Chromatography Column with Disc	420166-1001	**K420166-1001**	1	1
One-way Stopcock, PE/Nylon	420163-1500	**K420163-1500**	1	1
Viton™ Connector	748005-1651	**11-304-17**	1	1
Connector with Support Rod	748005-1000	**K748005-1000**	1	1
Connector only	248005-1001	**K248005-1001**	1	1
Distillation Column	748006-1100	**K748006-1100**	1	1
Distillation Head	748007-1060	**11-304-18**	1	1
Short-neck Flask, 5mL	748008-1005	**K748008-1005**	1	1
Long-neck Flask, 5mL	748009-1005	**K748009-1005**	1	----
Erlenmeyer Flask, 10mL	882300-0010	**K882300-0010**	1	----
Filtering Flask, 25mL	748010-1025	**K748010-1025**	1	1
Hirsch Funnel with Disc	748012-1000	**K748012-1000**	1	1
Reaction Tube, 100mm long	748013-1000	**K748013-1000**	5	2
Pipet, 1mL	764100-1001	**K764100-1001**	1	----
Micro Stir Bar	791145-0021	**K791145-0021**	1	----
Stainless-steel Spatula	748014-1000	**K748014-1000**	1	----
Plastic Syringe	748019-0001	**K748019-0001**	1	1
PTFE Tubing for 20-gauge Needle	420823-0116	**K420823-0116**	1 roll × 2' (0.6m)	1 roll × 2' (0.6m)
Foam Insert	748001-0003	**11-304-16**	1	1
Storage Case	746001-0001	**K746001-0001**	1	1

Description	Mfr. No.	Cat. No.	Each
Standard Kit	748100 0000	**11-304-1**	322.00
Intermediate Kit	748110 0000	**11-304-2**	165.30

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kontes™ Standard Threaded Microscale Kit

Features versatile threaded chaste connections which can be assembled "rightside up" or "upside down"

Contains all components necessary to perform experiments described in the following texts: *Organic Laboratory Techniques: A Microscale Approach,* (Saunders College Publishing), and *Microscale Organic Laboratory,* John Wiley & Sons

K747000-0000

- Fits easily into lab bench drawers
- Also available in EKONO-CASE™, a low-cost corrugated cardboard alternative to plastic With high temperature resistant blue nylon/PTFE connectors
- Ideal for use to 200°C

ORDERING INFORMATION:
Kits are packed in a rugged polyethylene storage case (10D × 13.5W × 2.5"H) with a die cut foam insert.

Kit components are listed in the chart below. Contact your Fisher Scientific Customer Service Representative to order replacement items. Items without a catalog number in the chart are not available separately.

Component	Mfr. No.	Cat. No.	Quantity
Claisen Adapter, 13-425	747100 0000	----	1
Connecting Adapter, 13-425	747120 0000	**K747120-0000**	2
Vacuum Adapter, 13-425, 20-400	747140 0000	----	1
Connector, 13-425 to .25" - 28	747160 0000	----	1
Connector, 13-425 to Hose Connector	747185 0013	**K747185-0013**	2
Micro Beaker, 10mL	747190 0010	----	2
Connector, 13-425 to 13-425	747205 1313	**K747205-1313**	4
Connector, 13-425 to 20-400	747205 1320	**K747205-1320**	1
Connector, 20-400 to 20-400	747205 2020	**K747205-2020**	1
Water Jacketed Condenser, 13-425	747250 0000	----	1
Drying Tube/Chromatography Column, 50mm, 13-425	747300 0050	**K747300-0050**	2
Air Condenser/Chromatography Column, 100mm, 13-425	747300 0100	----	1
Hickman Distillation Head	747350 0000	**K747350-0000**	1
PTFE Filter, 30 to 60 microns, 13mm	747400 2313	----	6
PTFE Filter Support, 13mm	747405 0013	----	6
Cylindrical Flask, 10mL, 20-400	747500 0010	**K747500-0010**	2
Micro Vial, 1mL, 13-425	60700 1	**06100C**	2
Micro Vial, 3mL, 20-400	60700-3	**06100E**	2
Micro Vial, 5mL, 20-400	60700-5	**06100F**	2
Compression Cap, 13-425	410119 1307	----	1
Foam Insert Set	747001 0002	----	1
Storage Case	746001 0001	**K746001-0001**	1

Description	Mfr. No.	Cat. No.	Each
Standard Threaded Microscale Kit	747000-0000	**K747000-0000**	585.84

Kontes™ Incubation Flasks

For metabolic studies of biological materials

K882360-0010

Ideal for measuring $C_{14}O_2$ yields following incubation, *in vitro* incubations, insulin bioassays, persulfate oxidations and distillation of any volatile acid or base. Also suitable for use with phosphate or bicarbonate buffers when acid or alkali is introduced at the end of a reaction.

- Available with or without sidearm
- Flask with sidearm enables syringe needle entry without disturbing established conditions

ORDERING INFORMATION:
Stoppers and center well sold separately.

Capacity	Approx. O.D. × H	Cat. No.	Pack of 12
Without sidearm			
10mL	31 × 50mm	**K882300-0010**	106.50
With sidearm			
10mL	31 × 50mm	**K882360-0010**	216.50

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Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Kimble-Chase Kimax™ Organic Chemistry Kits

Include an assortment of items required for basic organic laboratory experiments

- For education and research
- All joints in a kit are the same ₮ size, making it easy to set up a number of procedures

ORDERING INFORMATION:
Kit 11-301-20 comes in a heavyweight corrugated cardboard and inserts are soft foam. Kit components are listed in the chart below; contact your Fisher Scientific Customer Service Representative to order replacement items.

Kit Description	₮ 14/20 Kit	₮ 19/22 Kit	₮ 24/40 Kit
Mfr. No.	269320-0000	269800-0000	33820 99
Cat. No.	**K269320-0000**	**K269800-0000**	**11-301-20**
Each	601.22	594.50	924.64

11-301-20

	₮ 14/20 Kit			₮ 19/22 Kit			₮ 24/40 Kit		
Component	**Mfr. No.**	**Cat. No.**	**Quantity**	**Mfr. No.**	**Cat. No.**	**Quantity**	**Mfr. No.**	**Cat. No.**	**Quantity**
Bleed Adapter	273410-0000	**K273410-0000**	1	273410-0000	**K273410-0000**	1	----	----	----
Claisen Adapter	273750-0000	**K273750-0000**	1	272760-0000	**K272760-0000**	1	----	----	----
Connecting Adapter	274950-0000	**K274950-0000**	1	275060-0000	**K275060-0000**	1	----	----	1
Outlet Adapter	275410-1420	**K275410-1420**	1	275410-1922	**K275410-1922**	1	----	----	----
Three-Way Adapter	----	----	----	----	----	----	----	----	1
Vacuum Adapter	276400-0000	**K276400-0000**	1	276410-0000	**K276410-0000**	1	----	----	1
Condenser, West	282550-0000	**K282550-0000**	1	282460-0200	**K282460-0200**	1	----	----	1
Distillation Column	286820-0110	**K286820-0110**	1	286810-0200	**K286810-0200**	1	21805-300	**10-310-55**	1
Flask, 25mL	294000-0025	**K294000-0025**	1	294010-0025	**K294010-0025**	1	----	----	----
Flask, 50mL	294000-0050	**K294000-0050**	1	294010-0050	**K294010-0050**	1	25285-50	**10-067-2AA**	1
Flask, 100mL	294000-0100	**K294000-0100**	1	294010-0100	**K294010-0100**	1	25285-100	**10-067-2B**	1
Flask, 200mL	----	----	----	----	----	----	25285-200	**10-067-2C**	1
Flask, 250mL	294000-0250	**K294000-0250**	1	294010-0250	**K294010-0250**	1	----	----	----
Flask, Short Neck, 300mL	----	----	----	----	----	----	----	----	1
Flask, 500mL	294000-0500	**K294000-0500**	1	294010-0500	**K294010-0500**	1	----	----	----
Funnel, 125mL PTFE	298281-0125	**K298281-0125**	1	295290-0125	**K295290-0125**	1	29057F-125	**10-310-137**	1
Stopper	850500-1420	**K850500-1420**	1	850500-1922	**K850500-1922**	1	----	----	2
Thermometer Adapter	----	----	----	----	----	----	----	----	1
Neoprene Fitment	----	----	----	----	----	----	44870R-99	**11-301-81**	1

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Microplate Instrumentation

Microplate Readers

Fisher Scientific™ Multiskan™ FC Microplate Reader

Reliable and robust microplate photometer for a wide variety of research and routine applications

The Multiskan FC combines the world-renowned quality of the Multiskan product line with a large color screen, visual internal software and multiple language versions to ensure excellent usability. Proven and patented optical design, in combination with the auto-calibration procedure that is performed during each measurement, guarantees stable day-to-day and year-to-year performance and reliability.

14-387-360

Wide variety of photometric applications

- Equipped with linear shaking as a standard feature
- Fast, accurate measurements provide complete 96-well plate reading in less than six seconds
- Model with incubator provides incubation temperatures up to 50°C and the capacity to read 384-well plates
- Wide wavelength range from 340 to 850nm enables a wide variety of applications from enzyme kinetic studies through to Lowry assays
- Eight-position filter wheel with three standard filters 405, 450 and 620nm pre-installed

Easy to use with internal software or under PC control

- Combined with the simple and logical internal software and multiple language options, ensures excellent usability and easy assay setup
- Highly visual and logical user interface of SkanIt™ Software for PC control makes assay setup and data handling for both research and routine applications easy
- Graphical step list feature allows straightforward setup of any assay

Description	Mfr. No.	Cat. No.	Each
Multiskan FC	51119060	**14-387-360**	6375.00
Multiskan FC with Incubator	51119160	**14-387-361**	7945.80

Specifications	
Wavelength Range	340 to 850nm
Linearity (96-well plate, 405nm)	0 to 3 Abs, ±2%, fast mode; 0 to 4 Abs, ±2%, normal mode
Linearity (384-well plate, 405nm)	0 to 2.5 Abs, ±2%, fast mode; 0 to 3 Abs, ±2%, normal mode
Readout Range	0 to 6 Abs
Accuracy (405nm)	±1% (0.3 to 3 Abs), ±2% (2 to 4 Abs)
Precision (405nm)	CV ≤0.2% (0.3 to 3 Abs), CV ≤1.0% (3 to 4 Abs)
Measurement Speed	6 s, 96-well plate, fast mode; 12 s, 96-well plate, normal mode; 11 s, 384-well plate, fast mode; 33 s, 384-well plate, normal mode
Shaking	Linear shaking with three modes: slow, medium, fast
Filters	Eight-position filter wheel; filters installed: 405, 450, and 620nm. Additional filters can be ordered separately.
Optional Incubator	Temperature range from ambient +4° up to 50°C

BioTek™ Cytation3 Cell Imaging Multi-Mode Reader

Cytation3 is a cell imaging multi-mode microplate reader that combines automated digital microscopy and conventional microplate detection. This unique design provides rich phenotypic cellular information with well-based quantitative data.

Cytation 3 Cell Imaging Multi-Mode Reader

- Automated digital microscopy and/or multi-mode microplate detection in one instrument
- Modular and upgradable: microscopy only, microplate reading only or both
- Flexible sample format: 6- to 384-well plates, microscope slides and cell culture flasks
- Affordable automation: automated XY stage, auto focus, auto exposure, automated image capture, LED intensity
- Inverted fluorescence (4 LED filter cube capacity) and brightfield microscopy
- From 2x for full-well imaging to 60X for sub-micron resolution for intra-cellular details
- High quality images: Olympus objectives, 16-bit gray scale CCD camera, Semrock filters
- Live cell assays with temperature control up to 45°C, CO2/O2 gas control accessory
- Endpoint, time-lapse and montage assays
- Automatic cell counting, sub-population analysis and image statistics
- Patented Hybrid Technology™ microplate reading mode with high performance filter-based optics and high-flexibility monochromator optics

Visit www.fishersci.com/cytation3 for more information.

Description	Mfr. No.	Cat. No.	Each
Monochromator, Fluorescence and Absorbance; Filter Based; Automated Fluorescence and Brightfield Imaging	CYT3MFV	**BTCYT3MFV**	80,500.00
Monochromator; Automated Imaging	CYT3MV	**BTCYT3MV**	67,500.00
Filter Based; Automated Imaging	CYT3FV	**BTCYT3FV**	55,500.00
Automated Fluorescence and Bright-field Imaging	CYT3V	**BTCYT3V**	42,500.00
Monochromator, Fluorescence and Absorbance; Filter Based	CYT3MF	**BTCYT3MF**	53,000.00
Monochromator	CYT3M	**BTCYT3M**	40,000.00
Filter Based	CYT3F	**BTCYT3F**	28,000.00

BioTek™ Synergy™ NEO HTS Multi-Mode Microplate Readers

With multiple parallel detectors for ultra-fast measurements and a dedicated filter-based system for live cell assays

- Compact footprint makes this system ideal for automation or benchtop implementation
- Four PMT detectors including a dual PMT read head
- Fastest plate stacker with a plate load/unload time of 6 seconds
- Powerful 100mW laser-based excitation source for Alpha assays
- Patented hybrid optical system that includes top and bottom filter-based optics for high speed and performance; top and bottom monochromator optics for ultimate wavelength flexibility

Synergy NEO HTS Multi-Mode Microplate Reader

- Advanced 4-zone™ incubator with temperature control to 65°C to cover the broadest range of incubated assays
- Multi-directional bar code reader supports standard 1-D bar codes and 2-D bar codes
- Fast reading speeds (6 seconds for 96-well plates, 11 seconds for 384-well plates)
- Bar code-labeled filter cubes for fluorescence and Alpha detection for error-free parameter selection
- Optional integrated plate stacker allows walk-away automation of short- or long-term assays
- Powerful, easy-to-use, Gen5 2.0 Data Analysis Software

Model: NEOB

- Top dual PMT and bottom filter optics
- Top and bottom monochromator optics
- Fluorescence intensity
- Fluorescence polarization
- Time resolved fluorescence
- UV-Vis absorbance and luminescence

Model: NEOALPHAB

- Top dual PMT and bottom filter optics
- Top and bottom monochromator optics
- Alpha laser
- Fluorescence intensity
- Fluorescence polarization
- Time resolved fluorescence
- UV-Vis absorbance and luminescence

CERTIFICATIONS: CE marked, TUV marked

NOTES: For *in vitro* diagnostic use.

Description	Mfr. No.	Cat. No.†	Each†
With fluorescence intensity, fluorescence polarization, time resolved fluorescence, UV-Vis absorbance, luminescence	NEOB	**BTNEOB**	91,800.00
With Alpha laser, fluorescence intensity, fluorescence polarization, time resolved fluorescence, UV-Vis absorbance, luminescence	NEOALPHAB	**BTNEOALPHAB**	$103,020.00

BioTek™ Accessories for Synergy™ NEO HTS Multi-Mode Microplate Readers

Description	Mfr. No.	Cat. No.	Each
BioStack with Integration Kit for BioStack NEO	BIOSTACKNEO	**BIOSTACKNEO**	15,000.00
Dual Reagent Dispenser Module	8040003	**BT8040003**	8755.00

Specifications	
General	
Read method	End point, kinetic, spectral scanning, well area scanning
Microplate Types	1- to 1536-well plates; Compatible with Take3™ Micro-Volume Plates with 2µL microspots
Temperature Control	3°C above ambient to 65°C+0.5°C at 37°C
Shaking	Linear, orbital, double orbital
Read height	Auto Z, 0.1mm steps, top/bottom (filters), top (mono)
Kinetic Speed	96 well: 6 seconds 384 well: 11 seconds 1536 well: 25 seconds
w/Stacker, Min. Processing Time per Plate	96 well: 20 seconds 384 well: 25 seconds 1536 well: 39 seconds
Barcode Reader	Multi-directional, 1D and 2D camera-based scanner
Absorbance	
Light Source	Xenon flash lamp
Wavelength Selection	Monochromator
Wavelength Range	230 - 999nm, 1nm increment
Dynamic Range	0 - 4 OD
Resolution	0.0001 OD
Fluorescence Intensity	
Sensitivity	Filter cubes: Fluorescein 0.5 pM typical (384-well low volume plate) - Top; Fluorescein 1 pM typical (384-well low volume plate) - Bottom; Quadruple Monochromator: Fluorescein 2 pM typical (384-well low volume plate) - Top; Fluorescein 2.5 pM typical (384-well low volume plate) - Bottom
Wavelength Selection	Double grating monochromators (top/bottom) and, filter cubes (top/bottom)
Wavelength Range	Monochromators: 250 - 850nm Filters Cubes: 200 - 850nm
Bandpass	Monochromators: 16nm excitation/emission Filters: filter-dependant, from 5nm to >100nm
Detection System	Two matched PMTs top filter system Low Noise PMT bottom filter system Red shifted PMT top/bottom monochromator system
Luminescence	
Sensitivity	5 amol ATP typical (384-well low volume plate)
Wavelength Range	300 - 700nm
Fluorescence Polarization	
Sensitivity	1 mP at 1nM fluorescein typical (384-well low volume plate)
Wavelength Selection	Filter cubes (top / bottom)
Wavelength Range	320 - 850nm
Time-Resolved Fluorescence	
Sensitivity	Europium 40 fM typical (384-well low volume plate)
Wavelength Selection	Filter cubes (top/bottom) Double grating monochromator (top/bottom)
Detection System	Two matched PMTs
Description 7	Filters: 200 - 850nm Monochromators: 250 - 850nm
Alpha	
Read Speed	96 well: 30 seconds 384 well: 1 minute 50 seconds 1536 well: 7 minutes 20 seconds
Wavelength Selection	Filter cubes
Light Source	100mW 680nm laser
Sensitivity	100 amol LCK peptide (384-well low volume plate)
Physical Characteristics	
Power	250w max.
Dimensions	20.7D x 15.4W x 16.1"H (52.5 x 39 x 41cm)
Weight	78 lb. (35kg)

BioTek™ Synergy™ H1 Hybrid Multi-Mode Microplate Readers

Flexible monochromator-based detection with high performance dichroic-based filter detection

Monochromator optics supports top and bottom fluorescence intensity, UV-visible absorbance and high-performance luminescence detection.

- Quadruple grating monochromator for maximum flexibility and ease of use
- Compatible with Take3™ Multi-Volume Plate with 16 microspots of 2µL each for low-volume nucleic acid quantification
- Dichroic-based filter optics for best performance and advanced detection technologies, such as fluorescence polarization and time-resolved fluorescence

11-120-531

- Third generation quadruple grating design of the monochromator optics allows working at any excitation or emission wavelength with a 1nm step
- Filter module includes its own light source and a high-performance dichroic-based wavelength selection system
- Dual reagent injection system option automates ion channel assays and flash luminescent assays
- Available with Gen5™ Data Analysis Software: reader control, advanced data analysis and flexible Excel export in one software package

Accessories:

- Take3 Multi-Volume Plate
- BioStack™: 30 or 50 plate stacker
- Gen5 Secure for 21CFR part 11 compliance
- Fluorescence, luminescence and absorbance test plates
- H1MFDG
- Compatible with gas controller

APPLICATIONS: Academic Life Science Research Biotech industry — especially smaller companies and start-ups. Clinical — Filter module for emerging applications of TRF, FP and luminescence

NOTES: Dual reagent dispenser option available with all models

Detection Modes	Mfr. No.	Cat. No.	Each
Without Dual Reagent Dispenser			
Filter/dichroic fluorescence, Fluorescence polarization, Time-resolved fluorescence, Filtered luminescence	BTH1F	**11-120-531**	24,890.00
Monochromator fluorescence, Monochromator absorbance, Full-light luminescence	BTH1M	**11-120-533**	35,710.00
Monochromator fluorescence, Monochromator absorbance, Full-light luminescence, Filter/dichroic fluorescence, FP, TRF, Filtered luminescence	BTH1MF	**11-120-535**	46,530.00
With Dual Reagent Dispenser			
Filter/dichroic fluorescence, Fluorescence polarization, Time-resolved fluorescence, Filtered luminescence	BTH1FD	**11-120-532**	32,465.00
Monochromator fluorescence, Monochromator absorbance, Full-light luminescence	BTH1MD	**11-120-534**	43,290.00
Monochromator fluorescence, Monochromator absorbance, Full-light luminescence, Filter/dichroic fluorescence, FP, TRF, Filtered luminescence	BTH1MFD	**11-120-536**	54,110.00
Monochromator fluorescence, Monochromator absorbance, Full-light luminescence, Filter/dichroic fluorescence, FP, TRF, Filtered luminescence; Compatible w/Gas controller	H1MFDG	**BTH1MFDG**	54,620.00

Specifications	
General	
Microplate Types	1- to 384-well plates; Compatible with Take3™ Multi-Volume Plate with 2µL microspots
Shaking	Yes
Temperature Control	RT to 45°C
Top Optics Adjustment	Automated
BioStack Compatible (Automation-Ready)	Yes
Software	Gen5™ Data Analysis Software
Dimensions	18.6D x 15.4W x 12.9"H (47.2 x 39.1 x 32.8cm)
Weight	50 lb. (22.5kg)
Fluorescence Intensity	
Light Source	Xenon Flash Lamp
Wavelength Range	Monochromators: 250-700nm (900nm option); Filters: 200-700nm (900nm option)
Wavelength Selection	Double grating monochromators (Top/Bottom) and deep blocking bandpass filters / dichroic mirrors (Top)
Sensitivity Top	Monochromators: fluorescein 2.5 pM typical (0.25 fmol/well 384-well plate); Filters/mirrors: fluorescein 1 pM typical (0.1 fmol/well 384-well plate)
Luminescence	
Wavelength Range	300-700nm
Dynamic Range	P6 Decades
Sensitivity (ATP)	Monochromator system: 20 amol ATP typical (flash) Filter system: 10 amol ATP typical (flash)
Absorbance	
Light Source	Xenon Flash Lamp
Wavelength Range	230-999nm, 1nm increment
Wavelength Selection	Monochromator
Bandwidth	4nm (230-285m), 8nm (<285m)
Measurement Range	0 to 4.0 OD
OD Accuracy	>1% at 2 OD typical
OD Precision	>0.5% at 2 OD typical
Fluorescence Polarization	
Wavelength Range	300-700nm (900nm option)
Wavelength Selection	Deep blocking bandpass filters/dichroic mirrors (top)
Sensitivity Top	5 mP at 1 nM fluorescein typical
Time Resolved Fluorescence	
Light Source	Xenon Flash Lamp
Wavelength Range	200-700nm (900nm option)
Wavelength Selection	Deep blocking bandpass filters/dichroic mirrors
Sensitivity Top	Europium 100 fM typical (10 amol/well in 384-well plate)
Dispensers	
Number of Injectors	2 syringe pumps
Dispense Volume	5-1000µL in 1µL increment
Dead Volume	1mL, 100µL with backflush
Speed (Minimum Kinetic Interval)	
96-well	11 seconds
384-well	22 seconds

Specifications subject to change

BioTek™ Synergy™ H4 Hybrid Microplate Reader

Combines two powerful detection systems, monochromator-based and filter-based, in one compact unit

Enjoy complete flexibilty and assay choice for current as well as future demands. Advanced multi-detection system is capable of performing an unlimited number of microplate-based assays.

- Hybrid Technology™: Synergy H4 combines the sensitivity of a filter-based system with the convenience of monochromator-based optics to provide the broadest range of applications available on the market today.
- Detection modes: Fluorescence Intensity, Time-Resolved Fluorescence, Fluorescence Polarization, AlphaScreen™/AlphaLISA, Luminescence, UV-Visible absorbance, FRET, TR-FRET, BRET, well area scanning and spectral scanning.
- Modular and upgradeable architecture: Read modes are available as individual modules for cost-effectiveness and peace of mind.
- Quadruple mono system and variable bandpass selection: Synergy H4 optics incorporates two double-grating monochromators. This quadruple design provides the best in spectral scanning performance and flexibility.
- Deep blocking filters and dichroic mirrors: Synergy H4's filter/dichroic combination provides the best possible performance in fluorescence, time resolved fluorescence and fluorescence polarization applications.
- Compatible with Take3 Plate with 2µL microspots: Enables low volume 260nm nucleic acid quantification

Synergy H4 Monochromator System

- Uses two double-grating monochromators with variable bandpass selection
- Highest stray light reflection, continuous wavelength selection and spectral scanning
- Combines high performance with convenience and flexibility

Detection Method	Mfr. No.	Cat. No.	Each
With Injectors			
Without Abs, Lum, FP or TRF	H4MFD	**BTH4MFD**	49,675.00
Absorbance	H4MFAD	**BTH4MFAD**	57,955.00
Absorbance, Fluorescence Polarization, Time-Resolved Fluorescence	H4MFPTAD	**BTH4MFPTAD**	74,515.00
Luminescence	H4MLFD	**BTH4MLFD**	55,190.00
Absorbance, Luminescence	H4MLFAD	**BTH4MLFAD**	63,475.00
Luminescence, Fluorescence Polarization, Time-Resolved Fluorescence	H4MLFPTD	**BTH4MLFPTD**	71,750.00
Absorbance, Luminescence, Fluorescence Polarization, Time-Resolved Fluorescence	H4MLFPTAD	**BTH4MLFPTAD**	80,035.00

Synergy H4 Filter/ Mirror System

- Delivers more energy to the sample and provides high signal-to-noise rations
- Faster read speed, more sensitivity, more precise control over optical parameters

CERTIFICATIONS:
CE marked, ETL Listed

BioTek Synergy H4

Specifications	
Excitation Range:	200–700nm
Emission Range:	300–700nm (800nm with red extended option)
Dynamic Range:	0–99,999 (fluorescence, luminescence); 0–4.0 O.D. (absorbance)
Absorbance Range:	230–999nm (1nm increments)
Accuracy:	±1% at 2 O.D., typical
Linearity:	P1% from 0–3.0 O.D., typical
Repeatability:	P0.5% at 2 O.D., typical
Bandpass:	2.4nm (absorbance)
Sensitivity:	2.5pg/mL SF, typical
Filter Wheel:	4-position wheel with four excitation filters (360/40, 485/20, 530/25, 590/20) and four emission filters (460/40, 528/20, 590/35, 645/40)
Detection Method:	Fluorescence intensity, time-resolved fluorescence, fluorescence, fluorescence polarization, AlphaScreen/AlphaLISA, luminescence, UV-visible absorbance, FRET, TR-FRET, BRET, well area scanning, spectral scanning
Read Methods:	Endpoint, kinetic, well-area scanning
Light Source:	Tungsten halogen and xenon flash
Interface Connections:	Bidirectional RS-232
L × W × H	17 × 20.9 × 15" (43.5 × 53.1 × 38.1cm)
Electrical Requirements	100–240V 50/60Hz

ON THE WEB...

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Visit www.fishersci.com and search for BioTek

BioTek™ Synergy™ HT Multidetection Microplate Readers

Integrated fluorescence, time-resolved fluorescence, absorbance and luminescence

Dual optics with monochromator wavelength selection provides the optimal illumination for each read made in one compact, affordable unit. Robot accessible carrier design makes this high throughput instrument compatible with most automated systems.

- Automatic top and bottom epifluorescence read modes optimized for both sensitive homogeneous and cell-based assays
- Compatible with Take3™ Micro-Volume Plate: sixteen 2 µL microspots for low volume DNA/RNA 260 nm measurements
- Saves precious samples, very fast and simple process
- Software-controlled automatic probe height adjustment with built-in plate sensor to prevent probe crashes
- Scanning monochromator for wavelength scans to identify peak absorbance and provide full spectral analysis
- Luminescence measurements with top detection for best sensitivity
- Reads 6- to 384-well microplate formats including PCR trays and Terasaki plates
- Well area scanning for popular cell-based assays
- Time-Resolved Fluorescence capability
- USB and serial ports for easy connectivity

INCLUDES: Four default excitation filters (360/40, 485/20, 530/25, 590/20), four default emission filters (460/40, 528/20, 590/35, 645/40), Gen5 software, serial cable (null modem, 9- to 25-pin female)

BT-SIAFR Series

NOTE: Default wavelength filters other than those listed can be specified at ordering.

CERTIFICATIONS: CE marked; ETL listed

Description	Mfr. No.	Cat. No.	Each
With time-resolved fluorescence capability and injectors	SIAFRTD	**BT-SIAFRTD**	28,950.00
With time-resolved fluorescence capability; without injectors	SIAFRT	**BT-SIAFRT**	21,950.00

BioTek™ ELx808™ Absorbance Microplate Readers

Store up to 55 user-programmable protocols

- Precise, accurate and repeatable units read 96-well microplates
- Readers can perform multiple assays per plate
- On-board diagnostic self-test may be used with an optional calibration test plate to easily confirm and document performance
- Kinetic rate, R^2, or onset time is reported without a PC
- Linear well scanning is ideal for agglutination assays
- Staggered optical design eliminates channel-to-channel crosstalk
- Reference channel rolls optical signal for uniform channel-to-channel signal
- Curve-fitting options include linear, 4-P, 2-P (logit/log), cubic, quadratic, cubic spline and point-to-point
- Measurements can be read in intervals as short as six seconds
- Additional data analysis options include cutoff formulas, endpoint and kinetic analysis
- Supplied with 4-Zone™ Temperature Control
- Extended dynamic range

Model ELx808

- Data analysis options include data transformation formulas, assay validation and control validation
- Optional 4-Zone Temperature Control improves reproducibility in enzyme kinetic reactions

Model	Wavelength Range	Temperature Control	Mfr. No.	Cat. No.	Each
ELx808	380 to 900nm	----	ELX808	**BTELX808**	6120.00
ELx808IU	340 to 900nm	From ambient 4° to 50°C	ELX808IU	**BTELX808IS**	7650.00

ORDERING INFORMATION: Optional Gen5™ Data Analysis Software (Mfr. No. GEN5) provides simple, fast data collection, calculation, exporting and reporting. Or select Gen5 Secure software to meet requirements of 21 CFR Part 11.

BTELX808 Series

INCLUDES: Filters, tungsten halogen light source, parallel printer cable, null modem serial cable and Gen5RC reader control software

CERTIFICATIONS: CE marked

Specifications	
Dynamic Range	0 to 4.0 O.D.
Accuracy	<1% at 2.5 O.D., <2% at 3.5 O.D.
Linearity	<1% at 2.5 O.D. (typical)
Repeatability	<0.5% at 2.5 O.D.; <1.5% at 3.5 O.D.
Bandpass	10nm (typical, filter dependent)
Read Method	Endpoint, kinetic, linear scanning
Reading Speed	96 wells in 12 seconds (single wavelength), 20 seconds (dual wavelength) or 6 seconds (kinetic single wavelength)
Shaking	Linear; low, medium, high and variable speeds
L × W × H	16 × 15.50 × 80.75" (40.6 × 39.4 × 22.2cm)
Filter Arrangement	6-position wheel; 340, 405, 450, 490 and 630nm supplied
Electrical Requirements	100–240VAC 50/60Hz

BioTek™ ELx800™ Absorbance Microplate Readers

Store up to 75 custom assay definitions and eight test results

BTELX800 Series

- Two 24-character LCD and convenient soft-keys for easy use
- Onboard data analysis offers extensive curve-fitting options: linear, cubic, quadratic, 4-P, log-logit, cubic-spline and point-to-point; plus endpoint and kinetic measurement
- Three modes of performance and optical specifications testing: optical self-test, a calibration test plate and a "wet test"
- Auto or manual plate layout for blanks, controls, standards and samples
- Compatible with optional Gen5™ software
- USB and RS232 ports for PC connection; parallel printer port
- ELx800 has 24-, 48- and 96-well microplate read modes
- ELx800UV contains optics to extend wavelength range down to 340nm

ORDERING INFORMATION: Optional Gen5 Data Analysis Software (Mfr. No. GEN5) provides simple, fast data collection, calculation, exporting and reporting. Or choose Gen5 Secure software to meet requirements for 21 CFR Part 11 (Mfr. No. GEN5SECURE). 100-240VAC 50/60Hz

INCLUDES: Gen5RC reader control software

CERTIFICATIONS: CE listed; ETL listed

Description	Spectrum Range	Microplate Capacity	Mfr. No.	Cat. No.	Each
Model ELx800	400 to 750nm	6-, 12-, 24-, 48-, 96-well	ELX800	**BTELX800**	5500.00
Model ELx800	340 to 750nm	6-, 12-, 24-, 48-, 96-well	ELX800UV	**BTELX800UV**	5805.00

BioTek™ Epoch™ Microplate Spectrophotometer

Offers budget-friendly, advanced detection capabilities

11-120 Series

The optical reader provides precise UV/Vis measurements in one compact, highly versatile unit. Available with or without Take3™ Multi-Volume Plate (1-120-571).

- 200 nm to 999 nm wavelength range, no filters required
- Take3 Multi-Volume Plate (11-120-571) compatible for low-volume nucleic acid quantification, BioCell™ or cuvet measurements
- Automated pathlength correction for direct quantification
- Xenon flash lamp lasts for life of instrument
- Robust housing design withstands heavy usage

Take3 and Take3 Trio Micro-Volume Plates

- Allows for low-volume, BioCell™ or cuvet measurements
- Microspots hold up to 16 or 48 (Trio) × 2µL samples for direct nucleic acid and protein quantification
- Two BioCell locations available for quick 1cm pathlength measurements
- One standard stoppered cuvet can also be accommodated
- Precision-crafted, stenciled fused silica plate provides easy maintenance and cleanup

ORDERING INFORMATION:
Can be purchased as part of the BioTek Epoch Micro-Volume Spectrophotometer System (12-566-805) with the Take3 Micro-Volume Plate accessory (11-120-571).

INCLUDES:
Gen5™ Microplate Data Analysis Software

COMPLIANCE:
EN61326-1:2006; EN61326-2-6:2006; EN61000-4-2; EN61000-4-3, EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61000-4-11

CERTIFICATIONS:
CE marked, NRTL Safety Agency

Description	Mfr. No.	Cat. No.	Each
Epoch Microplate Spectrophotometer	EPOCH	**11-120-570**	8950.00

Specifications	
Epoch Spectrophotometer	
Bandwidth	5nm
Wavelength	
Range	200 to 999nm, selectable in 1nm increments
Accuracy	±2nm
Repeatability	±0.2nm
Read Modes	Endpoint, kinetic, spectral scanning, well-area scanning
Absorbance Range	0 to 4.0 O.D.
Resolution	0.0001
Accuracy	0.0 to 2.0 O.D.: ±1% ±0.010 O.D. 2.0 to 2.5 O.D.: ±3% ±0.010 O.D.
Repeatability	0.0 to 2.0 O.D.: ±1% ±0.005 O.D. 2.0 to 2.5 O.D.: ±3% ±0.005 O.D.
Linearity [Photometric]	±0.0 to 2.0 O.D.: ±1% 0.010 O.D. 2.0 to 2.5 O.D.: ±3% ±0.010 O.D.
Speed	96-well normal: 49 sec. 96-well rapid: 38 sec. 96-well sweep: 15 sec.
Dimensions (W × D × H)	12.5 × 12 × 7.7" (31.7 × 30.5 × 19.5cm)
Weight	14 lb. (6.35kg)
Take3 Micro-Volume Plate (11-120-571, available separately)	
Sample Types	Microspots (up to 16 × 2µL samples); BioCells (2 locations for 1cm measurements); Standard Stoppered Cuvet (1)
Compatible Readers	Epoch, PowerWave™ XS2 and all Synergy™ Readers w/ Absorbance Detection
Sample Volume	Minimum 2µL
Optical Pathlength	0.5mm
Detection Limit	2ng/µL (dsDNA) typical
Gen5™ Software Interface	Pre-programmed protocols available in Gen5 Software

BioTek™ Eon™ Microplate Spectrophotometers

Filterless, continuous wavelength selection from 200 to 999nm

Accommodate a wide range of assay applications in the life science laboratory, from DNA, RNA and protein quantification to long-running kinetic assays with monochromator-based optics, extended incubation range, optimized shaking capability and optional cuvet port.

11-120-611 with 11-120-613 Take3 Trio Microplate

- Read 6- to 384-well microplate formats
- Optical system allows wavelength selection between 200 and 999nm in 1nm increments
- View peak sample wavelengths using a quick spectral scan in a cuvet or microplate well
- Multiple shake modes — choose orbital, double orbital or linear shaking with customizable shaking frequency and duration
- 4-Zone™ temperature control system, plus 65°C setpoint to expand range of applications
- Compatible with the Take3™ Micro-Volume plates for 2µL measurements
- Compatible with BioStack™ automation
- Software supports increased laboratory efficiency
- Logical interface for easy flow
- Intuitive design: StepWise™ protocol, powerful data reduction tools

APPLICATIONS: Nucleic acid quantification, protein quantification, micro-volume assays (with Take3), biofuel research applications, cell proliferation, cytotoxicity, ELISA, enzyme kinetics

INCLUDES: Gen5™ v 2.0 software

CERTIFICATIONS: CE and TUV marked

Specifications	
General	
Wavelength Selection	Monochromator
Read Method	Endpoint, kinetic, spectral scanning and well area scanning
Microplate Types	6- to 384-well plates
Temperature Control	Ambient +4° to 65°C
Shaking	Orbital, double orbital and linear
Software	Gen5 Data Analysis software
Automation	BioStack and 3rd party automation compatibility
Absorbance	
Light Source	Xenon flash lamp
Wavelength Range	200–999nm, selectable in 1nm increments
Bandpass	2.4nm
Dynamic Range	0.0–4.0 OD
OD Accuracy	0 to 2.0 OD ±1% ±0.010; 2.0 to 3.0 OD ±3% ±0.010
OD Linearity	0 to 2.0 OD ±1% ±0.010; 2.0 to 3.0 OD ±3% ±0.010
OD Repeatability	0 to 2.0 OD ±1% ±0.005; 2.0 to 3.0 OD ±3% ±0.005
Reading Speed	96 wells: 8 seconds; 384 wells: 13 seconds
Physical Characteristics	
Connectivity	USB for PC connection
Electrical Requirements	100–240VAC 50/60Hz
Dimensions, D × W × H	16 × 8.5 × 8.5" (40.6 × 21.6 × 21.6cm)
Weight	<24 lb. (<11kg)

Description	Mfr. No.	Cat. No.	Each
Without cuvet port	EON	**11-120-611**	13,905.00

BioTek™ Take3 and Take3 Trio Micro-Volume Microplates

Expand functionality of the BioTek microplate spectrophotometers, multi-mode and Hybrid readers, while reducing sample volumes, costs and time required for routine quantification

11-120-613

Measure up to 16 (Take3) or 48 (Take3 Trio) 2µL samples at a time without dilution or special treatment.

- Compatible with BioTek Eon™, Epoch™, Synergy™ and PowerWave™ XS2 spectrophotometers
- Includes Gen5™ software with pre-programmed micro-volume nucleic acid and protein quantification protocols
- Absorbance and fluorescence detection capability
- Easy maintenance: simply wipe-off sample locations
- Robust design
- Take3 Trio has two locations for BioCell™ measurements
- Read microspots, BioCells or standard cuvets

Take3 (11-120-571) offers:

- 16 microspots for 2µL samples; two locations for proprietary BioCell measurements (BioCell optional) and one location for standard cuvette measurements

Take3 Trio (11-120-613) offers:

- 48 microspots for 2µL samples; two locations for proprietary BioCell measurements (BioCell optional)

APPLICATIONS:
Nucleic acid and protein quantification, in-situ fluorometric protein quantification, 260/280 and 260/230 protein purity measurements, very low volume in-situ BCA assay, spectral scan of single or multiple low volume samples

Specifications	
General	
Capacity	Take3: 16 × 2µL samples; Take3Trio: 48 × 2µL samples
BioCell Capacity	2 BioCell
Use and Care	Take3/Take3Trio Plate sample surfaces are easily cleaned with laboratory wipes
Cuvet Capacity	Take3: 1; Take3Trio: n/a
Compatible Readers	BioTek Eon™, Epoch™, Synergy™, PowerWave™ XS2
Detection Method	Absorbance and fluorescence
Performance	
Optical Pathlength	0.5mm (nominal)
Detection Limit	2ng/µL dsDNA (spectrophotometric)
Gen5 Software Interface	Available in Gen5 v 2.0 with preprogrammed protocols for nucleic and protein quantification

Description	Mfr. No.	Cat. No.	Each
Take3 with 16 microspots for 2µL samples	TAKE3	**11-120-571**	2735.00
Take3 Trio with 48 microspots for 2µL samples	TAKE3TRIO	**11-120-613**	4730.00

Microplate Washers

Fisher Scientific™ Wellwash™ Microplate Washers

Easy-to-use microplate washers for ELISA applications

Easy and convenient to use

- Large color display and keyboard for easy use
- Clear display shows everything on one screen
- User interface is intuitive and allows protocols to be developed fast; software requires minimal training

Reliable and secure performance

- Unpressurized bottles are safe and secure to use
- Liquid level sensors provide security for both wash and waste bottles
- Automatic rinse and prime features assure safe performance
- Aerosol cover prevents aerosols of infectous diseases from spreading
- Plate sensor recognizes if plate is present

Optimal washing performance

- Sweep mode assures low residual volume, resulting in reliable results
- Adjustable parameters such as dispense and aspiration height and aspiration speed

Wellwash

- Washer 96-well plates; 1 wash bottle and 1 × 8-way head

Wellwash Versa

- USB flash memory stick transfers protocols between two or several washers, and facilitates update of software and downloading log files
- Specially designed wash is available for cell washing
- Double 2 × 8 and 2 × 12 wash heads, 1 × 16 wash head, plus two wash bottles and one rinse bottle, offer increased flexibility

APPLICATIONS:
ELISA-based assays, cell washing

INCLUDES:
1 × 2L wash bottle, 1 × 2L waste bottle, aerosol cover (Wellwash); 2 × 2L wash bottles, 1 × 2L rinse bottle, 1 × 4L waste bottle, aerosol cover (Wellwash Versa)

WARRANTY: 1 year **CERTIFICATIONS:** CE marked

14-430-200

Specifications	
Number of Wash Bottles	1
Wash Heads	1 × 8, 1 × 12
Plate Types	96-well plates
Data Connection	USB
Cell Washing	No
Bottles	No
Display	LCD Color Display, 4.3"
Wash Volume	50 to 1000µL
Prime Volume	50 to 100mL
Rinse Volume	50 to 100mL
Dispense Volume	50 to 400µL
Residual Volume	<1.5µL
Dimensions (W x D x H)	34.5 × 38.5 × 24cm (13.6 × 15.2 × 9.4")
Weight	9kg (20 lb.)

Description	Mfr. No.	Cat. No.	Each
Wellwash	5165020	**14-430-200**	5852.65
Wellwash Versa	5165030	**14-430-201**	8035.59

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BioTek™ 405™ Touch Microplate Washer

Configured with many options to meet myriad assay requirements

The 405 Touch Microplate Washer incorporates a state-of-the-art, high-resolution LED backlit touch screen user interface for intuitive and flexible onboard instrument control of 96- and 384-well microplate washing. A 5.7" graphical color display seamlessly guides users through protocol development, instrument maintenance and daily use at the touch of a finger. Two USB flash drive ports enable convenient file transfer, storage and operation. For those who prefer computer control or require 21 CFR Part 11 compliance, the 405 Touch can be controlled with optional Liquid Handling Control Software.

The 405 Touch is available in configurations for a range of workflow requirements maintaining all the features of BioTek's washers, including Dual-Action™ manifold, optimized cell washing and built-in ultrasonic cleaning.

- 96- and 384-well microplates
- Resistive touch screen display
- Supports all gloved environments
- Compatible with widest range in humidity levels
- May be operated with pointing devices
- Low power, green technology
- Context sensitive help system, complete with wash recommendations and diagrams
- Instructional videos
- Quick menu for priming, washing, and maintenance
- Predefined sample methods for easy operation
- Optional mouse control
- Automated internal 4-buffer switching
- Quick-change manifold designs
- Patented Dual-Action manifold
- Super low rates provide gentle dispense for non-disruptive cell washing
- Patent-pending Ultrasonic Advantage™
- Easy maintenance with selection of pre-programmed routines, ensuring trouble-free operation
- Multiple diagnostic sensors provide complete protection during unattended operations
- BioStack™ Microplate Stacker for walk-away automation of up to 50 ANSI/SBS standard height plates
- All washers vacuum filtration ready (accessory filtration modules sold separately)
- All washers biomagnetic separation ready (accessory magnets sold separately)

APPLICATIONS:
ELISA, MSD assays, HCS immune cytochemistry, FLIPR Ca2+ flux, Cell-based assays, Magnetic and polystyrene bead processing (gene expression assays, cytokine assays), ELISPOT assays

BT405TSU

Specifications	
Assays	ELISA, Cell-based assays (model dependent), Magnetic and polystyrene bead, Multiplex assays, Bead-based ELISAs, Filtration-to-waste processes
Manifold Types	96-well washing: 96-tube (8 x 12) manifold 96-/384-well washing: Dual-Action 96-tube (8 × 12) 384-well washing: Dual-Action 192-tube (16 × 12)
Washing Speed	Solid bottom plates: 3 asp./disp. cycles, 300µL/well, 96 wells, 96-tube manifold, final aspirate: <30s 3 asp./disp. cycles, 100µL/well, 384 wells, 96-tube manifold, final aspirate: <80s 1 asp./disp. cycle, 40µL/well, 384 wells, 192-tube manifold, final aspirate: <20s Filter bottom plates: Variable, based on wash parameters
Fluid Delivery	Internal positive displacement pump
Volume Range	25–3000µL/well (model dependent)
Buffer Selection	Automated internal switching of up to four wash buffers (model dependent)
Flowrates	1–11, includes low flow, cell wash rates (model dependent)
Wash Cycles	1–250
Dispense Precision	<3% CV (model dependent)
Residual Volume	Solid bottom plates: ≤2µL/well
Shaking	Programmable in minutes and seconds, up to 60 min. Intensities – slow, medium, fast or variable
Soak Time	Programmable in minutes and seconds, up to 60 min.
Electrical Requirements	100–240V, 50/60 Hz
Dimensions	17" × 14" × 10" (43.2 × 35.6 × 25.4cm)
Weight	With internal buffer switching – 36 lb. (16.5kg) Without internal buffer switching – 30 lb. (13.5kg)

96-/384-Well	384-Well	96-Well	Optimized Cell Washing	4-Buffer Switching	Ultrasonic Advantage	Mfr. No.	Cat. No.	Each
----	X	----	----	----	X	405TSHT	**BT405TSHT**	21,785.00
----	X	----	----	X	X	405TSHTV	**BT405TSHTV**	23,205.00
X	----	----	X	----	----	405TSU	**BT405TSU**	16,230.00
X	----	----	X	X	----	405TSUV	**BT405TSUV**	17,645.00
X	----	----	X	----	x	405TSUS	**BT405TSUS**	18,390.00
X	----	----	X	X	X	405TSUVS	**BT405TSUVS**	19,810.00
----	----	X	----	----	----	405TSR	**BT405TSR**	9620.00
----	----	X	----	X	----	405TSRV	**BT405TSRV**	11,035.00
----	----	X	----	----	X	405TSRS	**BT405TSRS**	11,780.00
----	----	X	----	X	X	405TSRVS	**BT405TSRVS**	13,200.00

BioTek™ EL406 Microplate Washer/Dispenser

Fast, full plate washing capability using patented Dual Action™ manifold

- Fast, full microplate washing, optimized for loosely adherent cell monolayers
- Up to three reagent dispensers with choice of either peristaltic pump or syringe drive technologies for different assay requirements 96-, 384- and 1536-well microplates
- Automates long and tedious assay liquid-handling processes
- Smaller benchtop or robotic system footprint compared to separate washer and three dispensers
- BioStack™ compatible for automated processing of up to 50 standard height microplates
- Full control with powerful Liquid Handling Control™ PC Software
- Optimized washing for loosely adherent cell layers
- Built-in, patent-pending Ultrasonic Advantage™ for unattended wash manifold maintenance
- Optional buffer switching of up to four buffers for complex wash routines

11-120-616

APPLICATIONS:
ELISA automation. MSD automation. High-content screening immunocytochemistry. Label-free cell-based assays — especially 1536-well density calcium flux assays. Magnetic and polystyrene bead assay automation for gene and protein expression

CERTIFICATIONS:
CE marked; ETL listed

Model	Mfr. No.	Cat. No.	Each
With one reagent dispenser			
With Wash Buffer switching; 96-tube manifold	406PUB1	**11-120-608**	34,070.00
With three reagent dispensers			
EL406	406PSUB1	**11-120-614**	39,580.00
With Wash Buffer switching, three reagent dispensers; 96-, 192-tube manifolds	406PSUB3	**11-120-616**	44,420.00
With Wash Buffer switching, 96-, 384- and 1536-tube manifolds	406PSUB3-LB	**B406PSUB3LB**	49,485.00

ON THE WEB...

Complete BioTek EL406 line available

Visit www.fishersci.com and search for BioTek EL406

Specifications	
Washing	
Manifold Type	96-well washing: 96-tube (8 × 12) manifold - 316 stainless-steel tubes; 96-/384-well washing: Dual-Action 96-tube (8 × 12) manifold - 316 stainless-steel tubes; 384-well washing: Dual-Action 192-tube (16 × 12) manifold - 316 stainless-steel tubes; 1536-well washing: Two 32-tube (1 × 32) dispense manifolds - sapphire-jeweled or 316 stainless-steel tubes 128-tube (4 × 32) aspiration manifold
Dispense Volume	25–3000µL/well (Selectable in 1µL increments 96- and 384-well washing)
Dispense Precision	≤3% CV
Residual Volume	P2 µL/well
Soak Time	Programmable in minutes and seconds, up to 60 min.
Washing Time	13 seconds, 300µL/well, 96-wells (96-tube manifold) 17 seconds, 100µL/well, 384-wells (192-tube manifold)
Dispensing	
Peristaltic pump	8-tip cassette (1 × 8) – sapphire-jeweled 316 stainless-steel, 316 stainless-steel or polypropylene plastic tips Volume Range 500 – 3000µL/well (model dependent) Selectable in 1µL increments
Syringe pump	Volume Range 3 – 3000µL/well (model dependent) Fluid delivery: Two positive-displacement syringe drives
General	
Microplate Types	96-, 384- and 1536-well (model dependent) Low profile and standard height Solid and filter bottom (optional)
Shake	Programmable in minutes and seconds, up to 60 minutes. Intensities: slow, medium, fast or variable.
Interfaces	Liquid Handling Control (included), for PC wash and/or dispense protocol programming. EL406 Interface Software (included), for robotic system integration.
Electrical Requirements	100-240V 50/60Hz
L × W × H	18 × 16.5 × 12.5" (46 × 42 × 31.8cm)

BioTek™ ELx405™ Select Deep-Well Microplate Washer

World's first deep well microplate washer that aspirates and dispenses into 96- and 384-well plates <50mm in height

Installed on a lab bench or integrated within a robotic system, the ELx405 Select lowers background values and increases important signal-to-noise ratios.

- Accommodates 96- and 384-deep well microplates as well as ANSI/SBS standard and deep-well plates ≤50mm
- Polystyrene and magnetic bead assays along with standard ELISAs
- Patented Dual-Action™ manifold provides independent control of the aspirate and dispense manifolds for precise overfill washing and overflow protection
- Internal positive displacement pump eliminates the use of troublesome pressure delivery systems and allows the use of any size dispense reservoir
- Built-in priming trough allows automatic manifold priming and rinsing during both operation and maintenance modes and eliminates the need for blank plates when used in automated robotic systems
- Fully variable dispense volumes, flow and aspiration rates provide total control of the washing cycles from a gentle cell-washing application to vigorous wash for high-binding assays
- Built-in fluid flow, fluid detection and vacuum sensing provide complete protection for unattended operation
- BioStack™ compatible for automated washing of up to 50 ANSI/SBS standard height microplates
- Compatible with Liquid Handling Control Software for additional flexibility

APPLICATIONS:
ELISAs, MSD assays, HCS immune cytochemistry, FLIPR Ca^+ flux, Cell-based assays, Magnetic and polystyrene bead assays, Gene expression assays, Cytokine assays, ELISPOT assays, Plasmid DNA purification, Serum/plasma sample preparation, Cell signaling – phospho flow setup for flow cytometry

CERTIFICATIONS:
CE and ETL marked

ELx405 Microplate Washer

Description	Mfr. No.	Cat. No.	Each
Deep well; Biomagnetic separation	ELX405UD	**ELX405UD**	16,580.00
Deep well; Buffer switching; Biomagnetic separation	ELX405UVD	**ELX405UVD**	18,045.00
Deep well; Ultrasonic; Biomagnetic separation	ELX405USD	**ELX405USD**	18,810.00
Deep well; Buffer switching; Ultrasonic	ELX405UVSD	**ELX405UVSD**	20,275.00
Deep well; Cell washing; Biomagnetic separation	ELX405UCWD	**ELX405UCWD**	17,245.00
Deep well; Cell washing; Ultrasonic; Biomagnetic separation	ELX405UCWSD	**ELx405UCWSD**	19,470.00
Deep well; Cell washing; Buffer switching; Biomagnetic separation	ELX405UCWVD	**ELX405UCWVD**	18,705.00
Deep well; Cell washing; Buffer switching; Ultrasonic; Biomagnetic separation	EX405UCWVSD	**EX405UCWVSD**	20,935.00

Specifications	
General	
Shaking	Programmable in minutes and seconds, up to 60 minutes; slow, medium, fast or variable intensities
Soak Time	Programmable in minutes and seconds, up to 60 minutes
Safety/Convenience/Maintenance	Waste/vacuum sensing; fluid/flow detection; aerosol cover; adjustment utility for plate positioning; overflow protection; pre-programmed maintenance routines
Software/Display	2 × 24 character backlit LCD display; 25 alphanumeric soft keys; create, edit or run protocols
Operating Temperature	15° to 30°C (59° to 86°F)
Humidity	10% to 80%, noncondensing
Electrical Requirements	100–240VAC 50/60Hz, <8.0A
Manifold Types	96-/384-well-washing: Dual Action 96-tube (8 × 12) manifold
Fluid Delivery	One positive displacement pump
Volume Range	25–3000µL/well (model dependent); selectable in 1µL increments
Buffer Selection	Automatic switching for up to four wash buffers (model dependent)
Flow Rates/Wash Cycle Rates	Built-in ultrasonic bath for protein and salt crystal buildup; programmable up to 60 minutes (model dependent)
Dispense Precision	≤3% CV (model dependent)
Residual Volume	≤2µL/well
Ultrasonic Cleaning	Built-in ultrasonic bath for protein and salt crystal buildup; programmable up to 60 minutes (model dependent)
Physical Characteristics	
Dimensions	17 × 14 × 10" (43.2 × 35.6 × 25.4cm)
Weight	30 lb. (13.5kg)

BioTek™ ELx50™ Microplate Strip Washer

Syringe-drive fluid delivery system for precise control

BT-ELX50 Series

Key Features

- Washes single strips or full plates
- Efficient washing ensures low background absorbance and small residue volumes
- Self-contained and programmable
- Micro-controlled, syringe-drive positive-displacement pump fluid delivery system for precise control
- Biomagnetic separation and vacuum filtration options available
- Safety features include aerosol cover, built-in decontamination routine, and isolation of electronics from fluidics
- Biomagnetic separation and vacuum filtration options available
- Choice of 8-, 12- or 16-channel manifold models
- Optional switching of up to 3 wash buffers

APPLICATIONS:
Suitable for EIA, fluorescence, chemiluminescence, RIA, DNA probe and cellular assays

INCLUDES:
QC report and performance verification data sheet; Aerosol cover; Built-in pumps; Accessory package including bottles, tubing and maintenance kit

CERTIFICATIONS:
CE listed; ETL listed

Description	Mfr. No.	Cat. No.	Each
Standard Washer			
8-Well Strip	ELX50/8	**BT-ELX508**	5635.00
12-Well Strip	ELX50/12	**BT-ELX5012**	5635.00
Washer with Valves and Automatic Buffer Switching			
8-Well Strip	ELX50/8V	**BT-ELX508V**	7000.00

Specifications	
Accommodates	8-well models accept all 96-well plates, 1 × 8 strips 12-well models accept all 96-well plates, 1 × 12 strips 16-well models accept all 384- or flat bottom 96-well plates, 1 × 8 flat-bottom strips
Manifold Type	8-, 12-, or 16-channel
Residual Volume	P2µL/well
Variable Fluid Flowrates	150 to 1000µL/well/sec.
Soak Times	1 to 600 sec.
Dispense Volumes	25 to 3000µL/well
Wash Cycles	1 to 10
Display	2 × 24-character LCD
Software	Field upgradable
User-programmable protocols	75
Functions	Wash, prime, dispense, aspirate, rinse, maintenance routines
Interface	RS-232
Net Weight	20 lb. (8.9kg)
Dimensions (L × W × H)	16 × 14 × 6.50" (40 × 35 × 16.25cm)
Electrical Requirements	100–250VAC 50/60Hz

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To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

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Prices subject to change.

Microplate Dispensers

BioTek™ Precision™ XS Microplate Sample Processor

Four liquid transfer technologies in one instrument

Combines a single-channel pipetting/dispense head, an 8-channel pipetting head and an 8-channel bulk reagent dispenser in one compact unit.

Specifications	
Accommodates	Any test tube, microplate (up to 384-well), or reservoir
Precision	P1%[1]
Accuracy	P1.5%[1]
Single-channel	P22 minutes to aspirate/dispense; 100µL per well of fluid to all wells of a standard 96-well microplate <4 minutes for dispense only
8-channel	P3 minutes to aspirate/dispense; 100µL per well of fluid to all wells of a standard 96-well microplate <14 seconds for dispense only
Pipet Type	Single- (5µL–200µL) or 8-channel (1µL–120µL)
Dispenser Type	Single- (5µL–10mL) or 8-channel (10µL–10mL)
Supply Bottle Volume	Single-channel, 125mL; 8-channel, 1L
Dimensions (L × W × H)	15D × 21W × 16"H (375 × 525 × 400mm)
Instrument only	16 × 21 × 16" (41 × 53 × 41cm)
Electrical Requirements	100 to 240VAC 50/60Hz, ≤0.7A

[1]When pipetting/dispensing 100µL per well of deionized water with 0.1% Tween™ 20 with FD&C No. 1 blue dye

BT-PRC3841 Series

Key Features

- Affordable alternative to high-end liquid handlers
- User-configurable, multi-station platform provides flexible experiment design
- Intuitive Precision Power™ PC software simplifies programming of applications from hit-picking to multi-well serial dilutions
- Compatible with a variety of labware including test tubes, reagent reservoirs and microplates
- Volume ranges from 1µL
- Fits into most biological safety cabinets and chemical fume hoods

Description	Mfr. No.	Cat. No.	Each
Single- and 8-channel pipets w/Precision Power software	PRC3841	**BT-PRC3841**	31,360.00
Single- and 8-channel pipets w/ autoclavable bulk reagent dispenser and Precision Power software	PRC3841M	**BT-PRC3841M**	35,365.00

Biotek™ MultiFlo FX Microplate Dispenser

Modular and automated for 6- to 1536-well plates offering Parallel Dispense™ technology

MultiFlo FX is a fully modular, automated reagent dispenser for 6- to 1536-well plates offering BioTek's unique Parallel Dispense™ technology — both peristaltic and syringe pump operation down to 500nL. An available microplate wash module adds multi-purpose functionality. A fully configured MultiFlo FX replaces up to five liquid handlers.

BTMFX

- Four independent reagents can be dispensed in parallel without potential carryover
- Parallel Dispense technologies: Choice of peristaltic or syringe pump
- Onboard computer with two USB flash drive ports for file transfer, storage and operation
- Small footprint allows the usage in biosafety cabinet or integrated into an automated robotic system
- Programmable functions and values displayed via touch screen user interface
- Compatible with wide range of plate formats up to 50mm in height
- Operating Temperature: 15° to 35°C (59° to 95°F)

MFX:

- Base unit, unconfigured

MFXP:

- With one peri-pump dispenser
- Manifold Types: 8-tip cassette (1 × 8)
- Volume Range: 500nL to 3,000µL/well
- Flow Rates: Low, medium or high
- Cassette Size: 1, 5 and 10µL

MFXW:

- With wash module (include 96/384 wash manifold)
- Manifold Types: 96-well washing (8-tube (1 × 8) manifold; 12-tube (1 × 12) manifold; 96-/384-well washing (Dual-Action 16-tube (1 × 16) manifold)
- Volume Range: 20-30,000µL/well
- Flow Rates: 1 to 9
- Wash Cycles: 1 to 10

MFXPW:

- One peri-pump dispenser
- Wash module

ORDERING INFORMATION: Base Instrument. Dimensions: D × W × H: 10.6 × 16.1 × 7.6" (26.9 × 40.9 × 19.3cm)

CERTIFICATIONS: CE marked; TUV

Description	Mfr. No.	Cat. No.	Each
Base unit; Unconfigured	MFX	**BTMFX**	9365.00
With one peri-pump dispenser	MFXP	**BTMFXP**	13,610.00
With wash module	MFXW	**BTMFXW**	13,365.00
With one ne peri-pump dispenser and wash module	MFXPW	**BTMFXPW**	17,610.00
Accessories for MultiFlo FX Microplate Diepersers			
2 x 8 Manifolds	7180560S	**BT7180560S**	630.00
Reagent bottle; 1L	7140511	**BT7140511**	100.00

BioTek™ MicroFill™ 96-/384-Well Microplate Dispenser

Standard and autoclavable models provide accurate and precise dispensing without time-consuming recalibration and maintenance

BT-AF1000A

Reliable, economical dispensing unit incorporates a microprocessor-controlled syringe pump for optimal performance. Dispense flowrates are user controlled, allowing low- to high-velocity dispensing for any application. Robot-compatible carrier accommodates 24-, 96- or 384-well microplates in standard or deep-well formats. Small footprint allows easy fit within a laminar flow cabinet.

Key Features

- Volume range is selectable in 1µL increments from 5 to 6000µL per well
- 20µL can be dispensed into a 384-well plate in 12 seconds; into a 96-well plate in four seconds
- Multilanguage memory stores up to 75 programs at the touch of a button
- User interface has 2 × 24 LCD character screen, 25 alphanumeric soft keys

Model BT-AF1000A

- Includes autoclavable fluid path for guaranteed sterility

INCLUDES:
16-channel manifold for 96- and 384-well microplates, aerosol cover and priming trough self-draining kit

Specifications	
Accommodates	24-, 96- and 384-well standard and deep-well microplates; 1 × 8 and 1 × 16 microstrips; flat, U-bottom and V-bottom microwells
Volume Range (selectable in 1µL increments)	384-well plates, 5 to 1500µL per well 96-well plates, 10 to 3000µL per well 24-well plates, 20 to 6000µL per well
Dispense Precision	≤5% CV typical at 5µL ≤2.5% CV typical at 20µL ≤1% CV typical at 100µL
Dispense Accuracy	±1µL typical at 5µL ±1µL typical at 20µL ±1% typical at 10µL
Net Weight	20 lb. (8.9kg)
Dimensions (L × W × H)	18 × 15 × 7" (46 × 38 × 18cm)
Electrical Requirements	100–250VAC, 50/60Hz, 40A

Description	Mfr. No.	Cat. No.	Each
MicroFill Autoclavable Microplate Reagent Dispenser	AF1000A	**BT-AF1000A**	9315.00

BioTek™ BioStack™ Automated Microplate Stackers

Compact and versatile microplate stacker compatible with BioTek's washers, dispensers, detectors and imaging systems

Offer rapid plate exchange speeds to increase throughput and enhance productivity, for workflows with and without plate lids.

- P10 seconds plate exchange time
- Range of formats including 24-, 48-, 96-, 384- and 1536-well
- 10, 30, or 50 standard height microplates per interchangeable stack
- Rotational gripper for ergonomic and compact integration
- Restacking capability
- Direct control through washer and dispenser interface or via LHC™ or Gen5™ PC software
- Small footprint conserves precious bench top space
- Walk away automation
- Optional barcode scanner
- Available with 10, 30 or 50 microplate storage stacks, all removable and interchangeable to accommodate individual throughput needs
- Maximum plate height of 24- and 48-well plates is 22mm
- With de-lidding and re-lidding of microplates up to 22mm tall
- Processing speed (plate exchange time) is P20 seconds (with de-lidding) and P12 seconds (without lids)

BTBIOSTACK4

INCLUDES:
One instrument integration kit, Communication cable, Operator manual, Microplate pedestal for storage stack loading and unloading and Maintenance kit

CERTIFICATIONS: CE marked; ETL listed

Holds No. of Microplates	Mfr. No.	Cat. No.	Each
Up to 30 plates	BTBIOSTACK4	**BTBIOSTACK4**	18,000.00

BioTek™ Microplate Washer Complete Dispense/Waste Systems

Various systems available for use with microplate washers

BioTek Complete Dispense/ Waste Systems

For use with	Includes	Mfr. No.	Cat. No.	Each
Complete Dispense/Waste System				
EL 406, ELx405, 405 LS, 405 Touch microplate washers	4L bottles	7100746	**BT7100746**	1431.62
Complete Dispense/High Flow Waste System				
405 LS and 405 Touch microplate washers	4L bottles	1170532	**BT1170532**	4765.00
405 LS and 405 Touch microplate washers	10L bottles	1170533	**BT1170533**	5200.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Microplates

Assay Plates

96-Well

Fisherbrand® 96-Well Plates

For EIA and other applications

21-377-204

- Clear polystyrene
- Results with CV of <5% between wells and replicate values within ±10% of the mean
- Background of wells is within 0.005 absorbance units from mean
- Small lip at each well top and ridges between wells prevent well-to-well contamination
- Flat well bottom surface provides greater area for binding
- Rows and columns are labeled alphanumerically; plates stack for easy storage
- Specially treated to ensure high binding of hydrophobic or partially hydrophobic molecules like viral antigens and proteins

ORDERING INFORMATION:
Nonsterile microplates are supplied in bulk packs of 50 plates. Sterile microplates come individually wrapped with lids in packs of 40 plates.

CERTIFICATIONS:
Cat. No. 21-377-203 is supplied with a certificate attesting to its high-binding capabilities.

Well Volume	Sterile	Certified	Cat. No.	Case of
450µL	Yes	No	**21-377-205**	40/291.50
450µL	No	Yes	**21-377-203**	50/225.50
450µL	No	No	**21-377-204**	50/236.50

Fisherbrand® 96-Well Polystyrene Plates

Ideal for antibiotic screens, cell-based assays and screening compounds

12-565-501

Designed for compatibility with automated equipment.

- Plates stack easily with or without lids
- Available in flat or round well shapes
- Nonsterile
- Untreated, provides uniform surface properties
- Use 12-565-511 lid (sold separately)

Description	Cat. No.	Case of
Round bottom; Clear; Without lid	**12-565-500**	80/169.60
Flat bottom; Clear; Without lid	**12-565-501**	80/176.50
Flat bottom; White; Without lid	**12-566-619**	180/495.50
Flat bottom; Black; Without lid	**12-566-620**	180/454.00
Round bottom; Clear; Without lid	**12-566-622**	180/264.50

Thermo Scientific™ Immuno Breakable Modules, Clear

Facilitate single-format diagnostic assays from large-scale screening to single-well tests

Choose between LockWell, BreakApart and Breakable 1 × 8 modules in standard 96-well frames.

- For solid phase immuno assays, e.g. ELISA
- Free-standing modules are easy to handle
- Alphanumeric system for easy orientation
- Fit standard equipment
- Polystyrene

Choice of Surface

- PolySorp™ for adsorption of hydrophobic molecules
- Medisorp™ is slightly hydrophilic and binds a diverse range of biomolecules
- MaxiSorp™ is hydrophilic and ideal for antibody sandwich assays
- MultiSorp™ is very hydrophilic and works well for glycans and water soluble proteins

Immuno Breakable Modules Clear

Well Design	Surface	Max. Working Volume	Total Volume	Certified	Mfr. No.	Cat. No.	Case of 60
C8 LockWell	PolySorp	350µL	350µL	No	446442	**22-047-027**	524.00
C8 Breakapart	PolySorp	350µL	350µL	No	473539	**12-565-133**	737.00
C8 LockWell	MediSorp	350µL	350µL	Yes	446470	**12-565-732**	534.05
C8 LockWell	MaxiSorp	350µL	350µL	Yes	446469	**22-047-028**	544.77
C8 Breakapart	MaxiSorp	350µL	350µL	Yes	473768	**12-565-134**	730.50
C8 LockWell	MultiSorp	350µL	350µL	No	446490	**14-962-20**	561.00

Thermo Scientific™ Nunc™ MicroWell™ 96-Well Optical-Bottom Plates with Polymer Base

Optimum clarity for viewing well contents

White or black polystyrene upper structure with polymer or coverglass bottom plates combine the optical clarity of virgin crystalline polystyrene with optimal surface for a wide range of HTS applications.

- Background, autofluorescence and crosstalk are improved when you use Nunc Black or White microplates
- Black microplates are recommended for fluorescence measurements; with minimum back-scattered light and background fluorescence
- White microplates are recommended for luminescence measurements; with maximum reflection and minimal autoluminescence
- Available in black for fluorescence assays or white for luminescence and fluorescence assays; both with clear bottoms
- Polymer base plate
- Working range, 50-200µL/well
- Customized bar coding is available

12-566 and 12-565 series

ORDERING INFORMATION:
Cat. Nos. 12-565-910, 12-565-909, 12-565-903 and 12-565-902 are produced in a clean environment.

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Surface	Color	Total Volume µL/well	Sterile/Lid	Units per Pk./Cs.	Mfr. No.	Cat. No.	Case of
Cell Culture	White	400µL	Yes/Yes	10/30	165306	**12-566-71**	30/270.50
Cell Culture	Black	400µL	Yes/Yes	10/30	165305	**12-566-70**	30/270.50
Collagen I	White	400µL	----/Yes	5/20	152040†	**12-565-910**	20/416.50
Collagen I	Black	400µL	----/Yes	5/20	152036†	**12-565-909**	20/416.50
Poly-D-Lysine	White	400µL	----/Yes	5/20	152028†	**12-565-903**	20/206.00
Poly-D-Lysine	Black	400µL	----/Yes	5/20	152037†	**12-565-902**	20/206.50

†Produced in a clean environment

Thermo Scientific™ Nunc™ 96-Well Polystyrene Conical Bottom Microwell Plates

- Clear polystyrene has excellent optical properties making it ideal for optical measurements
- Plates are optimized for robotics, plate readers and liquid handlers
- Customized bar coding is available

12-565 Series

Sterile	With Lid	Units per Pk/Cs	Mfr. No.	Cat. No.	Case of
Yes	No	1/50	249662	**12-565-215**	50/204.00
No	No	10/180	249570	**12-565-216**	180/440.00
Yes	Yes	10/160	249952	**12-565-460**	160/699.50
Yes	Yes	10/80	249935	**12-565-481**	80/343.50
Yes	No	10/80	249940	**12-565-487**	80/297.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nunc™ MicroWell™ 96-Well Microplates

- Clear polystyrene has excellent optical properties making it ideal for optical measurements
- Untreated polystyrene is hydrophobic and is suited for growth of suspension cultures that can proliferate and grow without attachment
- Cell culture treated: The Nunclon™ Delta cell culture treated surface is a hydrophilic surface that promotes cell attachment and growth
- Plates are optimized for robotics, plate readers and liquid handlers

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

MicroWell 96-Well Plates

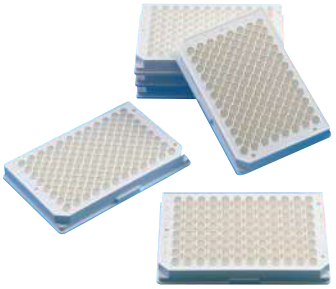
Surface	Sterile	With Lid	Units per Pk/Cs	Mfr. No.	Cat. No.	Case of
Cell Culture	Yes	Yes	10/160	161093	**12-565-383**	160/207.00
Cell Culture	Yes	No	1/50	168055	**12-565-64**	50/151.70
Cell Culture	Yes	Yes	1/50	167008	**12-565-66**	50/439.00
Collagen I	----	Yes	5/20	152038	**12-565-908**	180/454.50
Non-Treated	Yes	No	1/50	269787	**12-565-210**	50/210.00
Non-Treated	No	No	5/60	269620	**12-565-226**	60/151.70
Non-Treated	Yes	Yes	25/100	266120	**12-566-202**	100/439.00
Non-Treated	No	No	10/180	260836	**12-565-361**	180/454.00
Non-Treated	No	No	10/180	260844	**12-565-362**	180/648.50
Non-Treated	Yes	Yes	10/180	260860	**12-565-363**	160/683.00
Non-Treated	Yes	Yes	10/160	260887	**12-565-364**	160/775.50
Non-Treated	No	Yes	10/160	260895	**12-565-365**	160/509.00
Non-Treated	Yes	Yes	6/108	243656	**12-565-311**	108/472.00
Poly-D-Lysine	----	Yes	5/20	152039	**12-565-901**	20/228.50
UpCell	Yes	Yes	1/8	174897	**03-150-018**	8/354.50

Thermo Scientific™ Nunc™ F96 MicroWell Black and White Polystyrene Plate

Emit minimum autoluminescence and autofluorescence while providing maximum reflection

- Background, autofluorescence and crosstalk are improved when you use Nunc Black or White microplates
- Black microplates are recommended for fluorescence measurements; with minimum back-scattered light and background fluorescence
- White microplates are recommended for luminescence measurements; with maximum reflection and minimal autoluminescence
- Working volume range: 50 to 250µL/well
- Choice of Nunclon Delta surface for cell-based assays
- Customized bar coding is available

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).



12-566-00

Surface	Color	Sterile	With Lid	Units per Case	Mfr. No.	Cat. No.	Case of
Cell Culture	White	Yes	Yes	1/50	136101	**12-566-00**	50/298.50
Cell Culture	White	Yes	Yes	10/160	136102	**12-566-26**	160/855.50
Cell Culture	Black	Yes	Yes	1/50	137101	**12-566-07**	50/293.00
Cell Culture	Black	Yes	Yes	10/160	137103	**12-566-08**	160/854.00
Non-treated	White	Yes	Yes	1/50	236105	**12-566-02**	50/261.50
Non-treated	White	No	No	10/180	236108	**12-566-04**	180/811.00
Non-treated	Black	Yes	Yes	1/50	237105	**12-566-09**	50/261.50
Non-treated	Black	Yes	Yes	10/160	237107	**12-566-22**	160/809.77
Non-treated	Black	No	No	10/180	237108	**12-566-23**	180/809.50

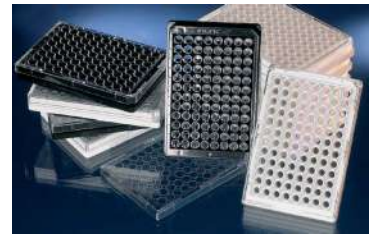
Thermo Scientific™ Nunc™ 96-Well Polystyrene Round Bottom Microwell Plates

- Clear polystyrene has excellent optical properties making it ideal for optical measurements
- Untreated Polystyrene is hydrophobic and is suited for growth of suspension cultures that can proliferate and grow without attachment
- Untreated surfaces are ideal for adding coatings in your lab
- Cell Culture Treated: The Nunclon™ Delta cell culture treated surface is a hydrophilic surface that promotes cell attachment and growth
- Plates are optimized for robotics, plate readers and liquid handlers
- Customized bar coding is available

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Surface	Sterile	With Lid	Mfr. No.	Cat. No.	Case of
Non-Treated	Yes	No	262162	**12-565-212**	50/204.00
Non-Treated	No	No	262146	**12-565-213**	135/333.00
Non-Treated	No	No	268152	**12-565-214**	180/443.00
Non-Treated	Yes	Yes	268200	**12-565-331**	160/699.00
Cell Culture	Yes	Yes	168136	**12-565-720**	160/780.50

Thermo Scientific™ Nunc™ MicroWell™ 96-Well Optical-Bottom Plates with Coverglass Base



12-566-35, 12-566-37

Provide optimum clarity for viewing well contents

Nunc Microwell 96-well optical-bottom plates have white or black upper structure with coverglass bottom for minimum light scatter and low auto-fluorescence, ensuring accurate results due to higher signal-to-noise ratios.

- Background, autofluorescence and crosstalk are improved
- Black microplates are recommended for fluorescence measurements; with minimum back-scattered light and background fluorescence
- White microplates are recommended for luminescence measurements; with maximum reflection and minimal autoluminescence
- Polystyrene upper structures (available in white or black) with either a #1.5 cover glass or polystyrene base
- Culture area, 0.32cm^2
- Cell culture surface is ideal for cell-based assays
- CC^2 surface modification closely mimics Poly-D-Lysine and is superior for attachment and growth of fastidious cells
- Customized bar coding available

COMPLIANCE: All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Surface	Color	Mfr. No.	Cat. No.	Pack of 6
Cell Culture	Black	164588	**12-566-35**	1371.00
Cell Culture	White	164590	**12-566-37**	1371.00
CC^2	Black	160376	**12-565-607**	1909.00

Thermo Scientific™ Nunc™ FluoroNunc™/LumiNunc™ 96-Well Plates

FluoroNunc Plates

Ideal for fluoroimmunoassay (FIA) and immunofluorometric assay (IFMA) techniques

- Plate has SBS footprint — fits standard equipment
- Available with flat-bottom or C-shaped wells
- Offered as black, white or clear plates
- Certified binding homogeneity/reproducibility

Choice of Surface

- PolySorp — Hydrophobic surface that preferentially binds biomolecules that have hydrophobic domains
- MaxiSorp — Hydrophilic surface that is optimized for binding IgG and also displays increased binding of many other proteins and biomolecules that possess hydrophilic/hydrophobic character. Available with or without lot specific performance testing via an IgG binding assay (Well to Well %CV less than 5% for clear plates and less than 10% for colored plates). Tested items come with a certificate

White

- Gives maximum reflection
- Minimum autofluorescence and autoluminescence

Black

- Minimizes background in fluorescence reading
- Minimizes back-scattered light
- Minimizes crosstalk

Clear

- For time-resolved fluorescence

CERTIFICATIONS:
Cat. No. 12-565-290D is certified for the absorption of IgG; well to well %CV of less than 5%. Cat. Nos. 12-566-24 and 12-565-290A are certified for the absorption of IgG; well to well %CV of less than 10%.

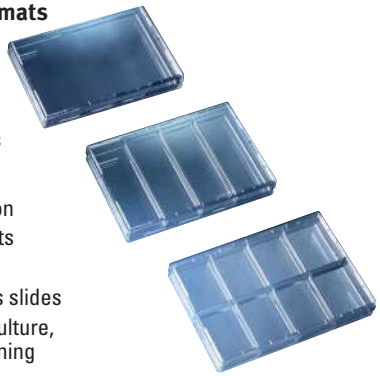
Color	Well Shape	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of
Non-treated							
Black	Flat-bottom	400µL	Yes	Yes	237105	**12-566-09**	50/261.50
Black	Flat-bottom	400µL	Yes	Yes	237107	**12-566-22**	160/809.77
Black	Flat-bottom	400µL	No	No	237108	**12-566-23**	180/809.50
MaxiSorp							
White	C-shaped	350µL	No	No	437796	**12-565-290A**	60/365.00
Clear†	C-shaped	350µL	No	No	437958	**12-565-290D**	60/370.00
Black	Flat-bottom	400µL	No	No	437111	**12-566-24**	80/456.00
Cell Culture							
Black	Flat-bottom	400µL	Yes	Yes	137101	**12-566-07**	50/293.00
Black	Flat-bottom	400µL	Yes	Yes	137103	**12-566-08**	160/854.00
PolySorp							
Black	Flat-bottom	400µL	No	No	437112	**12-566-30**	80/428.50
White	C-shaped	350µL	No	No	437842	**12-565-290B**	60/344.50

† With certificate.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nunc™ Dishes, Rectangular

Feature 1-, 4-, or 8-well formats



12-565-493

1-Well Format

- Convenient plate format for cell culture
- HTS Petri dish applications

4- and 8-Well Formats

- Assay compartmentalization
- Probe multiple gene subsets
- Wash Western blot strips
- 4-well dish holds four glass slides
- Useful in all areas of cell culture, including scale-up and cloning

ORDERING INFORMATION: Customized bar coding is available.

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI)™ (ANSI/SBS 1-2004).

Total Vol µL/ well	Wells	Packaged as	Mfr. No.	Cat. No.	Case of 100
90µL	1	10/100	267060	**12-565-493**	441.00
22µL	4	10/100	267061	**12-565-495**	464.50
11µL	8	10/100	267062	**12-565-497**	475.50

Corning™ 96-Well Clear-Bottom Nonbinding Surface (NBS™) Microplates

For top- and bottom-readings

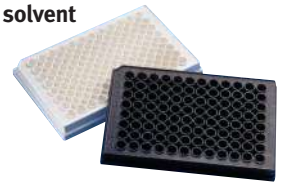
07-200-778 (top, not included), 07-200-732

- Ideal for homogenous assays such as Scintillation Proximity Assays (SPA) and fluorescent assays
- Modified polymer surface is nonionic hydrophilic, minimizing bio-interaction within wells to reduce nonspecific binding and reagent costs
- Significantly reduces protein and nucleic acid binding to polymers, maintains enzyme activity and inhibits adhesion of a number of cell lines
- Stable to aqueous solutions containing EtOH
- Use at temperature range of 4° to 37°C (39° to 99°F)
- Flat-bottom wells
- Compatible with a wide range of plate readers, liquid handlers and robotic systems

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 100
Clear bottom	360µL	No	No	3651	**07-200-770**	1001.00
Clear bottom	360µL	No	No	3604	**07-200-732**	1004.00

Corning™ Black and White 96-Well Polypropylene Assay Plates

Lower compound sticking and higher solvent resistance than polystyrene plates



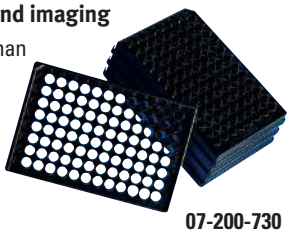
07-200-761, 07-200-762

- Ideal for fluorescence and luminescence assays and for compound storage
- Round-bottom wells
- Untreated surface

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 100
Black	360µL	No	No	3356	**07-200-762**	436.67
White	360µL	No	No	3355	**07-200-761**	450.00

Corning™ 96-Well Special Optics Low Fluorescence Assay Plates

Ideal for spectroscopy, polarization, and imaging



07-200-730

- Clear well bottoms are 60% thinner than conventional plates for direct viewing from either top or bottom
- Black opaque walls emit minimal background for sharp, clear images of fluorescent cells
- Available untreated or with tissue culture-treated surfaces

Surface Treatment	Lid	Sterile	Mfr. No.	Cat. No.	Case of
Untreated	No	No	3615	**07-200-730**	100/1060.00
Tissue Culture	No	Yes	3720	**07-200-805**	25/293.00
Tissue Culture	No	Yes	3614	**07-200-729**	100/1116.00

Corning™ 96-Well Nonbinding Surface (NBS™) Microplates

Enhanced signal-to-noise ratio

07-200-731

- Ideal for homogenous assays such as Scintillation Proximity Assays (SPA) and fluorescent assays
- Modified polymer surface is nonionic hydrophilic, minimizing bio-interaction within wells to reduce nonspecific binding and reagent costs
- Significantly reduces protein and nucleic acid binding to polymers, maintains enzyme activity, and inhibits adhesion of a number of cell lines
- Stable to aqueous solutions containing EtOH
- Use at temperature range of 4° to 37°C (39° to 99°F)
- Flat-bottom wells
- Compatible with a wide range of plate readers, liquid handlers and robotic systems

Color	Well Shape	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 100
Clear	Flat	360µL	No	No	3641	**07-200-777**	502.00
Black w/ clear bottom	Round	360µL	No	No	3651	**07-200-770**	1001.00
White w/ clear bottom	Round	360µL	No	No	3604	**07-200-732**	1004.00
Black	Flat	360µL	No	No	3650	**07-200-778**	747.22
White	Flat	360µL	No	No	3600	**07-200-731**	767.50
White	Round	330µL	No	No	3605	**07-200-791**	747.22

Corning™ Clear Polypropylene 96-Well Expanded-Volume Plates

Small footprint with full instrument compatibility

- V-bottom wells
- Standard height format fully conforms to SBS standards
- Untreated

07-202-503 shown with 08-202-504 (sold separately)

ORDERING INFORMATION:
Packaged in bags of ten

CERTIFICATIONS:
Certified DNase- and RNase-free

Color	Well Volume	Sterile	Mfr. No.	Cat. No.	Case of 50
Clear	450µL	No	3343	**07-202-502**	334.00
Clear	450µL	Yes	3344	**07-202-503**	383.50

Costar™ DNA-BIND™ 96-Well Plates

Convenient method for covalently immobilizing ssDNA by either the 5' or 3' end

- Ready to use without surface preparation, prehybridization or addition of expensive crosslinking reagents or highly purified oligos
- Ideal for hybridization and amplification
- Surface provides binding with high specificity and extremely low background
- Flat-bottom wells

07-200-586

Color	Well Volume	Mfr. No.	Cat. No.	Case of
Clear	360µL	2525	**07-200-586**	10/173.20
Clear	360µL	2505	**07-200-584**	50/1035.55
Black	360µL	2498	**07-200-678**	50/760.48
White	360µL	2499	**07-200-680**	50/778.00

Corning™ UV-Transparent Microplates

Ideal for determining protein and/or nucleic acid concentrations

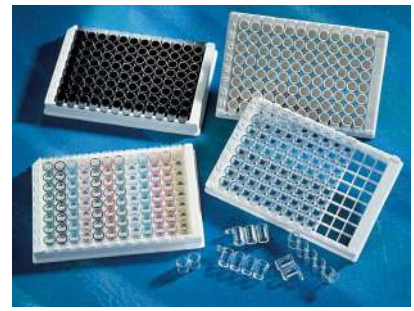
- Usable in place of expensive quartz cuvets for reading down to 220nm
- Well-to-well uniformity, consistent low background and zero crosstalk
- Performance certified at 260 and 280nm

07-200-623

No. of Wells	Well Volume	Mfr. No.	Cat. No.	Pack of 25	Case of
96	370µL	3635	**07-200-623**	455.00	2 Pk./602.50

Corning™ Stripwell™ Microplates

For *in vitro* diagnostic assays



07-200-3 Series

- Designed and treated to provide uniform binding, high optical clarity and low background interference
- Contain twelve 1 × 8 strips pre-assembled in an "egg crate" style holder
- Strips fit in frame in only one direction, eliminating the chance of misorientation
- Flat-bottom wells can be easily snapped apart to allow for radiometric analysis
- Hydrophobic medium-binding surface has a binding capacity of ~250ng IgG/cm^2 and is suited for large hydrophobic biomolecules
- Hydrophobic and ionic (negatively charged) high-binding surface has a binding capacity of ~500ng IgG/cm^2 and is ideal for use with positively charged biomolecules (>10kDa)
- Available in standard volume or low volume to save antibody and reagent costs
- Nonsterile

ORDERING INFORMATION:
Bulk packed. Cat. No. 07-200-24 has individual 1 × 8 strips without frame.

CERTIFICATIONS:
Cat. Nos. 07-200-31 and -32 have certified surface chemistry.

Color	Binding Property	Mfr. No.	Cat. No.	Case of
Standard-Volume Microplates (360µL well volume)				
Clear	Medium	2593	**07-200-32**	100/736.00
Clear	High	2592	**07-200-31**	100/707.50
Clear	High	2580	**07-200-24**[1]	800/428.00
Clear	TC-Treated (sterile)	9102	**07-200-97**	50/467.00
Black	Medium	3914	**07-200-594**	100/740.50
Black	High	3924	**07-200-596**	100/724.50
White	Medium	3913	**07-200-593**	100/397.00
White	High	3923	**07-200-595**	100/724.50
Low-Volume Microplates (190µL well volume)				
Clear	High	2481	**07-200-291**	100/955.00

[1] *Individual 1 × 8 strips without frame.*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Costar™ Clear Polystyrene 96-Well Plates

Ideal for serial dilutions, hemagglutination or precipitation assays

07-200-656

- Medical-grade polystyrene
- Flat, round or V-shaped bottoms
- Untreated or tissue culture treated

Well Shape	Lid	Sterile	Packaging	Mfr. No.	Cat. No.	Case of
Untreated						
Flat	Yes	Yes	20/Pack	3370	**07-200-656**	100/319.59
Round	Yes	Yes	20/Pack	3788	**07-200-760**	100/320.60
Round	No	Yes	Individual	3367	**07-200-704**	50/214.00
Round	No	Yes	25/Pack	3795	**07-200-103**	100/237.68
Round	No	Yes	25/Pack	3798	**07-200-106** [1]	100/286.00
V-shaped	No	Yes	Individual	3896	**07-200-107**	48/238.00
V-shaped	No	No	25/Pack	3897	**07-200-108**	100/237.68
V-shaped	No	No	25/Pack	3898	**07-200-109** [1]	100/348.00
Tissue Culture Treated						
Flat	Yes	Yes	20/Pack	3628	**07-200-706**	100/407.53
Round	Yes	Yes	20/Pack	3358	**07-200-720A**	100/475.00
Round	No	Yes	25/Pack	3360	**07-200-720**	100/308.00

[1] *Processed to improve hydrophilicity; for example, for hemagglutination assays.*

Costar™ 96-Well Black or White Solid Plates

Lot tested for opacity and low fluorescent/luminescent background

07-200-589, 07-200-590

- Polystyrene
- Minimal well-to-well crosstalk
- Recommended working volumes of 75 to 200µL
- Available untreated for solution-based assays, with high binding for immunoassay applications or tissue culture treated for cell growth

Color	Well Shape	Well Volume	Lid	Mfr. No.	Cat. No.	Case of 100
Untreated						
Black	Flat	360µL	No	3915	**07-200-590**	414.06
Black	Round	360µL	No	3792	**06-443-2**	433.00
White	Flat	360µL	No	3912	**07-200-589**	420.09
White	Round	360µL	No	3789	**07-200-336**	465.50
High Binding						
Black	Flat	360µL	No	3925	**07-200-592**	530.50
White	Flat	360µL	No	3922	**07-200-591**	454.50
Tissue Culture Treated						
Black	Flat	360µL	Yes	3916	**07-200-627**	521.00
White	Flat	360µL	Yes	3917	**07-200-628**	475.87

Costar™ 96-Well Black or White Clear-Bottom Plates

For fluorescent and luminescent assays; ideal for performing cell-based and molecular assays

07-200-567, 07-200-568

- Molded polystyrene with opaque walls and optically clear bottoms
- Flat 6.4mm diameter wells
- Surface area per well: 0.32cm^2
- Available in either solid black or white wall colors
- Choose from untreated, high-binding or tissue culture-treated plates

ORDERING INFORMATION:
Cat. No. 07-200-568 also available in a pack of 25.

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of
Untreated						
Black/clear bottom	360µL	No	No	3631	**07-200-567** [1]	100/662.00
White/clear bottom	360µL	No	No	3632	**07-200-568** [1]	100/694.50
High Binding						
Black/clear bottom	360µL	No	No	3601	**07-200-625** [1]	100/778.00
Tissue Culture-Treated						
Black/clear bottom	360µL	Yes	Yes	3603	**07-200-565** [2]	48/397.48
Black/clear bottom	360µL	Yes	Yes	3904	**07-200-588** [3]	100/733.65
White/clear bottom	360µL	Yes	Yes	3610	**07-200-566** [2]	48/401.50
White/clear bottom	360µL	Yes	Yes	3903	**07-200-587** [3]	100/786.50

[1] *Supplied in four packs of 25.*
[2] *Individually wrapped.*
[3] *Supplied in five packs of 20.*

Costar™ 96-Well General Assay Plates

Economical general-purpose plate

07-200-100, 07-200-99

- Flexible untreated PVC
- Ideal for serial dilutions, hemagglutination or precipitation assays and other procedures

ORDERING INFORMATION: Lids are not available. Supplied in packs of 25.

Well Shape	Well Volume	Sterile	Mfr. No.	Cat. No.	Case of 100
Flat	250µL	No	2595	**07-200-33**	223.40
Round	260µL	No	2797	**07-200-99**	223.39
V-shaped	260µL	No	2897	**07-200-100**	223.39

Costar™ 96-Well EIA/RIA Plates

Provide uniform binding, high optical clarity and low background absorption

- Medical-grade polystyrene
- Available with Easy-Wash™, flat or round well shapes
- Easy-Wash wells have tapered bottoms, eliminating the "dead zone" that can be missed by automatic plate washers
- High- or medium-binding surfaces
- Well volume: 360µL

07-200-35

Well Shape	Well Volume	Packaging	Mfr. No.	Cat. No.	Case of
Medium Binding					
Easy-Wash	360µL	25/Pack	3368	**07-200-641**	100/304.00
Flat	360µL	1/Tray	3591	**07-200-36**	50/210.50
Flat	360µL	25/Pack	9017	**07-200-98**	100/184.62
Round	360µL	25/Pack	3797	**07-200-105**	100/201.50
High Binding (with Corning™ Certified Surface Chemistry)					
Easy-Wash	360µL	25/Pack	3369	**07-200-642**	100/401.50
Flat	360µL	1/Tray	3590	**07-200-35**	100/406.02
Flat	360µL	25/Pack	9018	**07-200-39**	100/389.44
Round	360µL	25/Pack	3366	**07-200-640**	100/431.50

Costar™ 96-Well Half-Area Plates

Save on expensive reagents — 4.5mm bottom diameter uses less reagent per well

- Polystyrene
- Flat wells
- Surface area per well: 0.16cm^2
- Alphanumeric grid
- Standard external dimensions compatible with most plate readers
- Choice of four surfaces: untreated for homogenous assays, high-binding for EIA applications, non-binding surface (NBS™) for the minimization of protein and nucleic acid binding or tissue culture treated for cell growth

07-200 Series

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of
Untreated						
Clear	190µL	No	No	3695	**07-200-339**	100/414.06
Black	190µL	No	No	3694	**07-200-329**	100/517.50
White	190µL	No	No	3693	**07-200-326**	100/517.50
High Binding						
Clear	190µL	No	No	3690	**07-200-37**	100/425.62
NBS						
Black	190µL	No	No	3686	**07-200-340**	100/779.50
Tissue Culture Treated						
Clear	190µL	Yes	Yes	3696	**07-200-93** †	50/286.36
Clear	190µL	Yes	Yes	3697	**07-200-334**	100/491.00
Black	190µL	Yes	Yes	3875	**07-200-735**	100/600.50
White	190µL	Yes	Yes	3688	**07-200-309**	100/586.00

† *Individually wrapped.*

Axygen™ High Clarity Microplates

Designed for use in sample collection, combinatorial chemistry, storage and HTS applications

Made of virgin polypropylene, they offer excellent chemical resistance and will withstand temperatures down to -80°C.

- 1.2mL volume per well
- Ideal for sample collection, storage and HTS
- ANSI/SBS footprint for automation use
- High clarity design allows visual confirmation of sample from bottom
- 19 round well low-profile design for reduced space requirements
- Ultra-flat surface ensures proper sealing of heat film
- Centrifugation to 4000 RCF
- Diamond polished wells allow complete sample recovery

Sterile	Mfr. No.	Cat. No.	Case of 50
No	P-DW-12-HC	**14223601**	294.50
Yes	P-DW-12-HC-S	**14223602**	318.44

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384-Well

Fisherbrand® 384-Well Polystyrene Plates

Process four times as many samples as standard 96-well plates

Optimized for robotic instruments, plate readers and liquid handling systems.

- Highly specified polystyrene
- Ideal for low-volume assays such as colorimetric, enzymatic, cloning, replication and array, as well as storage
- Flat well bottom surface provides greater area for binding
- Working volume: 10–100µL
- 384-well microplates conserve samples and reagents, providing cost savings and greater screening productivity
- Untreated
- Non-sterile

ORDERING INFORMATION:
Accommodate 12-565-511 lid (sold separately).

12-565-506, 12-565-511

Description	Cat. No.	Case of
Clear with lid	**12-565-506**	90/524.00
384-Well Plate, White, PS, Non-Treated w/o Lid	**12-566-623**	180/315.50
384-Well Plate, Black, PS, Non-Treated w/o Lid	**12-566-624**	180/271.50
384-Well Plate, Clear, PS, Non-Treated w/o Lid	**12-566-625**	180/268.50

Thermo Scientific™ Nunc™ 384-Well Optical Bottom Plates

Choice of three surfaces for assay flexibility

Rounded-square wells provide maximum access for dispensers and readers.

- Poly-D-Lysine and collagen coating is ideal for cells with low adherence or growth — the uniform coating creates a positive charge on the surface that ensures cell attachment, growth and differentiation.
- Cell culture treated: The Nunclon™ Delta cell culture treated surface is a hydrophilic surface that promotes cell attachment and growth
- Untreated polystyrene is hydrophobic and is suited for growth of suspension cultures that can proliferate and grow without attachment and are ideal for adding coating in your own lab
- Polystyrene upper structure (available in black or white) with either a #1.5 cover glass or polystyrene base
- Working volume: 10 to 120µL
- Customized bar coding is available

12-565-355, 12-566-2, 12-566-281

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Color	With Lid	Sterile	Base	Mfr. No.	Cat. No.	Pack of
Non-Treated						
Black	No	No	Polystyrene/Polymer	242764	**12-566-2**	30/379.00
Black	No	No	#1.5 cover glass	240074	**12-566-281**	30/1339.00
White	No	No	Polystyrene/Polymer	242763	**12-565-355**	30/373.70
Cell Culture Treated						
Black	No	Yes	Polystyrene/Polymer	164730	**12-565-473**	30/355.50
Black	Yes	Yes	Polystyrene/Polymer	142761	**12-566**	30/408.50
White	Yes	Yes	Polystyrene/Polymer	142762	**12-566-1**	30/406.50
Poly-D-Lysine Treated						
Black	Yes	No	Polystyrene/Polymer	152029	**12-565-905**	20/647.00
Collagen I Treated						
Black	Yes	No	Polystyrene/Polymer	152041	**12-565-912**	20/582.50

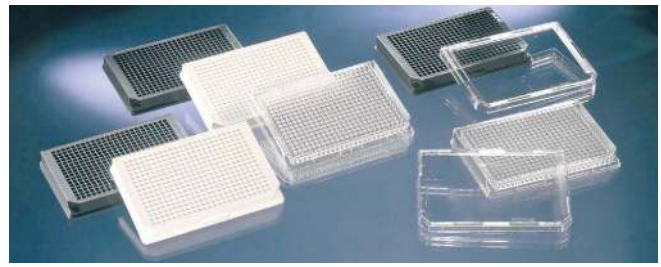
LOOKING FOR MORE...?
Looking for microplate lids? see **12-565-511** on **fishersci.com**

Thermo Scientific™ Nunc™ 384-Well Clear Polystyrene Plates, Cell Culture Treated and Non-Treated Surfaces

For DNA library manipulation or HTS applications in high-volume laboratories

Nunc 384-well polystyrene plates have rounded square-well geometry, eliminating wicking.

- Clear polystyrene has excellent optical properties making it ideal for optical measurements
- Untreated polystyrene is hydrophobic and is suited for growth of suspension cultures that can proliferate and grow without attachment
- Untreated surfaces are ideal for adding coatings in your lab
- Cell culture treated: The Nunclon™ Delta cell culture treated surface is a hydrophilic surface that promotes cell attachment and growth
- Customized bar coding is available
- Choice of untreated or cell culture treated surfaces
- Flexible working volumes; 10 to 100µL



12-565-294

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Well Design	Color	Total Volume	Sterile	With Lid	Mfr. No.	Cat. No.	Case of
Cell Culture Surface							
384U	Clear	120µL	Yes	Yes	164688	**12-565-342**	30/195.40
Untreated Surface							
384U	Clear	120µL	Yes	Yes	242757	**12-565-294**	30/196.40
384U	Clear	120µL	Yes	Yes	242765	**12-565-295**	30/245.50
384U	Clear	120µL	No	No	262160	**12-568-53**	100/570.50
384U	Clear	120µL	Yes	Yes	265202	**12-567-150**	100/578.99
384U	Clear	120µL	Yes	No	265203	**12-567-151**	100/571.50

Thermo Scientific™ Nunc™ 384-Well Polystyrene Black and White Microplates

Improve background, autofluorescence and crosstalk

12-568-55, 12-568-54

- Black microplates are recommended for fluorescence measurements; with minimum back-scattered light and background fluorescence
- White microplates are recommended for luminescence measurements; with maximum reflection and minimal autoluminescence

Color	Sterile	With Lid	Mfr. No.	Cat. No.	Pack of
Untreated surface					
Black	No	No	262260	**12-568-54**	100/602.50
White	No	No	262360	**12-568-55**	100/611.00
Cell culture surface					
Black	Yes	Yes	164564	**12-565-344**	30/214.50
White	Yes	Yes	164610	**12-565-343**	30/220.50
White	Yes	No	165195	**12-568-52**	100/600.50

Fisherbrand® Lid for 96/384 Well Polystyrene Plates

Protect samples from contamination and evaporation during assay processing, incubation or storage

- Clear
- Nonsterile

12-565-511

Description	Cat. No.	Pack of
Clear, Polystyrene, nonsterile lid for 96/384 Well Plates	**12-565-511**	180/302.50

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Prices subject to change.

Thermo Scientific™ Nunc™ 384-Well ShallowWell Standard Height Clear Plates

Standard height provides optimal handling and barcoding

Clear polystyrene has excellent optical properties making it ideal for optical measurements.

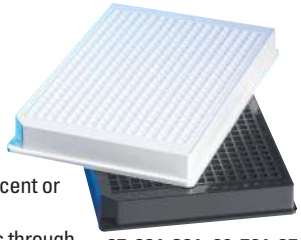
- Untreated polystyrene is hydrophobic and suited for growth of suspension cultures that can proliferate and grow without attachment
- Untreated surfaces are ideal for adding coatings in your lab
- Cell culture treated: The Nunclon™ Delta cell culture treated surface is a hydrophilic surface that promotes cell attachment and growth
- Working volume: 2 to 20µL/well
- 25µL total volume saves reagents
- ANSI™ (SBS) standard footprint
- Customized bar coding is available

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Surface	Sterile	Lid	Mfr. No.	Cat. No.	Case of 100
Untreated	No	No	264704	**12-565-745**	699.50

Corning™ 384-Well Low-Flange Flat-Bottom Plates

Enhanced flatness provides low intra- and inter-plate CVs



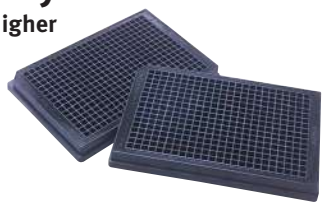
07-201-321, 09-761-85

- Polystyrene
- Square wells with flat bottoms
- Working volume: 20 to 80µL
- Surface area/well: 0.06cm^2
- Conform to standard microplate footprint and dimensions
- Available in black or white for fluorescent or luminescent assays
- Untreated surface binds biomolecules through passive interactions; Nonbinding surface (NBS™) creates a nonionic hydrophilic surface that minimizes molecular interactions; Tissue culture-treated surface provides optimal cell attachment

Color	Lid	Sterile	Mfr. No.	Cat. No.	Case of 50
Untreated					
Black	No	No	3573	**09-761-85**	304.52
White	No	No	3572	**07-201-321**	332.00
Nonbinding (NBS) Surface					
Black	No	No	3575	**09-761-86**	429.14
White	No	No	3574	**07-201-322**	471.00
Tissue Culture Treated					
Black	Yes	Yes	3571	**07-200-852**	365.00
White	Yes	Yes	3570	**07-201-320**	368.84

Corning™ Black 384-Well Polypropylene Assay Plate

Lower compound sticking and higher solvent resistance than polystyrene plates



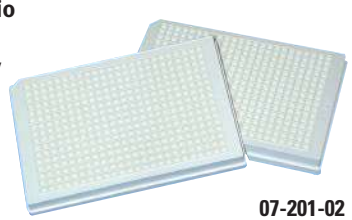
07-200-765

- Ideal for fluorescence assays and for compound storage
- Round-bottom wells
- Untreated

Color	Lid	Sterile	Mfr. No.	Cat. No.	Case of
Black	Yes	Yes	3683BC	**08-757-241**	50/832.00
Black	No	No	3658	**07-200-765**	100/623.50

Corning™ 384-Well Nonbinding Surface (NBS™) Microplates

Enhanced signal-to-noise ratio



07-201-02

- Ideal for homogenous assays such as Scintillation Proximity Assays (SPA) and fluorescent assays
- Modified polymer surface is nonionic hydrophilic, minimizing bio-interaction within wells to reduce nonspecific binding and reagent costs
- Significantly reduces protein and nucleic acid binding to polymers, maintains enzyme activity and inhibits adhesion of a number of cell lines
- Stable to aqueous solutions containing EtOH
- Use at temperature range of 4° to 37°C (39° to 99°F)

Flat-bottom wells

- Compatible with a wide range of plate readers, liquid handlers and robotic systems

Generic Bar Coded Plates

- Code 128 bar code format ensures compatibility with most bar code scanning and software systems
- To avoid mix-ups, the surface treatment of the microplate wells is easily identified
- Labels applied to all four sides of the plate
- No sequence number duplicates

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 100
Black/clear bottom	112µL	No	No	3575BC	**07-200-779**	1502.00
White/clear bottom	112µL	No	No	3653	**07-201-105**	1568.00
White	112µL	No	No	3653BC	**07-200-870**	945.94
With Generic Barcode						
Black	112µL	No	No	3594	**07-200-88**	482.90
White	112µL	No	No	3574BC	**07-201-02**	512.55

Corning™ 384-Well Low-Volume Solid Microplates

Same low reagent volumes as 1536-well plates without the need for new instrumentation

Polystyrene plates feature a unique square-to-round well design with a conical-shaped bottom that provides easier access and imaging for superior assay performance.

12-565-461 (top), 07-200-331

- Bottom reduces fluid and air entrapment, greater signal-to-noise ratio and reduced FP signal (mP) when working with very low volumes
- Each well has a raised rim to reduce cross-contamination during assay and liquid-handling process
- Choose black plates for fluorescence applications or white for luminescence applications

High-Binding Surface Plates

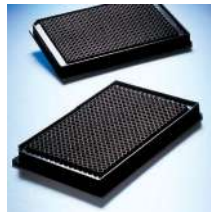
- Ideal for immunoassays
- Can bind medium (>10kDa) and large biomolecules that possess ionic groups and/or hydrophobic regions
- Working volume: 2 to 20µL

Color	Lid	Sterile	Mfr. No.	Cat. No.	Case of
Medium Binding					
Black	No	No	3677	**12-595-461**	100/859.50
White	No	No	3674	**07-200-331**	100/975.00
Nonbinding (NBS)					
Black	No	No	3676	**12-595-460**	100/1134.00
White	No	No	3824	**07-201-300**	50/616.50
White	No	No	3824BC	**07-201-20**	50/692.45
White	No	No	3673	**07-200-330**	100/1250.00
Tissue Culture Treated					
Black	Yes	Yes	3822	**07-201-23**	100/645.71
White	Yes	Yes	3826	**07-201-24**	100/633.65

Corning™ Low-Volume 384-Well Polystyrene Plates

High-base design is compatible with automation and bar coding

- Validated for the FLIPR™ TETRA system — outer wells aligned for proper viewing with the FLIPR system
- 2.8mm distance between well bottoms and plate bottom
- Round wells with flat bottoms
- Working volume: 5 to 45µL
- Untreated surface binds biomolecules through passive interactions; Nonbinding surface (NBS™) creates a nonionic hydrophilic surface that minimizes molecular interactions; Tissue culture-treated surface provides optimal cell attachment



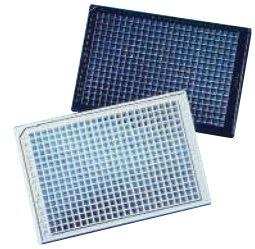
07-202-625

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 50
Untreated						
Black/Clear Bottom	50µL	No	No	3540	**07-202-625**	691.50
Nonbinding (NBS) Surface						
Black/Clear Bottom	50µL	No	No	3544	**09-761-84**	857.00
Tissue Culture Treated						
Black/Clear Bottom	50µL	Yes	Yes	3542	**07-202-626**	780.00

Corning™ Polystyrene 384-Well Clear-Bottom Nontreated Plates

Recommended for fluorescent- and luminescent-based assays and SPA

- One-piece polystyrene
- Readable from top or bottom for direct microscope viewing and CCD camera-based detectors
- Available in white or black formats



07-200-649, 07-200-654

Generic Bar Coded Plates

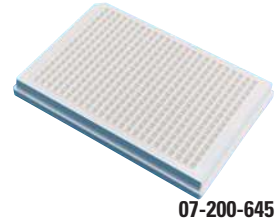
- Code 128 bar code format ensures compatibility with most bar code scanning and software systems
- To avoid mix-ups, the surface treatment of the microplate wells is easily identified in the human readable portion of the bar code (NT = not treated; TC = tissue culture treated; NB = nonbinding surface)
- Labels applied to all 4 sides of the plate
- No sequence number duplicates

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 100
Black/clear bottom	125µL	No	No	3711	**07-200-654**	1052.00
White/clear bottom	125µL	No	No	3706	**07-200-649**	1060.00
With Generic Barcode						
Clear/clear bottom	125µL	No	No	3702BC	**07-201-05**	536.17

Corning™ Polystyrene 384-Well Solid Plates

Suitable primarily for the immobilization of large molecules

- Compatible with all leading 384-well readers and detectors
- Not treated (or medium binding) polystyrene surface is hydrophobic in nature and binds biomolecules through passive interactions
- Available in untreated, high-binding or tissue culture-treated surfaces



07-200-645

Color	Well Volume	Lid	Sterile	Mfr. No.	Cat. No.	Case of 100
Untreated						
Clear	112µL	Yes	No	3680	**07-201-157**	579.00
Clear	112µL	No	No	3702	**07-200-645**	534.00
High Binding						
Clear	112µL	No	No	3700	**07-200-643**	629.63
Tissue Culture Treated						
Clear	112µL	Yes	Yes	3701	**07-200-644**	604.01

ON THE WEB...

Looking for more Assay Plates?

Visit www.fishersci.com and search for Assay Plates

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

1536-Well

Fisherbrand® 1536-Well Polystyrene Plates

Engineered for high-throughput screening, allowing end users to screen four times as many samples in one plates

Optimized for robotic instruments, plate readers and liquid handling systems

- Highly specified polystyrene
- Available in black, white and clear
- Low plate height optimized for stacking efficiency
- Working volume range: 1 to 10µL/well
- Untreated
- Nonsterile

ORDERING INFORMATION:
Lids sold seperately

Color	Cat. No.	Case of
Clear	**12-566-626**	100/292.00
Black	**12-566-627**	180/176.70
White	**12-566-628**	180/268.50

Corning™ 1536-Well Black Clear-Bottom Polystyrene Plates

Highest density microplates available for high throughput screening

08-757-240

Conform to standard microplate footprint and dimensions. 2µL well microplate is a thinner plate with the length and width dimensions and microplate footprint meeting industry standards.

- For fluorescent and luminescent assays
- Total well volume of 10µL for round well plates and 12.8µL for flat bottom plates
- Recommended working volume of up to 8µL
- Round well bottoms for reduced air entrapment and improved CVs and Z factor
- Raised well bottoms for higher sensitivity
- Flood reservoir on four sides to reduce instrument contamination
- Flat well bottoms

ORDERING INFORMATION: Packaged in bags of 10

Surface	Sterile	Lid	Mfr. No.	Cat. No.	Case of 50
Non-treated	No	No	3891	**05-539-30**	2250.00
TC-treated	Yes	Yes	3893	**08-757-240**	2340.00
NBS™ Surface	No	No	3895	**07-200-872**	2850.00

Corning™ 1536-Well Nontreated Polystyrene Plates

Superior flatness minimizes variability within a plate and between plates

07-202-510, 07-202-511

- Excellent signal dynamic range due to low background fluorescence and enhanced signal intensity
- Flat bottom wells are compatible with automated dispensers including the PerkinElmer™ FlexDrop™
- Working volume of up to 10µL

Generic Bar Code

- Ensures compatibility with most bar code scanning and software systems
- To avoid mix-ups, the surface treatment of the microplate wells is easily identified in the human readable portion of the bar code (NT = not treated; TC = tissue culture treated; NB = nonbinding surface)
- Labels applied to all four sides of the plate
- No sequence number duplicates

ORDERING INFORMATION: Packaged in bags of 10

Color	Lid	Mfr. No.	Cat. No.	Case of 50
Black	No	3724	**07-202-510**	1199.00
White	No	3725	**07-202-511**	1211.00
Black	No	3891BC	**07-201-14**	2160.00
Black	----	7234	**07-200-883**	1955.00

Plastic Storage Assay Blocks

24- and 48-Well

Whatman™ 24- and 48-Well UNIPLATE™ Microplates

Natural polypropylene plates with 24- or 48-well formats

- High chemical resistance
- Withstand low temperatures (-80°C) for long-term storage
- Conform to ANSI™/SBS standards for compatibility with most microplate readers and automated plate-handling devices

No. of Wells	Well Shape	Well Capacity	Mfr. No.	Cat. No.	Pack of 25
24	Round	10mL	7701-5102	**PF77015102**	318.00
48	Flat (Rectangular Well)	5mL	7701-5500	**PF77015500**	260.50

96-Well

Fisherbrand® 96-Well Polypropylene Microplates

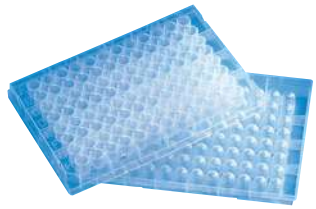
Ideal for storage — feature generous 500µL well volumes

- Polypropylene
- Minimum binding
- Resistant to many reagents
- Withstand temperatures from -80° to +121°C (-112° to +250°F)
- Automation-friendly design optimized for HTS

Description	Cat. No.	Case of
Round bottom; Nonsterile; Natural	**12-565-502**	80/293.50
Round bottom; Nonsterile; Red	**12-565-503**	80/293.50
Round bottom; Nonsterile; Yellow	**12-565-504**	80/293.50
Round bottom; Nonsterile; Blue	**12-565-505**	80/293.50
Round bottom; Sterile; Natural	**12-566-610**	120/129.00

Thermo Scientific™ 96-Well Standard Microplate

330µL storage plates with a conical well-bottom for low volume sample storage and easy recovery.



AB-0796

Streamline your molecular biology applications with Thermo Scientific storage and assay plates. All plates are manufactured in our cleanroom facility to ensure molecular biology grade quality. Our wide range of polypropylene plates provide excellent solutions for sample storage and assay set up, allowing dilutions and aliquots to be handled, stored or transported easily. All plates are ANSI-format for compatibility with automated systems. To further assist in storage and tracking, all plates can be supplied with custom barcoding.

Highlights

- U-shaped well bottom
- Alphanumeric grid-referencing and industry standard footprint
- Highly polished, providing good well visibility
- Supporting ribs to aid stacking and improve centrifugation performance

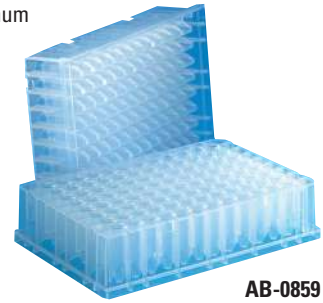
CERTIFICATIONS:
Certified free from Human DNA, RNases and DNases.

Color	Well Volume	Mfr. No.	Cat. No.	Case of 100
Natural	370µL	AB-0796	**AB-0796**	204.00

Thermo Scientific™ 0.8 mL Storage Plate

Deepwell storage plates for cell culture or sample storage applications

- 96 round wells with 800µL maximum well volume
- Max. working volume: Film sealing = 0.8mL, Individual Cap Sealing = 0.7mL, Mat Cap Sealing = 0.65mL



AB-0859

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Description	Mfr. No.	Cat. No.	Case of 50
Natural	AB-0765	**AB-0765**	219.00
Blue	AB-0765B	**AB-0765B**	220.00
Black	AB-0765K	**AB-0765K**	239.00
Red	AB-0765R	**AB-0765R**	221.50
Yellow	AB-0765Y	**AB-0765Y**	221.50
Natural, Bulk Packaging	AB-0859	**AB-0859**	217.00

Thermo Scientific™ 1.2 mL Storage Plate

U-bottomed storage plates are ideal for suspension cell culture

- 96 square wells with 1.2mL maximum well volume
- Max. working volume: Film sealing = 1.2mL, Mat Cap Sealing = 1.0mL
- Square well format to maximize storage capacity

APPLICATIONS:
Sample storage, sample resuspension, cell culture and assay setup: diluting and aliquoting.

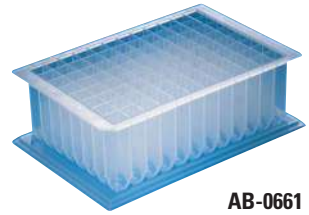
STORAGE: Store at ambient temperature.

CERTIFICATIONS: Free from human DNA, RNases and DNases.

Color	Well Volume	Mfr. No.	Cat. No.	Case of 50
Natural	1.2mL	AB-1127	**AB-1127**	271.50
Natural	1.2mL	AB-0564	**AB-0564**	280.50
White	1.2mL	AB-0564W	**AB-0564W**	308.00
Natural	1.2mL	AB-0787	**AB-0787**	280.50

Thermo Scientific™ 2.2 mL Storage Plate

2.2 mL deepwell storage plates for culture or storage of large samples



AB-0661

Streamline your molecular biology applications with Thermo Scientific storage and assay plates. All plates are manufactured in our cleanroom facility to ensure molecular grade quality. Our wide range of polypropylene plates provides excellent solutions for sample storage and assay set-up, allowing dilutions and aliquots to be handled, stored or transported easily. All plates are ANSI format for compatibility with automated systems. To further assist in storage and tracking, all plates can be supplied with custom barcoding.

Highlights

- Designed for optimal sample recovery
- Each square well is specifically designed with an independent sealing rim to prevent cross-contamination
- U-bottom (AB-0661) to aid resuspension

STORAGE: Store at ambient temperature.

CERTIFICATIONS: Certified free from human DNA, RNase and DNases.

Color	Bottom Shape	Mfr. No.	Cat. No.	Case of 50
Individually wrapped				
Natural	Round (U)	AB-0661	**AB-0661**	307.00
White	Round (U)	AB-0661/W	**AB-0661W**	337.50
Bulk packed (1 bag of 50 plates)				
Natural	Round (U)	AB-0788	**AB-0788**	311.50
Blue	Conical (V)	AB-0932/B	**AB-0932B**	314.50
Green	Conical (V)	AB-0932/G	**AB-0932G**	314.50
Purple	Conical (V)	AB-0932/P	**AB-0932P**	314.50

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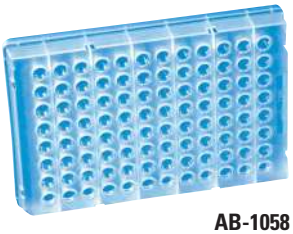
Thermo Scientific™ V-Bottomed 96-Well Storage Plate

Highly polished, virgin medical grade polypropylene storage plates produced in Class 100,000 cleanroom environment.

- For automated and low-throughput applications.
- 96 round wells with 200µL maximum well volume
- Reinforced skirt for robotic manipulation
- Seal with heat seals, adhesive seals or PCR cap strips

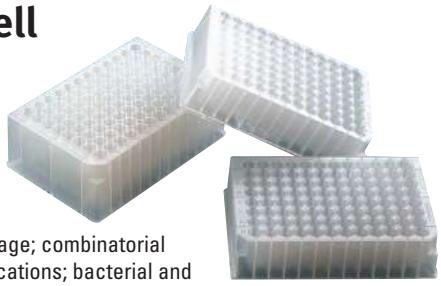


AB-1058

Color	Well Volume	Mfr. No.	Cat. No.	Case of 100
Natural	200µL	AB-1058	**AB-1058**	315.50

Thermo Scientific™ Nunc™ 1.3 and 2.0mL DeepWell Plates with Shared-Wall Technology

Compressed design saves storage space



Unique low design with shared well technology for increased well volume offering optimum storage capacity and improved mixing.

- Ideal as a collection plate for Nunc Filter Plates
- Storage plate for compounds, samples or biomolecules
- Optimized for bacterial and yeast growth
- Polypropylene
- Round-bottom wells reduce liquid retention
- Widely used for bacterial and yeast growth
- Natural color
- Resistant to most chemicals, solvents and alcohols used in combinatorial chemistry
- Customized bar coding is available

Working volumes

- 260251: 50-100µL/well
- 278743 and 278752: 50-1900 µL/well

APPLICATIONS:
Sample collection; storage; combinatorial chemistry; library applications; bacterial and yeast growth; collection plates for Nunc Filter Plates

12-565-394

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Well Volume	Bottom Shape	Sterile	Mfr. No.	Cat. No.	Pack of
1.3mL	U	Yes	260251	**12-565-395**	50/346.00
1.3mL	U	No	260252	**12-565-394**	50/304.84
2mL	U	Yes	278743	**12-565-605**	60/481.50
2mL	U	No	278752	**12-565-606**	60/436.00
2mL	Square	No	95040452	**12-565-650**	50/343.69
2mL	Square	Yes	95040462	**12-565-651**	50/366.50

Thermo Scientific™ Nunc™ 96 Deep Well Plates, Polystyrene

Ideal for sample collection, storage, combinatorial chemistry and library applications

Alphanumeric grid provides quick and easy sample identification.

- Optimized for robotics and liquid handling systems
- Round-bottom wells for optimal sample recovery
- Untreated surface
- Sealable with well caps and sealing tape
- Customized bar coding is available

12-565-553

COMPLIANCE:
All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004).

Sterile	Mfr. No.	Cat. No.	Pack of 4
Yes	278606	**12-565-553**	248.50
No	278605	**12-565-552**	223.00

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Thermo Scientific™ Nunc™ 96-Well Polypropylene MicroWell Plates

Ideal for combinatorial chemistry, liquid-phase assays, library storage and more

12-565 Series

These microplates have shared wall technology, which increases well volume and widens cells to improve mixing.

- Shared wall design increase the well volume
- Wider wells and rounded bottom improve mixing
- Conical bottom well are for optimal sample recovery
- Excellent chemical resistance
- Withstand temperatures from -80° to +121°C (-112° to +250°F)
- Black and white plates are available for fluorescent- and luminescent-based applications
- Low binding polypropylene for homogeneous assays and storage

COMPLIANCE: All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI™) (ANSI/SBS 1-2004)

Well Shape	Color	Sterile	Total Volume	Mfr. No.	Cat. No.	Pack of
U	Natural	No	500µL	267245	**12-565-368**	120/387.00
U	Natural	Yes	500µL	267334	**12-565-369**	120/469.50
U	Black	No	500µL	267342	**12-565-370**	120/501.00
U	White	No	500µL	267350	**12-565-371**	120/501.00
U	Red	No	500µL	267369	**12-565-372**	120/501.00
U	Blue	No	500µL	267385	**12-565-373**	120/501.00
U	Yellow	No	500µL	267407	**12-565-374**	120/501.00
V	Red	No	450µL	249943	**12-565-435**	120/501.00
V	Natural	No	450µL	249944	**12-565-436**	120/373.00
V	Black	No	450µL	249945	**12-565-437**	120/501.00
V	Natural	Yes	450µL	249946	**12-565-438**	120/454.50
V	Yellow	No	450µL	249947	**12-565-439**	120/507.00
V	White	No	450µL	249949	**12-565-440**	120/501.00
V	Blue	No	450µL	249950	**12-565-441**	120/501.00
V	Natural	No	450µL	442587	**12-565-263**	60/264.50

Costar™ 96-Well Assay Blocks

Ideal for compound storage, assay and cell-growth applications

- Clarified polypropylene for optical clarity
- Standard 96-well footprint
- Rigid, flat sidewalls for use in automated laboratories

07-200-723 (Sealing mat not included)

CERTIFICATIONS:
Certified DNase- and RNase-free

Well Shape	Well Volume	Sterile	Mfr. No.	Cat. No.	Case of
Round	1mL	Yes	3958	**09-761-116**	25/166.60
Round	1mL	No	3959	**09-761-116A**	100/616.57
V-bottom	500µL	Yes	3956	**07-200-723**	50/327.63
V-bottom	500µL	No	3957	**07-200-724**	100/625.00
V-bottom	2mL	Yes	3960	**07-200-700**	25/205.02
V-bottom	2mL	No	3961	**07-200-701**	100/777.87

Costar™ Polypropylene Plates

Excellent choice for transport and long-term storage

- Offer optimal clarity and solvent resistance
- Designed for automation with rigid, flat side walls and industry standard footprint
- Manufactured to tight dimensional tolerances in an ISO™ 9002-registered facility

07-200-745 (Sealing mat not included)

ORDERING INFORMATION:
Seal with Storage Mat III (sold separately).

Well Shape	Well Volume	Sterile	Mfr. No.	Cat. No.	Case of 100
96-Well Plates					
Flat	330µL	No	3364	**07-200-696**	303.00
Round	360µL	Yes	3359	**07-200-745**	320.00
Round	360µL	No	3365	**07-200-697**	293.96
V-bottom	320µL	Yes	3357	**07-200-698**	310.55
V-bottom	320µL	No	3363	**07-200-695**	293.96
384-Well Plates					
Round	95µL	Yes	3656	**07-200-747**	509.00
Round	95µL	No	3657	**07-200-748**	456.00

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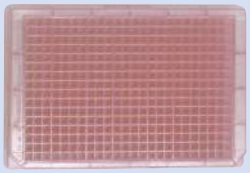
Prices subject to change.

384-Well

Fisherbrand® 384-Well Polypropylene Plates

Feature higher well density for economical use of expensive reagents

- Ideal for storage of compounds and nucleic acid libraries
- Chemical-resistant
- Withstand temperatures from -80° to +80°C (-112° to +176°F)
- Conform to ANSI™-standard footprint for optimal use in automated handling and liquid-dispensing systems



12-565-508

Description	Cat. No.	Case of
Natural; Well vol.: 120µL	**12-565-507**	120/817.50
Red; Well vol.: 120µL	**12-565-508**	120/753.07
120µL well volume; Nonsterile; Natural	**12-566-615**	100/411.00
120µL well volume; Sterile; Natural	**12-566-616**	100/293.90
120µL well volume; Nonsterile; Black	**12-566-617**	100/411.00
120µL well volume; Nonsterile; White	**12-566-618**	100/267.67

Fisherbrand® 384-Well Shallow Well Polypropylene Microplates

Small volume applications

Feature a shared-wall design which yields increased well volume

- Automation compatible, ANSI™ standard
- Low-binding and chemically resistant surface
- Natural plates for storage or colorimetric assays
- White plates for luminescent assays, including SPA
- Black plates for fluorescent assays
- Round bottom wells for optimal sample recovery
- Rounded square wells minimize wicking (capillary action)
- Working volume range: 2 to 35µL/well

ORDERING INFORMATION: Lids not included

Color	Sterile	Cat. No.	Case of 100
Natural	No	**12-566-615**	411.00
Natural	Yes	**12-566-616**	293.90
Black	No	**12-566-617**	411.00
White	No	**12-566-618**	267.67

Thermo Scientific™ 384-Well Conical Bottom Polypropylene Plates

Cost savings for small volume applications

- Conical wells are for optimal sample recovery
- Square rounded wells minimize wicking (capillary action)
- The variety of colors is for quick identification of storage plates
- Chemical resistant to DMSO

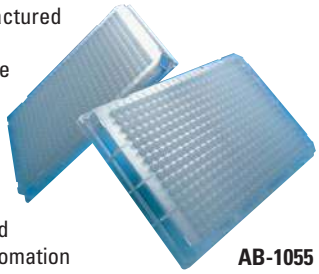
384-Well Plates

Color	Sterile	Mfr. No.	Cat. No.	Pack of 20
Natural	No	264573	**12-565-384**	815.00
Natural	Yes	264574	**12-565-385**	903.50
White	No	264575	**12-565-386**	830.50
White	No	264675	**12-565-742**	1121.00
Black	No	264576	**12-565-387**	841.00
Blue	No	264579	**12-565-390**	829.00

Thermo Scientific™ 384-well Microarray Plate

384-well microarray plate designed for low volume sample storage

Storage and assay plates are manufactured and in a class 100,000 clean room environment to ensure that each plate is contamination free. Plates are made using virgin medical grade polypropylene and have highly polished surfaces making them low binding and chemically resistant. Rigid side walls and industry standard footprint make plates suitable for automation and robotic handling, as well as for low throughput applications.



AB-1055

Highlights

- Designed for optimal sample recovery
- Each well specifically designed with an independent sealing rim to prevent cross-contamination
- Ideally suited for use with the widest range of sealing options
- Improved sample recovery and decreased dead volume
- Available with conical (70µL maximum volume) or v-bottom (55µL maximum volume) wells

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Color	Well Shape	Well Volume	Mfr. No.	Cat. No.	Case of 50
Natural	Cylindrical	70µL	AB-1055	**AB-1055**	308.50
Natural	V-shaped	55µL	AB-1056	**AB-1056**	316.00

Filtering

95-Well

EMD Millipore™ MultiScreen™ 96-Well Assay Plates for Cell-Based Assays

Offer formats that allow a wide range of functional cell-based and whole-organism assays to be performed

MAMI C3S 10

Ideal for cell viability and proliferation, migration, invasion and chemotaxis assays. Versatile separation system combines a microplate with Millipore's membrane filtration to simplify and optimize drug discovery techniques, biochemical assays and traditional sample preparation.

Application	Description	Color	Material	Membrane Type	Pore Size	Sterile	Cat. No.	Pack of 10
Migration, Invasion, Chemotaxis	MultiScreen™-MIC	Clear	Styrene	Tissue Culture-treated Polycarbonate	3µm	Yes	**MAMI C3S 10**	712.50
	MultiScreen-MIC	Clear	Styrene	Tissue Culture-treated Polycarbonate	5.0µm	Yes	**MAMI C5S 10**	710.50
	MultiScreen-MIC	Clear	Styrene	Tissue Culture-treated Polycarbonate	8µm	Yes	**MAMI C8S 10**	696.50

EMD Millipore™ MultiScreen™ 96-Well Assay Plates for ELISPOT Assays

Give optimal results in immunological ELISPOT (enzyme-linked immunospot) assays by providing high protein-binding capacity with low background staining

MAHA S45 10

Application	Description	Color	Material	Membrane Type	Pore Size	Sterile	Cat. No.	Pack of
ELISPOT	MultiScreen-IP w/Underdrain	Clear	Acrylic	Immobilon™-P PVDF	0.45µm	Yes	**MAIP S45 10**	10/251.50
	MultiScreen-HA	Clear	Styrene	Mixed Cellulose Esters	0.45µm	Yes	**MAHA S45 10**	10/255.00
	MultiScreen-IP	White	Acrylic	Immobilon-P PVDF	0.45µm	Yes	**S2EM 004 M99**	10/256.50
	MultiScreen$_{HTS}$-IP w/Underdrain	White	Acrylic (white)	Immobilon-IP PVDF	0.45µm	Yes	**MSIP S4W 10**	10/224.00
	MultiScreen$_{HTS}$-IP w/Underdrain	White	Acrylic	Immobilon-IP PVDF	0.45µm	No	**MSIP N4W 50**	50/838.00

EMD Millipore™ MultiScreen™ 96-Well Assay Plates for Receptor Ligand Binding Assays

Ideal for performing receptor binding assays involving whole cells, membrane fragments or purified receptors; also suitable for Scatchard analysis, as has been demonstrated in numerous receptor-binding assays including Interleukin I, Angiotensin II and C5a studies

Versatile separation system combines a microplate with EMD Millipore's membrane filtration to simplify and optimize drug discovery techniques, biochemical assays and traditional sample preparation.

MABV N0B 50

Nontoxic

- Use with a vacuum manifold, automated liquid-handling system or microplate scintillation counter — entire assays can be performed on one plate
- Membrane-to-plate seal ensures no reagent crosstalk and limited optical crosstalk
- Patented underdrain support structure allows liquid volumes to be maintained for incubation times of up to 21 days
- Also ensures quantitative filtrate transfer to a receiver plate placed in bottom of manifold

Choice of filter materials

- For high protein binding applications, use plates with Immobilon™-P PVDF or mixed cellulose esters
- For high nucleic acid binding, use plates with mixed cellulose esters, glass fiber or positively charged DEAE membranes
- For charged biomolecule separations, choose from positively charged DEAE or negatively charged phosphocellulose membranes
- For low biomolecule binding, use plates with hydrophilic Durapore™ PVDF, Biopore™ PTFE or polycarbonate membranes
- For assays that require solvent resistance, use plates with hydrophilic PTFE membranes

NOTES:
Each microporous membrane interacts distinctly with different proteins or biomolecules; therefore, it may be necessary to test different membrane types for each assay.

Contd. on the next page.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ MultiScreen™ 96-Well Assay Plates for Receptor Ligand Binding Assays, Contd.

Application	Description	Color	Material	Membrane Type	Pore Size	Sterile	Cat. No.	Pack of
Cell Harvest	MultiScreen Harvest-B1	Opaque	Barex/TiO_2	FB Glass Fiber	1.0µm	No	**MAHF B1H 60**	60/756.00
	MultiScreen Harvest-C1	Opaque	Barex/TiO_2	FC Glass Fiber	1.2µm	No	**MAHF C1H 60**	60/755.50
Receptor Ligand Binding	MultiScreen-HV	Clear	Styrene	Durapore PVDF	0.45µm	No	**MAHV N45 10**	10/192.70
						No	**MAHV N45 50**	50/899.00
	MultiScreen-BV	Opaque	Barex/TiO_2	Durapore PVDF	1.2µm	No	**MABV N0B 50**	50/984.50

EMD Millipore™ MultiScreen$_{HTS}$™ 96-Well Filter Plates

Innovative plate design for full automation compatibility

MSGV and MSHV Series

Ideal for use in a broad range of drug discovery and life science applications, including receptor-ligand binding, general sample preparation, ELISPOT, enzyme activity, bead-based assays, whole organism visualization and radioisotope detection.

- Standardized dimensions allow full compatibility with automated gripper arms, stackers, bar code labels and plate readers; aligned, rigid sidewalls permit easy handling by robotic gripper arms
- Unique two-piece plate design eliminates surface contact with individual well "drip directors," prevents crosstalk between wells and provides easy, contamination-free stacking and improved seal with vacuum manifolds
- Extended skirt enables stacking directly with collection plates, protects recessed underdrain, provides ample surface for bar code labels and improves vacuum seal
- Removable underdrain allows membrane access for ELISPOT assays, whole organism visualization and radioisotope detection
- Isolated well design and individually sealed filter discs eliminate potential for reagent flow from well to well
- Meet ANSI™/SBS 2004 plate specifications
- Available in clear or opaque plastic to prevent light transfer between wells during direct scintillation counting
- Low binding hydrophilic Durapore™ membrane allows low nonspecific binding of antibodies, reagents and samples
- Plates are optimized for high bead recovery
- Plates are fully compatible with automated gripper arms, plate washers and readers

Application	Color	Material	Membrane Type	Pore Size	Sterile	Cat. No.	Pack of
Low Protein/Nucleic Acid Binding							
Receptor binding assays on whole cells and cell fragments, protein kinase/ phosphatase precipitation assays, bead/resin-based assays	Clear	Styrene	Durapore PVDF	0.22µm	No	**MSGVN2210**	10/175.80
	Clear	Styrene	Durapore PVDF	0.22µm	No	**MSGVN2250**	50/818.50
	Opaque	Barex/TiO_2	Durapore PVDF	0.22µm	No	**MSGVN2B50**	50/886.50
	Clear	Styrene	Durapore PVDF	0.22µm	Yes	**MSGVS2210**	10/220.00
	Clear	Styrene	Durapore PVDF	0.45µm	No	**MSHVN4510**	10/175.80
	Clear	Styrene	Durapore PVDF	0.45µm	No	**MSHVN4550**	50/818.50
	Opaque	Barex/TiO_2	Durapore PVDF	0.45µm	No	**MSHVN4B10**	10/203.00
	Opaque	Barex/TiO_2	Durapore PVDF	0.45µm	No	**MSHVN4B50**	50/904.50
	Clear	Styrene	Durapore PVDF	0.45µm	Yes	**MSHVS4510**	10/220.00
	Clear	Styrene	Durapore PVDF	0.65µm	No	**MSDVN6510**	10/181.90
	Clear	Styrene	Durapore PVDF	0.65µm	No	**MSDVN6550**	50/841.50
	Opaque	Barex/TiO_2	Durapore PVDF	0.65µm	No	**MSDVN6B50**	50/932.50
Sample prep/ bead-based assays	Clear	Styrene	Durapore PVDF	1.2µm	No	**MSBVN1210**	10/181.90
	Clear	Styrene	Durapore PVDF	1.2µm	No	**MSBVN1250**	50/831.50
	Opaque	Styrene	Durapore PVDF	1.2µm	No	**MSBVN1B50**	50/930.00
	Clear	Styrene	Durapore PVDF	1.2µm	Yes	**MSBVS1210**	10/212.50
High Protein/Nucleic Acid Binding							
Protein interaction assays, avidin-biotin linkages, DNA-binding proteins	Clear	Acrylic (clear)	Immobilon-P PVDF	0.45µm	Yes	**MSIPN4510**	10/179.90
	Clear	Acrylic	Immobilon-P PVDF	0.45µm	No	**MSIPN4550**	50/803.50
	Opaque	Barex/TiO_2	Immobilon-P PVDF	0.45µm	No	**MSIPN4B10**	10/206.00
	Opaque	Barex/TiO_2	Immobilon-P PVDF	0.45µm	No	**MSIPN4B50**	50/920.50
ELISPOT assays	Clear	Acrylic	Immobilon-P PVDF	0.45µm	Yes	**MSIPS4510**	10/227.50
Plates with Glass Fiber Filter							
Receptor/ligand binding assays, sample prep, enzyme assays with precipitation, DNA purification	Opaque	Barex/TiO_2	Glass fiber filter	1.0 + 0.65µm	No	**MSFBN6B10**	10/208.50
	Opaque	Barex/TiO_2	Glass fiber filter	1.0 + 0.65µm	No	**MSFBN6B50**	50/998.50
	Opaque	Barex/TiO_2	Glass fiber/Polyester mesh	1.0µm supported by polyester mesh	No	**MSFBNXB50**	50/1104.00
	Opaque	Barex/TiO_2	Glass fiber filter	1.2 + 0.65µm	No	**MSFCN6B10**	10/208.50
	Opaque	Barex/TiO_2	Glass fiber filter	1.2 + 0.65µm	No	**MSFCN6B50**	50/998.50
	Opaque	Barex/TiO_2	Glass fiber/Polyester mesh	1.2µm supported by polyester mesh	No	**MSFCNXB50**	50/1076.00

EMD Millipore™ MultiScreen$_{HTS}$™ Solubility Filter Plate

96-well filter plate designed and optimized for aqueous solubility assays

- High-throughput system to classify or quantify the aqueous solubility of compound libraries stored in solvent as a concentrated solution
- Analysis time in under four hours using <100µg of sample per test
- Automation compatible, with space for bar coding
- Validated for high drug recovery
- Low-binding membrane and low-binding plate materials

MSSL BPC 10

Filter Material	Cat. No.	Pack of
Polycarbonate	**MSSL BPC 10**	10/447.50
Polycarbonate	**MSSL BPC 50**	50/1912.00

EMD Millipore™ MultiScreen™ Ultracel™-10 Filtration Plates

For centrifugal filtration only

- Single-use, 96-well polyolefin
- Process sample volumes from 100 to 500µL
- With 10,000 Dalton NMWL regenerated cellulose membrane
- For low protein binding and high protein retention, removing large molecular weight proteins, protein concentration and desalting
- Storage lid included

MAUF01010

ALERTS:
Do not use with vacuum filtration.

Description	Cat. No.	Pack of
MultiScreen Ultracel-10	**MAUF01010**	10/745.50

EMD Millipore™ MultiScreen™ Solvinert Filter Plates

Solvent-compatible plates optimized for drug discovery applications

- Clear polyolefin base plate offers broad solvent compatibility
- One-piece design eliminates leaking and allows for extended incubations
- Low binding and low extractables
- Accommodate aqueous and nonaqueous samples with chemically resistant hydrophilic or hydrophobic membranes
- Automation compatible
- Available in 96-well deep well (2mL) format (with or without prefilter) and standard (500µL) format

MSRP and MSRL Series

Membrane Type	Well Volume	Pore Size	Sterile	Cat. No.	Pack of
MultiScreen Deep Well Solvinert Filter Plates					
Hydrophobic PTFE	2mL	0.45µm	No	**MDRP N04 10**	10/608.00
Hydrophilic PTFE	2mL	0.45µm	No	**MDRL N04 10**	10/609.50
MultiScreen Deep Well Solvinert Filter Plates with Prefilter					
Hydrophobic PTFE	2mL	0.45µm	No	**MDRP NP4 10**	10/684.00
MultiScreen Solvinert Filter Plates					
Hydrophobic PTFE	500µL	0.45µm	No	**MSRP N04 10**	10/323.00
			No	**MSRP N04 50**	50/1563.00
Hydrophilic PTFE	500µL	0.45µm	No	**MSRL N04 10**	10/323.00
			No	**MSRL N04 50**	50/1442.00

EMD Millipore™ MultiScreen™ HTS 384-Well Filter Plates

For use in automated high-throughput applications including sample preparation and radiometric filter-binding assays

- Styrene Acrylonitrile (SAN)
- White top with clear bottom

MZHVN0W10

Material	Mfr. No.	Cat. No.	Pack of 10
Durapore PVDF	MZHVN0W10	**MZHVN0W10**	476.00

Corning™ FiltrEX™ Filter Plates

Individual filter discs eliminate liquid cross-contamination

- Patented plate design features rigid, virgin polystyrene construction
- Ideal for automated liquid handling, centrifugation and vacuum filtration
- Wide skirt easily accommodates bar code labels
- Individual filter discs are sealed in the wells to ensure 100% integrity of each well
- Benchtop-safe design prevents contamination of bottom filtration openings while allowing plates to rest on the lab bench
- 96-well plates hold a standard 350µL per well; high-throughput 384-well plates feature a 180µL working volume that simplifies protocol transition from the 96-well format
- Multiple filter media and pore sizes available to meet a variety of applications
- Hydrophilic PVDF membrane in 0.2 to 0.45µm pore sizes for chromatography support
- Glass fiber membrane in 0.25 to 0.66mm thickness for PCR purifications
- Either membrane can be used for Plasmid DNA purification and high-throughput screening such as receptor-ligand binding and cell-based assays
- SBS standard dimensions

07-201-142

ORDERING INFORMATION:
Sterile plates are wrapped in packs of 5; 10 packs per case. Lids are not included, but may be ordered separately.

Color	Membrane Type	Pore Size/ Membrane Thickness	Sterile	Mfr. No.	Cat. No.	Case of 50
96-Well Plates						
Clear	PVDF	0.2µm	No	3508	**07-202-507**	1153.00
White	PVDF	0.2µm	Yes	3505	**07-201-142**	1193.00
White	PVDF	0.2µm	No	3504	**07-200-754**	1154.00
White	Glass Fiber	0.25mm	No	3510	**07-200-763**	1262.00
White	Glass Fiber	0.66mm	No	3511	**07-200-764**	1262.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

384-Well

Whatman™ UniFilter™ 384-Well Microplates

Long drip directors eliminate well-to-well contamination during filtration

- Clear polystyrene construction
- Ideal for use in DNA template cleanup, cell capture and the removal of unwanted debris
- 384-well format microplates with a 100µL well volume allow a large enough sample for recovery after filtration

Membrane Type	Mfr. No.	Cat. No.	Pack of 50
DNA Binding	7700-2110	**09-003-50**	1607.00
Whatman GF/C	7700-1101	**PF77001101**	1670.00

09-003-50

Immunoassay Plates

Thermo Scientific™ Immulon™ Immunoassay Plates and Strip Assemblies

Choice of three binding surfaces and two well shapes for reproducible results in immunoassay applications

96-Well Solid Plates

- Clear polystyrene
- Flat and round well shapes
- Assembled with removable strips (2 × 8-Well or 12-Well configuration)
- Choice of three surfaces, each tested via an immunoglobin binding assay

2 × 8-Well Strip

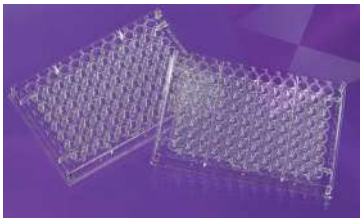
- Can be used as individual 8-well strips
- Nonbreakable

12-Well Strip

- Breakable

Surfaces

- Immulon 1 B - Hydrophobic surface for preferential binding of biomolecules with hydrophobic domains
- Immulon 2 HB — Slightly hydrophilic surface for increased binding of biomolecules with hydrophobic/hydrophilic character such as many proteins and complex biomolecules
- Immulon 4 HBX — Hydrophilic surface designed for high binding of IgG, as well as a very wide range of proteins and biomolecules that have hydrophilic/hydrophobic character. Well to Well %CV less than or equal to 5.5%



Immulon Immunoassay Plates

Format	Well Shape	No. of Wells per Strip	Type	Surface	Mfr. No.	Cat. No.	Case of
Removawell Assembly	C-shaped	8 wells/strip	4 HBX	Hydrophilic	6484	**14-245-174**	100/626.00
Removawell Assembly	C-shaped	8 wells/strip	2 HB	Hydrophilic	6382	**14-245-170**	100/585.50
Removawell Strip	Flat	12 wells/strip	1 B	Hydrophobic	6701	**14-245-80**	320/163.99

Thermo Scientific™ Immuno Plates, Clear

For quantitative and qualitative solid phase immunoassays

96-Well and 384-Well Solid Plates

- Clear polystyrene
- 3 well shapes available (flat, round or C-shaped)
- Choice of four surfaces for optimal binding
- Alphanumerically labeled rows and columns

Surfaces

- PolySorp™, Immulon™ 1B and Universal Binding (UB) for adsorption of hydrophobic molecules
- MediSorp™ and Immulon 2HB are slightly hydrophilic and bind a diverse range of biomolecules
- MaxiSorp™, Immulon 4 HBX and Enhanced Binding (EB) are hydrophilic and ideal for antibody sandwich assays
- MultiSorp™ is very hydrophilic and works well for glycans and water soluble proteins

ORDERING INFORMATION:

- Please note that availability may vary by country.
- 12-565-730, 12-565-377, 12-565-135 and 12-565-267 include certificate.

ALERTS:

Each lot is functionally tested for IgG binding.

Thermo Scientific Immuno Plates

Contd. on the next page.

Thermo Scientific™ Immuno Plates, Clear, Contd.

Brand	Well Shape	Surface	Design	Volume Total/Working	Bar Code	Mfr. No.	Cat. No.	Case of
Immulon	Flat-bottom	1 B	High Flange	330µL/230µL	No	3355	**14-245-78**	50/151.10
Immulon	Round-bottom	1 B	High Flange	280µL/180µL	No	3555	**14-245-77**	50/155.70
Immulon	Flat-bottom	2 HB	High Flange	330µL/280µL	No	3455	**14-245-61**	50/183.50
Immulon	Round-bottom	2 HB	High Flange	280µL/180µL	No	3655	**14-245-79**	50/183.50
Immulon	Flat-bottom	4 HBX	High Flange	330µL/280µL	No	3855	**14-245-153**	50/198.90
Immulon	Flat-bottom, 384	1 B	High Flange	120µL/100µL	No	8555	**21-377-836**	50/268.00
Immulon	Flat-bottom, 384	4 HBX	High Flange	120µL/100µL	No	8755	**21-377-838**	50/359.50
Microtiter™	Flat-bottom	UB	High Flange	380µL/330µL	No	9502227	**21-377-269**	50/177.30
Microtiter	Flat-bottom	UB	High Flange	380µL/330µL	No	95029780	**21-377-315**	40/292.50
Microtiter	Flat-bottom	EB	High Flange	380µL/330µL	No	95029330	**21-377-270**	50/233.00
Nunc™	Flat-bottom	PolySorp	Pinchbar	400µL/350µL	No	475094	**12-565-138**	60/275.15
Nunc	Flat-bottom	PolySorp	Flange	400µL/350µL	No	456529	**12-565-376**	180/848.00
Nunc	C-shaped	PolySorp	Pinchbar	350µL/250µL	No	446140	**12-565-266**	60/275.15
Nunc	Round-bottom	PolySorp	Flange	300µL/250µL	No	475434	**12-565-139**	60/275.15
Nunc	Flat-bottom	MediSorp	Flange	400µL/350µL	No	467320	**12-565-730** †	60/330.50
Nunc	Flat-bottom	MaxiSorp	Flange	400µL/350µL	No	456537	**12-565-377** †	180/970.50
Nunc	Flat-bottom	MaxiSorp	Pinchbar	400µL/350µL	No	439454	**12-565-135** †	60/327.00
Nunc	Flat-bottom	MaxiSorp	Pinchbar	400µL/350µL	No	442404	**12-565-136**	60/281.20
Nunc	C-shaped	MaxiSorp	Pinchbar	350µL/250µL	No	430341	**12-565-261**	60/280.68
Nunc	C-shaped	MaxiSorp	Pinchbar	350µL/250µL	No	446612	**12-565-267**†	60/316.44
Nunc	Round-bottom	MaxiSorp	Flange	300µL/250µL	No	449824	**12-565-137**	60/280.68
Nunc	Flat-bottom	MultiSorp	Flange	400µL/350µL	No	467340	**14-962-23**	60/342.00
Nunc	Flat-bottom, 384	MaxiSorp	Pinchbar	120µL/100µL	No	464718	**12-565-347**	30/216.50

† *Include Certificate of Specifications*

Thermo Scientific™ Immuno Standard Modules, Clear

Strips of 16 (2 × 8), 12 or 8 wells in frame — 96 wells in all

Thermo Scientific standard modules are strip plates with solid modules that can be easily inserted and removed from their frame. This enhances the use of the plate with smaller sample sizes.

- Several strip formats: 8-well strip, 12-well strip, 16-well strip (two columns of 8 wells)
- Several well shapes: flat bottom, C bottom (radius edge), U shape wells, StarWells (wells have fins to increase the surface area and enhance performance)
- Several surfaces to maximize assay performance
- Modules remain in frame when inverted
- Stackable frame marked for lid orientation
- Polystyrene wells in polyethylene frame
- External dimensions: 128 × 86mm

Choice of Surface

- PolySorp™, Immulon™ 1B and Universal Binding (UB) for adsorption of hydrophobic molecules
- Immulon 2HB are slightly hydrophilic and bind a diverse range of biomolecules
- MaxiSorp™ is hydrophilic and ideal for antibody sandwich assays
- MultiSorp™ is very hydrophilic and works well for glycans and water soluble proteins

ORDERING INFORMATION:
Free-standing modules. Frames and modules available separately. Sealing tape and strip caps are available. Color-coded modules are available on request. See your Sales Representative for further details.

Immuno Standard Modules Clear

CERTIFICATIONS:
Products specified in chart are certified for: Adsorption of IgG; CV of <5% between wells; all results ±10% from mean; and background of all wells ±0.005 absorbance units from mean.

Contd. on the next page.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Immuno Standard Modules Clear, Contd.

Brand	Well Design	Surface	Total Volume	Max. Working Volume	Certified	Mfr. No.	Cat. No.	Price
Framed Modules								
Nunc™	C12 (1x12 wells)	PolySorp	350µL	250µL	No	473717	**12-565-124**	Cs. of 60/534.72
Nunc	F8	PolySorp	400µL	350µL	No	469078	**12-565-122**	Cs. of 60/499.00
Nunc	U8	PolySorp	300µL	250µL	No	475086	**12-565-118**	Cs. of 60/501.00
Nunc	C8 StarWell	PolySorp	380µL	250µL	No	441254	**12-666-21**	Cs. of 60/598.00
Immulon	F16 (2x8 wells)	1 B	330µL	280µL	No	6505	**14-245-210**	Cs. of100/555.50
Immulon	F12	1 B	380µL	330µL	No	6310	**14-245-168**	Cs. of 100/576.00
Immulon	F16 (2x8 wells)	2 HB	330µL	280µL	No	6506	**14-245-211**	Cs. of 100/579.50
Immulon	F12	2 HB	380µL	330µL	No	6309	**14-245-167**	Cs. of 100/603.50
Nunc	F16 (2x8 wells)	MaxiSorp	400µL	350µL	Yes	467466	**12-565-119**	Cs. of 60/526.50
Nunc	C12 (1x12 wells)	MaxiSorp	350µL	250µL	Yes	473709	**12-565-123**	Cs. of 60/546.50
Nunc	F8	MaxiSorp	400µL	350µL	Yes	468667	**12-565-121**	Cs. of 60/525.50
Nunc	F8	MaxiSorp	400µL	350µL	No	434797	**22-047-029**	Cs. of 120/1048.00
Unframed Modules								
Immulon	F12	2 HB	380µL	330µL	No	6302	**14-245-81**	Pk. of 320/190.50
Immulon	F12	4 HBX	380µL	330µL	No	6404	**14-245-163**	Pk. of 320/208.50

Thermo Scientific™ Immuno Plates White and Black

For quantitative and qualitative immunoassays

- Plate has SBS footprint — fits standard equipment
- Available with flat-bottom, round or C-shaped wells
- Choice of three surface types for optimal binding
- Offered as black or white plates for optimal choice of application type
- Certified binding homogeneity/reproducibility

Choice of Surface

- PolySorp™, Microfluor 1, Microlite 1+ and Universal Binding (UB) for adsorption of hydrophobic molecules
- MaxiSorp™ is hydrophilic and ideal for antibody sandwich assays
- Microfluor™ 2 and Microlite™ 2+ are slightly hydrophilic and bind a diverse range of biomolecules

White

- Gives maximum reflection
- Minimum autofluorescence and autoluminescence

Black

- Minimizes background in fluorescence reading
- Minimizes back-scattered light and crosstalk

Thermo Scientific Immuno Plates White and Black

Brand	Well Shape	Surface	Application	Volume Total/ Working	Color	Mfr. No.	Cat. No.	Case of
96-Well Plates								
Immulon™	Flat-bottom	Microfluor 1	Fluorescence	330µL/280µL	Black	7605	**14-245-197A**	50/203.50
Immulon	Flat-bottom	Microfluor 1	Fluorescence	330µL/280µL	White	7705	**14-245-197B**	50/203.50
Immulon	Round-bottom	Microfluor 1	Fluorescence	280µL/230µL	Black	7005	**14-245-194B**	50/196.60
Immulon	Round-bottom	Microfluor 1	Fluorescence	280µL/230µL	White	6905	**14-245-194A**	50/196.60
Immulon	Flat-bottom	Microfluor 2	Fluorescence	330µL/280µL	Black	7805	**14-245-177**	50/245.50
Immulon	Flat-bottom	Microfluor 2	Fluorescence	330µL/280µL	White	7905	**14-245-178**	50/245.50
Immulon	Round-bottom	Microfluor 2	Fluorescence	280µL/230µL	Black	7205	**14-245-176**	50/238.00
Immulon	Round-bottom	Microfluor 2	Fluorescence	280µL/230µL	White	7105	**14-245-175**	50/238.00
Immulon	Flat-bottom	Microlite 1+	Luminescence	330µL/280µL	White	7571	**14-245-196P**	50/216.50
Immulon	Flat-bottom	Microlite 2+	Luminescence	330µL/280µL	White	7572	**14-245-196Q**	50/251.00
Microtiter™	Flat-bottom RE	UB	Fluorescence	400µL/350µL	Black	9502867	**21-377-271**	50/290.50
Microtiter	Flat-bottom	UB	Luminescence	380µL/330µL	White	9502887	**21-377-273**	50/295.00
Nunc™	Flat-bottom	PolySorp	Fluorescence	400µL/350µL	Black	437112	**12-566-30**	80/428.50
Nunc	Flat-bottom	MaxiSorp	Fluorescence	400µL/350µL	Black	437111	**12-566-24**	80/456.00
Nunc	Flat-bottom	PolySorp	Fluorescence and Luminescence	400µL/350µL	White	436111	**12-566-06**	80/439.50
Nunc	Flat-bottom	MaxiSorp	Fluorescence and Luminescence	400µL/350µL	White	436110	**12-566-05**	80/465.00
Nunc	Flat-bottom RE	UB	Fluorescence and Luminescence	450µL	White	95029770	**21-377-342**	40/303.50
384-Well Plates								
Nunc	Flat-bottom	MaxiSorp	Fluorescence	120µL/100µL	Black	460518	**12-565-346**	30/250.50
Nunc	Flat-bottom	MaxiSorp	Fluorescence and Luminescence	120µL/100µL	White	460372	**12-565-345**	30/251.00

Thermo Scientific™ Immuno Specialty Surfaces

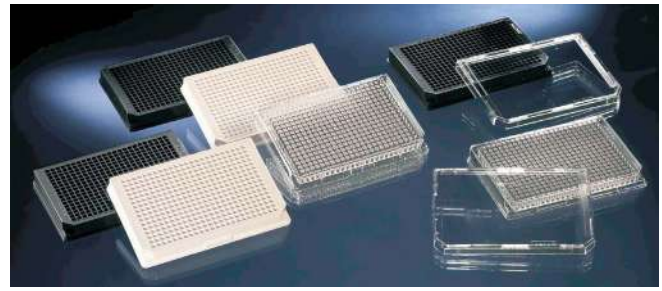
Ideal for binding of biotinylated biomolecules, such as peptides, antibodies, oligonucleotides or haptens

Covalent Surfaces (CovaLink™ and Immobilizer Amino)

- Minimal leaching
- Withstand vigorous washing
- Coating with lower amounts of reagent may be possible
- Control of orientation

Affinity Capture Surfaces (Passive Streptavidin and Immobilizer Streptavidin, Nickel Chelate and Glutathione, BioBind™)

- Highly specific binding
- Reduced variability in molecular orientation
- Immobilizer surfaces improve signal to noise ratios
- Streptavidin biotin interaction can be exploited to immobilize a wide range of biomolecules



Immuno Specialty Surfaces

Brand	Type	Well Shape	Coating	Volume, Total/ Coated	Color	Mfr. No.	Cat. No.	Case of
Covalent Surfaces								
Nunc™ Immobilizer	Solid plate 96-well	Flat-bottom	Amino	400µL/100µL	Clear	436006	**12-567-12**	30/566.50
Nunc Immobilizer	Solid plate 96-well	Flat-bottom	Amino	400µL/100µL	White	436007	**12-567-10**	30/612.50
Nunc Immobilizer	Solid plate 96-well	Flat-bottom	Amino	400µL/100µL	Black	436008	**12-567-11**	30/612.50
Nunc Immobilizer	LockWell module C8 (x12) in frame	Flat-bottom w/curved edge	Amino	350µL/100µL	Clear	436023	**12-567-14**	30/744.00
Nunc Immobilizer	Solid module F8 (x12) in frame	Flat-bottom	Amino	400µL/100µL	Clear	436013	**12-567-13**	30/754.00
Nunc	Solid module C8 (x12) in frame	Flat-bottom	CovaLink	400µL/100µL	Clear	478042	**12-565-132**	30/637.00
Affinity Surfaces								
Nunc Immobilizer	LockWell module C8 (x12) in frame	Flat-bottom w/curved edge	Streptavidin covalently coated	350µL/100µL	Clear	436022	**12-567-17**	15/597.00

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Prices subject to change.

Microplate Accessories

Lids/Seals/Tapes/Caps

Fisherbrand® Silicone Plate Seals

Excellent chemical compatibility and resistance to tearing and coring

- Nonslit seals reseal after multiple penetrations to prevent sample evaporation and cross-well contamination
- Preslit seals are easy to penetrate and reduce well vacuum
- Apply by hand or with an applicator
- Remain flexible at ambient temperatures and in the absence of chlorinated solvents
- Autoclavable

03-396 Series

Fits	Seal Type	Cat. No.	Pack of 10
Costar™ 96-Well Polypropylene Plates and Assay Blocks, Whatman™ 96-Well Multi-Chem™ Microplates	Nonslit	**03-396-49**	126.90
	Preslit	**03-396-50**	142.60
Fisherbrand Round-Bottom 96-Well Polypropylene Plates and Assay Blocks, Thermo Scientific™ Nunc™ 96-Well Storage Plates	Nonslit	**03-396-51**	126.90
	Preslit	**03-396-52**	142.60
Fisherbrand 96-Well 2.2mL Assay Blocks, Whatman 96-Well Polypropylene Storage Plates (Square-Well Plate)	Nonslit	**03-396-53**	142.60
	Preslit	**03-396-54**	170.30
Fisherbrand 384-Well Polypropylene Plates, Costar Brand 384-Well Polypropylene Storage Block (Square-Well Plate)	Nonslit	**03-396-55**	170.10
	Preslit	**03-396-56**	177.40

Thermo Scientific™ Nunc™ Microplate Lids

Offer sample protection from contamination and evaporation during assay processing, incubation or storage

Lids are use with any standard 96-well plates.

- 96-Well Lids have individual condensation rings
- Lids have notches for quick orientation

Nunc Microplate Lids

Height, without stacking holders	Cut-off Corners	Condensation Rings	Evaporation Barrier	Color	Sterile	Mfr. No.	Cat. No.	Case of
Standard Lids, for 96 MicroWell Plates								
With condensation rings and evaporation rim; Polystyrene; External dimensions 127 × 85 mm								
Standard, 7.9mm	Long Side	Yes	Yes	Clear	No	263339	**12-565-69**	100/200.50
Standard, 7.9mm	Long Side	Yes	Yes	Clear	Yes	264122	**12-565-70**	50/146.20
Standard Lids for 384 Well Plates								
With evaporation rim; Polystyrene; External dimensions 127 × 85 mm								
Standard, 7.9mm	Long side	No	Yes	Clear	Yes	264611	**12-565-603**	60/157.50
Standard, 7.9mm	Long side	No	Yes	Clear	No	264612	**12-565-604**	180/349.00
Standard, 7.9mm	Long side	No	Yes	Clear	Yes	264616	**12-565-610**	180/378.00

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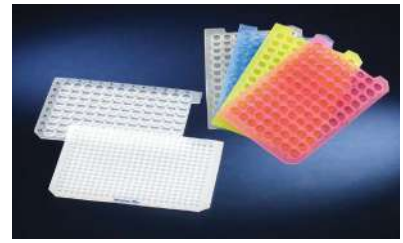
Thermo Scientific™ Nunc™ 96-Well Cap Mats

Available in 96-well format

- Chemically resistant, pierceable, withstand low temperature to -80°C
- Pre-slit silicone well caps permit a pipette tip or probe to enter the well without damage to the cap
- The variety of colors is for quick identification of storage plates
- Chemically resistant, pierceable well caps are excellent for compound storage to -80°C
- Silicone pre-slit well caps permit a pipet tip or probe to enter the well without damage to the cap
- Silicone caps with pre-slit are solvent resistant, should not be subjected to 100% DMSO

ORDERING INFORMATION:
Sterile mats are individually wrapped.

NOTES:
96-well polypropylene DeepWell plates with "Shared Wall" technology also fit standard-height polypropylene 96-well microwell plates. 276011 Preslit silicone caps can be pierced repeatedly. Do not use pre-slit silicone with 100% DMSO.



96-Well Cap Mats for DeepWell Plates

Under Well Shape	Pierceable	Slit	Color/Sterile	Packaged as	Mfr. No.	Cat. No.	Price
Round	Yes, Pierceable by hypodermic	Not preslit	Natural/Yes	1/50	276000	**12-565-560**	277.00
Round	Yes, Pierceable by hypodermic	Not preslit	Natural/No	5/50	276002	**12-565-559**	252.50
Round	Yes, Pierceable by hypodermic	Not preslit	Blue/No	5/50	276005	**12-565-556**	277.00
Round	Yes, Pierceable by hypodermic and pipet tip, repeatedly	Preslit	Natural/No	10/50	276011	**12-565-570**	475.50
Square	Yes, Pierceable by hypodermic	Not preslit	Natural/No	5/50	9503230	**14-387-93**	311.50
Square	Yes, Pierceable by hypodermic	Not preslit	Natural/Yes	1/25	9503233	**14-387-94**	188.60
Round	Yes	Preslit	Natural/Yes	1/25	278616	**12-565-563**	212.50

Thermo Scientific™ Nunc™ Sealing Tapes

Effectively seal all microplate formats

Adhesive seals are ideal for all assay applications.

- Wide range of adhesive seals for every assay
- Adhesive seals effectively seal all microplate formats
- Pressure sensitive adhesive is not tacky to touch; but forms a strong bond to the plate upon application of pressure
- Thin, lightweight tapes seal onto the plate with a convenient, handheld applicator (available separately, Cat. No. 250050)

12-565 Series

Material/Adhesive	Color/Sterile/Pierceable	Certified	Temperature Range	Units per Pk/Cs	Mfr. No.	Cat. No.	Pack
Aluminum/Silicone	Silver/No/Yes	Yes	-80° to +120°C	100/100	276014	**12-565-475**	140.70
Aluminum/Acrylate	Silver/No/Yes	Yes	-80° to +150°C	100/100	232698	**12-565-398**	79.60
Aluminum/Acrylate	Silver/No/Yes	Yes	-80° to +150°C	100/100	232699	**12-565-399**	85.30
Polyester/Silicone	Clear/No/No	No	-70° to +100°C	100/100	236370	**12-567-90**	206.50
Polyethylene/Silicone	Clear/No/Yes	No	-40° to +90°C	100/100	235306	**12-565-512**	386.00
Polyolefin/Acrylate	Clear/No/No	No	-70° to +100°C	100/100	232701	**12-565-492**	102.50
Polyolefin/Acrylate	Clear/No/No	Yes	-70° to +100°C	100/100	232702	**12-565-491**	100.00
Polyolefin/Silicone	Clear/No/No	No	-70° to +100°C	100/100	235307	**12-565-513**	347.50
Rayon/Acrylate	White/No/No	Yes	-20° to +80°C	50/50	249720	**12-249-720**	107.60

Thermo Scientific™ 96-well Sealing Mats

Highlights

- Round or square capped mats for sealing 96-well storage plates
- Alphanumeric grid-referencing
- Molded from a proprietary thermoplastic elastomer for a flexible design
- Suitable for long term storage
- Available in autoclavable or piercable formats

Pierceable Version

- Solvent resistant (including DMSO, Ethanol and Isopropanol)
- Suitable for UV irradiation and Gamma irradiation
- Requires 6N for piercing
- Temperature Range: -20°C to +55°C

Autoclavable Version

- Suitable for UV irradiation and Gamma irradiation
- Temperature Range: -20°C to +130°C

AB-0566 shown with microplate (sold separately)

Description	Closure	Cat. No.	Case of 50
Nonautoclavable, Pierceable	Round	**AB-0566**	184.50
Nonautoclavable, Pierceable	Square	**AB-0662**	168.10
Autoclavable	Round	**AB-0674**	168.10
Autoclavable	Square	**AB-0675**	168.10

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Before You Buy EVOS® FL Auto and Onstage Incubator

General Information

The EVOS® FL Auto Imaging System offers you these important advantages:

- Exceptional ease-of-use with a fully automated and motorized X/Y scanning stage, autofocus and flat-focus Z-stack.
- Advanced software featuring high-resolution mosaic tiling, multi-position vessel scanning, auto counting and timelapse.
- Outstanding versatility with a 5-position objective turret, 4-color fluorescence and both color and black and white cameras included.
- 22" touch-screen LCD display, networking capability and DVI output.

The EVOS® Onstage Incubator offers you these important advantages:

- Fully integrated environmental chamber for live cell time-lapse imaging.
- Precisely maintain physiological or non-physiological conditions.
- Intuitively set acquisition parameters using the EVOS® FL Auto interface.
- Small footprint, robust build and work-flow enhancing design elements.
- Choice of a range of vessel holders.

Product Information

The EVOS® FL Auto Imaging System + Onstage Incubator — Better Results!

The EVOS® Onstage Incubator is an environmental chamber designed specifically for the EVOS® FL Auto Imaging System. It enables precise control of temperature, humidity and three gases for time-lapse imaging of live cells under both physiological and non-physiological conditions. Environmental settings and image acquisition parameters are all seamlessly integrated into the EVOS® FL Auto interface, creating a high-performance inverted imaging system.

Advanced Cell Imaging Solutions with Onstage Incubator

- The top of the incubator lid is coated with Indium Tin Oxide (ITO) semiconductor to allow light to pass through and heat the lid.
- The Onstage Incubator offers different, interchangeable inserts, which give the user maximum versatility.

EVOS® ON STAGE INCUBATOR SPECS	
Compatible Vessels	Multiwell plates, 35mm, 60mm Petri dishes, T-25 Flasks
Temperature Range	Ambient - 40°C
CO_2 % Range	0–20%
O_2 % Range	Ambient - 0%
Humidity Range	>80% RH @ 37°C
Dimensions/Weight	25 × 19 × 3.7cm, 1.5kg (Environment chamber) 37 × 16 × 20cm, 10kg (Control unit)

Microscopes

Compound Microscopes

Fisher Scientific™ Micromaster™ II Microscopes

The versatility of laboratory-grade microscopes at a more affordable price — ideal for education and general laboratory use

12-561-4B

- Eyepieces: 10X wide-field, DIN standard; binocular and trinocular models are equipped with two eyepieces
- Head: binocular or dual-viewing configurations; rotatable 360° and inclined at 30°; binocular heads adjust for interpupillary distance (55 to 75mm) and dioptric differences
- Nosepiece: quadruple reversed nosepiece with precision click stops
- Objectives: 4X/0.10 N.A., 10X/0.25 N.A., 40X/0.65 N.A. and 100X retractable DIN standard achromatic objectives produce true color images with sharp focus, are parfocal, parcentered and coated
- Stage: precision-machined 125 × 135mm mechanical stage, chemical-resistant finish, removable spring-clip slide holder
- Focus: ergonomically positioned coaxial coarse/fine controls; adjustable safety stop and tension adjustments prevent slide damage and contamination
- Condenser: 1.25 N.A. Abbe, iris diaphragm, rack-and-pinion mechanism for precise focusing of light beam; swing-in filter holder and blue filter included
- Illumination: variable-intensity 6V 20w quartz halogen lamp; solid-state dimmer
- Finish: chemical-resistant baked-on paint with stipple finish to resist fingerprints and smudges

Body	Objectives	Cat. No.	Each
Binocular	4X, 10X, 40X, 100X oil immersion	**12-561-4B**	1411.17
Dual view	4X, 10X, 40X	**12-561-3D**	1391.73

Fisher Scientific™ Micromaster™ Premier Microscopes

Redefine the standard for affordable quality, with upgraded optics

Ideally suited for educational and research purposes.

12-561-331

- Head: 45-degree observation angle with interpupillary and diopter adjustments
- Eyepieces: 10X, 20mm widefield with built-in, collapsible eyecups
- Illumination: 6V, 20W halogen illumination with easy, pull-out cartridge bulb replacement system
- Mechanical Stage: Low-position, X/Y axis mechanical stage
- Electrical: 110V to 240V auto-adjustable power supply
- Carrying Handle: Built-in carrying handle makes microscope easy to move
- Focusing Stop: Factory set and user adjustable to protect slides
- Collector Lens: Built-in iris diaphragm and easily removable filter tray

Description	Head	Applications	Cat. No.	Each
Brightfield	Binocular	Student	**12-561-326**	1400.01
Brightfield	Binocular	Teaching/Student	**12-561-327**	1550.10
Brightfield	Binocular	Research/Teaching	**12-561-328**	1674.46
Brightfield	Trinocular	Research	**12-561-329**	1771.50
Brightfield/Phase Contrast	Binocular	Research	**12-561-330**	2041.21
Brightfield/Phase Contrast	Trinocular	Research	**12-561-331**	2110.35

Fisher Scientific™ Digital Micromaster™ Premier Microscopes

Affordable quality with upgraded optics

Ideally suited for educational and research purposes.

- Head: Video Binocular, 45° observation angle with interpupillary and dual diopter adjustments
- Camera: 640 × 480 analog or 3 megapixel color camera
- Video: RCA video output and 6.4", 360° rotating LCD viewing screen (12-563-530 only)
- Eyepieces: 10x, 20mm widefield with built-in, collapsible eye cups
- Illumination: 6V, 20W halogen illumination with easy, pull-out cartridge bulb replacement system
- Mechanical Stage: Low-position, X/Y axis mechanical stage
- Electrical: 110V to 240V auto-adjustable power supply
- Carrying Handle: Built-in carrying handle makes microscope easy to move
- Focusing Stop: Factory set and user adjustable to protect slides
- Optics: Traditional Plan Achromatic or Infinity-corrected 4x, 10x, 40x and 100x oil, parfocal and parcentered, standard objectives with coating to reduce reflection

12-563-532

Head Type	Objectives	Contrast	Condenser	Trinocular Port	Cat. No.	Each
Digital Binocular	10x Ph, 20x Ph, 40x Ph and 100x Ph	Brightfield/Phase	N.A. 1.25 abbe achromatic; full	50/50% light split rate	**12-563-532**	3082.43

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Prices subject to change.

Carl Zeiss™ Primo Star™ HAL/LED Microscopes

Robust and durable enough for repeated assembling and disassembling, Primo Star offers a complete configuration with either fixed- or full-Köhler stand, excellent optics and reasonable pricing

Easy to operate — modular design offers flexibility for numerous innovative lab solutions.

Comfortable and Ergonomic Design

- 360° Swiveling Siedentopf tube
- Ergonomic viewing angle of 30°
- Viewing height adjustable for various users
- Interocular distance can be adjusted from 48 mm to 75 mm to suit users

Modular Illumination

- 30w Halogen light
- LED warm light, 3200K, with stable color temperature and high efficiency
- Optional mirror illumination, order separately

Lighting Control

- Blue light intensity display on both sides of the stand
- Quick control of light intensity by the user
- The light intensity display allows instructors to check all microscopes in the classroom, even from a distance

Right- and Left-Hand Stage Operation

- Order either right- or lef-hand drives — have both types available in the lab

External Power Supply Unit

- No untidy cables in the users' way
- Special rear panel with external power supply unit and cable
- Adapter for conversion to a table-top power supply unit
- Power supply unit can simply be replaced for repairs

Integrated Carrying Handle

- Secure design, plastic-coated on the inside
- Safe, easy transport to and from lab bench

Specifications

- Optics: Color-corrected infinity optics
- Parfocal Distance: 45mm
- Tube Length: 180mm
- Stand: Fixed- or Full-Kohler
- Magnifications: 40x to 1000x for visual observation; 40x to 100x for camera observation (photobue models)
- Eyepiece Tubes: 360° Swiveling Siedentopf tube with lower and upper (40mm extra view height) positions; adjustable interpupillary distance (48 to 75mm); 30° viewing angle; binocular tube and binocular phototube; 50:50% vis:doc (user can see specimen through binoculars at the same time the camera captures the same image)
- Eyepieces: WF 10x with 18mm field of view (fixed models); WF 10x with 20mm field of view (full models); eyepiece can be retrofitted; eyepieces anti-fungus treated
- Nosepiece: 4x, reversible
- Objectives: Plan-Achromat
- Condenser: Abbe, 0.9 to 1.25; holder for phase contrast and darkfield sliders
- Illumination: Modular illumination concept with drawer; Halogen (6V 30w), LED (6V 3w), mirror for daylight illumination

12-171-440

- Stage: Right- or left-hand operation, depending on model
- Dimensions: Stage area, W × D, 140 × 135mm; travel range, W × D, 75 × 30mm
- Z-Drives: Fine drive, 0.3mm/rotation; coarse drive, 4mm/rotation; total travel range, 15mm

Fixed Köhler Stand

- Standard model, excellent for education
- All the important functions, but very simple to operate
- Extremely long service life and low maintenance costs
- With a 6V/30w halogen lamp and an LED warm light illuminator

Full Köhler Stand

- Use to teach the classic Koehler method: suitable for higher-level education
- Larger field of view
- Certain models have phototube for connection to a digital or video camera

APPLICATIONS: Plant stem cross-sections in botany, extremely fine structures like diatoms in darkfield in biology, examination and analysis of germs and bacteria in field work, stained tissue sections in medicine

INCLUDES: Some models built with camera tube (phototube) or include an eyepiece pointer. All models: dust cover, oiler with 5mL immersion oil, color filter set (blue, green, yellow), 6V/30w halogen lamp

Model	Right- or Left Hand Drive	Eyepiece	Field of View	Illumination	Includes	Magnification	Condenser	Mfr. No.	Cat. No.	Each
Fixed Köhler	Right	Widefield, 10x	18mm	Halogen, LED	----	40x to 1000x	Abbe, 0.9/1.25	415500-0051-000	**12-171-480**	1383.00
Fixed Köhler	Right	Widefield, 10x	18mm	Halogen, LED	----	40x to 1000x	Abbe, 0.9/1.25	415500-0053-000	**12-171-484**	1595.00
Full Köhler	Right	Widefield, 10x	20mm	Halogen, LED	Eyepiece pointer	40x to 1000x	Abbe, 0.9/1.25	415500-0056-000	**12-171-482**	2220.00
Full Köhler	Right	Widefield, 10x	20mm	Halogen, LED	Phototube	40x to 1000x, 40x to 100x camera observation	Abbe, 0.9/1.25	415500-0054-000	**12-171-425**	1698.00
Full Köhler	Right	Widefield, 10x	20mm	Halogen, LED	Phototube	40x to 1000x, 40x to 100x camera observation	Abbe, 0.9/1.25	415500-0057-000	**12-171-440**	2222.00

Carl Zeiss™ AxioLab™ A1 Microscopes

Ergonomic, easy-to-use and durable

Developed for bio-medical or industrial laboratories, for universities and training courses. Offer excellent performance and optics, with brilliant image quality for versatile medical applications.

TUV-approved ergonomic configuration for maximized comfort and stress-free working position

- Special features for laboratory use, such as convenient position of all main operating elements
- Excellent optical quality for reliable results
- High quality materials to provide long-term durability
- Integrated tool storage and cable rest in stand back flap
- Numerous tubes, including multi-observation and accessories for a wide range of applications
- Transmitted light, halogen, LED daylight or LED warmlight illumination options

12-070 Series AxioLab A1 w/ Camera

AxioLab.A1 Technical Data

- Contrasting techniques — Brightfield, darkfield, phase contrast, simple polarization contrast, fluorescence contrast
- Illumination — Integrated 35w halogen lamp, 3w LED (daylight, warmlight)
- Objectives — A-Plan, N-Achroplan, EC Epiplan Objectives
- Eyepieces — Eyepieces 10X for field of view of 20mm
- Stand — 5-position nosepiece, stage drive right; POL version has 4-position centerable nosepiece
- Ergonomics — TUV-approved ergonomics with height-adjustable and tilting tube, with ergonomic stage and stage drive, with a number of soft-touch materials to increase working comfort
- Co-observation — One main-observer with tubes for up to two co-observers seated on the left side of the main observer

ORDERING INFORMATION:
Available optional accessories: mechanical stages with drives right or left in fixed position (ergodrive), several types of specimen holders, several condensers, several binocular tubes, phototubes and ergotubes with different adjustment possibilities in respect to height and tilt, multi-observation equipment, several interference and neutral density filters, several illumination bulbs as HAL or LED, several polarizer and analyzer modules, several reflector modules, several FL-LED modules, several camera adapters, several microscope cameras and AxioVison microscope software.

INCLUDES:
All packages include stand, head, eyepieces, stage, objectives, condenser, illuminator, filter, dust cover, power supply and cord.

Bioscience Kits

- Brightfield Kit w/Phototube and Halogen Bulb offers 10X/20mm E-PL eyepieces, right-hand mechanical stage with specimen holder, five-position revolving nosepiece, five A-Plan objectives (5X, 10X, 20X, 40X, 100X oil), white balance and contrast enhancement filters and 12V/35w halogen bulb.
- Brightfield/Phase Kit w/Phototube offers 10X/20mm E-PL eyepieces, right-hand mechanical stage with specimen holder, five-position revolving nosepiece, four A-Plan objectives (5X, 10X Ph1, 40X Ph2, 100X Ph3 oil), white balance and contrast enhancement filters and 12V/35w halogen bulb.

CERTIFICATIONS: CE marked; UL listed; ISO 9001:2000

Description	Head Configuration	Eyepiece	Objectives	Light Source	Mfr. No.	Cat. No.	Each
Bioscience Packages							
Brightfield Kit with Phototube and Halogen Bulb	Binocular Phototube	10X/20mm	5X, 10X, 20X, 40X, 100X oil A-Plan	12V/35W Halogen	410999-0000-017	**12-070-204**	5570.00
Brightfield/Phase Kit with Phototube	Binocular Phototube	10X/20mm	5X, 10X Ph1, 40X Ph2, 100X Ph3 oil A-Plan, A-Plan 20X Ph 2	12V/35W Halogen	410999-0000-021	**12-070-208**	5730.00

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Prices subject to change.

Before You Buy A Florescence Microscope

BioTek

AutoEasy

- Cytation 3 makes high-quality imaging simple, automated and cost-effective, unlike manual microscopes that can be complex, time-consuming and expensive
- Automated x-y stage, auto focus, auto exposure and auto LED intensity provide easy and efficient imaging from the simplest to the most complex cell imaging requirements
- Streamline workflows with Gen5 Image+ Software by combining multiple steps for automated imaging and powerful analysis

Powerful Microscopy

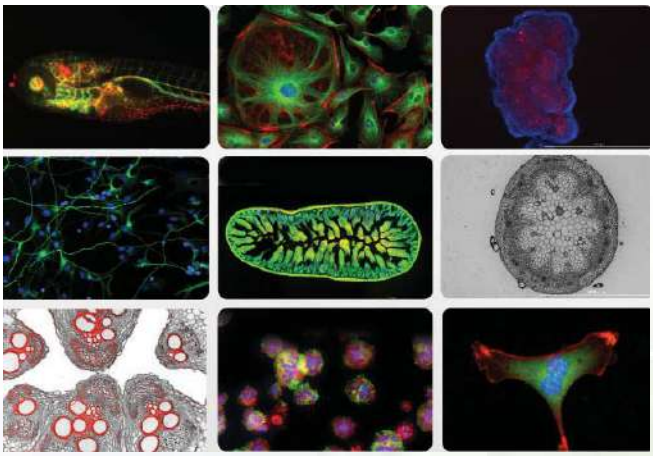
- Fluorescence and brightfield imaging from 2.5X to 60X magnification in up to four color channels
- Powerful cell counting, subpopulation analysis, morphology analysis and image statistics
- Endpoint, montage and time-lapse assay imaging
- Live-cell assays are optimized with CO_2/O_2 control, incubation to 45^0 C and orbital shaking
- Dual reagent injectors available
- Modular, upgradable design can be upgraded to include conventional multi-mode microplate detection when the laboratory's needs change

Product Information

Cytation 3 offers high-quality automated fluorescence microscopy with the ability to add conventional multi-mode detection. Imaging plus multi-mode detection offers the unique opportunity to capture phenotypic and quantitative data – giving a more complete cell picture.

Applications for Cytation 3 include:

- Cell imaging and analysis
- Cell proliferation and cytotoxicity
- Biologics drug discovery and development
- Protein expression



Inverted Microscopes

Fisher Scientific™ Micromaster™ Inverted Digital Microscopes with Infinity Optics

Infinity-corrected optics, with brightfield and phase contrast

12-563 Series

These Micromaster inverted microscopes are ideal for live cell observation, featuring infinity-corrected optics, brightfield and phase contrast illumination techniques, with options for integrated digital camera with software.

- Binocular and digital options
- 3 megapixel integrated camera (integrated digital models only)
- Long working distance objectives
- 2.75" working height (5.75" without condenser)
- Infinity color corrected optical system

Binocular (12-563-518)

- Parfocal zoom
- Magnification controls are dual, side-mounted knobs with clearly marked magnification values
- Dual diopter adjustments allow for correction of dioptric differences
- Interpuliary adjustment corrects for different spacing between eyes

Integrated Digital (12-563-520)

- High resolution three mega pixel camera in microscope body
- USB 2.0 direct connection to PC for image capture
- View images through binocular and camera at the same time
- Parfocality between camera and oculars
- Micron USB2 software included

INCLUDES:

- Fixed Stage Versions
- 4X brightfield Infinity correct objective
- 10X brightfield/phase Infinity correct objective
- 20X brightfield/phase Infinity correct objective
- Green and blue filter
- Dust cover
- Centering telescope

Head Type	Total Magnification	Camera	Includes	Cat. No.	Each
Mechanical Stage					
Binocular	40X, 100X, 200X, 400X	Digital camera options available	Vessel holders†	**12-563-518**	6440.33
Binocular/Digital	40X, 100X, 200X, 400X	Integrated 3 megapixel camera	Vessel holders†	**12-563-520**	7699.41

†Includes three vessel holders for: four 35mm Petri dishes (Cat. No. 12-563-522). one Hemocytometer (Cat. No. 12-563-527) and two standard microscope slides (Cat. No. 12-563-521)

BioTek™ Cytation3 Cell Imaging Multi-Mode Reader

Cytation3 is a cell imaging multi-mode microplate reader that combines automated digital microscopy and conventional microplate detection. This unique design provides rich phenotypic cellular information with well-based quantitative data.

Cytation 3 Cell Imaging Multi-Mode Reader

- Automated digital microscopy and/or multi-mode microplate detection in one instrument
- Modular and upgradable: microscopy only, microplate reading only or both
- Flexible sample format: 6- to 384-well plates, microscope slides and cell culture flasks
- Affordable automation: automated XY stage, auto focus, auto exposure, automated image capture, LED intensity
- Inverted fluorescence (4 LED filter cube capacity) and brightfield microscopy
- From 2X for full-well imaging to 60X for sub-micron resolution for intra-cellular details
- High quality images: Olympus objectives, 16-bit gray scale CCD camera, Semrock filters
- Live cell assays with temperature control up to 45°C, CO2/O2 gas control accessory
- Endpoint, time-lapse and montage assays
- Automatic cell counting, sub-population analysis and image statistics
- Dual reagent injectors
- Patented Hybrid Technology™ microplate reading mode with high performance filter-based optics and high-flexibility monochromator optics

Description	Mfr. No.	Cat. No.	Each
Monochromator, Fluorescence and Absorbance; Filter Based; Automated Fluorescence and Brightfield Imaging	CYT3MFV	**BTCYT3MFV**	80,500.00
Monochromator; Automated Imaging	CYT3MV	**BTCYT3MV**	67,500.00
Filter Based; Automated Imaging	CYT3FV	**BTCYT3FV**	55,500.00
Automated Fluorescence and Brightfield Imaging	CYT3V	**BTCYT3V**	42,500.00

ON THE WEB...

Looking for Bio Tek™ Cytation 3 accessories?

Visit www.fishersci.com/cytation3 Accessories

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Prices subject to change.

EVOS™ XL Core

Embedded operating system with image software for capture/save

Evos XL Core

Features

- LED illumination
- Brightfield and phase contrast
- Color camera, 3.1 megapixel
- 12.1" high-definition display
- Available with fixed stage or mechanical stage
- Objectives (Fixed-Stage Model): 4X, 10X, 20X
- Objectives (Mechanical Stage Model): 4X, 10X, 20X, 40X
- Embedded operating system with image software for capture/save

ORDERING INFORMATION: Attachable mechanical stage available (12-563-352, sold separately).

WARRANTY: 1 year

Description	Objectives	Mfr. No.	Cat. No.	Each
Fixed Stage	4X, 10X, 20X	AMEX-1100-US	**12-562-651**	6360.00
Mechanical Stage	4X, 10X, 20X, 40X	AMEX-1200-US	**12-562-652**	8649.23

EVOS™ Digital Inverted Brightfield and Phase Contrast Microscope

Fully integrated all-in-one workstation

EVOS XL

The EVOS XL is an all-in-one, high-performance brightfield phase contrast microscope designed to make transmitted light cell culture microscopy as comfortable, reliable and effective as possible by delivering excellent flexibility and ease-of-use.

- Condenser sliders: Diffuser block and multiple meniscus filters
- Camera: 3.1 megapixels color CMOS; 2048 × 1536 pixels; 3.2µm/pixel Image Acquisition: On-board computer; Intel™ Atom™ processor 1.8GHz; integrated imaging software via mouse control
- Captured images: Color TIFF, PNG, JPG or BMP Output Ports: Three USB 2.0 and one DVI
- Arm rest: For delicate cell isolation procedures (standard on CI, optional for XL)

APPLICATIONS: Transmitted light cell culture microscopy

ORDERING INFORMATION: Optional accessories include vessel holders (Mfr. Nos. AMEP-VH001 through AMEP-VH014) and arm rest (AMEP-4618). Objectives available separately.

Base	Objectives	Arm Rest	Mfr. No.	Cat. No.	Each
EVOS XL	No objectives	No	AME-3300	**12-563-450**	10,892.31

EVOS™ FLoid™ Cell Imaging Station

Captures high-quality, three-color fluorescent cell images right at your benchtop

Designed to remove all of the inherent complexities of capturing and processing three color fluorescent cell images, the EVOS FLoid Cell Imaging Station allows even the most novice users to spend their precious time on analyzing data rather than worrying about the operation of a microscope. Its interface is so simple, even novice users can collect data in just a few clicks of the mouse.

- Benchtop device for imaging cells
- Intuitive user interface allows novices and experts to generate fluorescence cell images in a snap
- Self-Contained: no moving parts provides an insurance policy for your expensive confocal scopes allowing day-to-day use
- Integrated Molecular Probes™ reagent selection guide with protocols helps you design and execute your cell imaging experiments
- Print and stick captured images right in your notebook with the associated printer
- Instrument design blocks ambient light taking fluorescent cell imaging out of the darkroom and onto the bench
- Comes with FLoid Cell Imaging Station Software and 2-gig USB drive
- Mechanical glide stage; range of motion, 10mm in X and Y dimensions

Specifications

- Dimensions: 13.9D × 15.9W × 21.1"H (35.3 × 40.4 × 53.6cm)
- Weight: 26 lb. (11.8kg)
- Operating power: 100-240 VAC, 50-60 Hz
- Electrical input: 5 VDC, 4.15A
- Operating temperature: 4-32°C
- Operating humidity: <90% (noncondensing)
- Output ports: 4 USB
- LCD monitor: 15" color; display resolution 1366 × 768 pixels
- Image resolution 1296 × 964 pixels; adjustable tilt
- Captured images: 16-bit monochrome TIFF, PNG, BMP and JPG

10-213-412

Optics

- Objective: 20X plan fluorite
- Numerical aperture: 0.45 NA
- Working distance (WD): 5.9mm (defined as tip of objective to bottom of a 1.2mm thick slide)
- Overall magnification: 460X (optical); 1840X (with digital zoom)
- Display resolution: 1366 × 768 pixels
- Image resolution: 1296 × 964 pixels
- Contrast methods: Fluorescence and transmitted light (relief phase)
- Four color channels: Relief phase, blue fluorescence, green fluorescence, red fluorescence
- Illumination: LED (50,000 hr. life), adjustable intensity
- Excitation: Blue channel: 390/40nm; Green: 482/18nm; Red: 586/15nm
- Emission: Blue channel: 446/33nm; Green: 532/59nm; Red: 646/68nm
- Stage to condenser: 60mm
- Stage: Range of motion, 4mm in X and Y dimensions
- Camera: Sony 1.3MP 1/3" ICX445 EXview HAD CCD

Description	Mfr. No	Cat. No.	Each
FLoid Cell Imaging Station	4471136	**10-213-412**	18,500.00
FLoid Printer, Paper Cartridge, Ink/Paper	4472351	**10-213-413**	237.00

EVOS™ FL Digital Inverted Fluorescence Microscope

Fully integrated all-in-one workstation

EVOS FL

The EVOS FL is an all-in-one, high-performance fluorescence microscope designed for efficiency and ease-of-use. The on-board computer and integrated imaging software allow users to capture, manage and save multichannel fluorescence images/data directly from the microscope.

- Camera: High-sensitivity monochrome, 1360 × 1024 pixels, 6.45µm/pixel; (Sony™ ICX285AL CCD)
- Software: Imaging software includes tools such as time-lapse, manual cell counting and transfection analysis
- Captured images: 16-bit monochrome TIFF or PNG (12-bit dynamic range); 24-bit color TIFF, PNG, JPG or BMP
- LCD display: 15" color, 1024 × 768 pixels; adjustable tilt
- Camera: High-sensitivity monochrome, 1360 × 1024 pixels, 6.45µm/pixel; (Sony ICX285AL CCD)
- Image acquisition: On-board computer; Intel™ Atom™ processor 1.8GHz; integrated imaging software via mouse control
- Software: imaging software includes tools such as time-lapse, manual cell counting and transfection analysis
- Captured Images: 16-bit monochrome TIFF or PNG (12-bit dynamic range); 24-bit color TIFF, PNG, JPG or BMP
- Output ports: Three USB 2.0 and one DVI
- Arm rest: For delicate cell isolation procedures (optional)

ORDERING INFORMATION:
Additional fluorescence light cubes are available but must be ordered separately (Mfr. Nos. AMEP-4650 through AMEP-4666). All objectives and fluorescence light cubes are available separately.

NOTES: Optional Arm Rest Kit must be ordered separately.

Objectives	Light Cubes	Mfr. No.	Cat. No.	Each
No objectives	No light cubes	AMF-4300	**12-563-460**	19,638.46

EVOS™ FL Auto Digital Inverted Fluorescence System

Fully automated fluorescence system offers the luxury of automation with the form and function of EVOS

EVOS FL Auto

The EVOS FL Auto is a high-performance, fully automated, digital fluorescence imaging system. The system comes with the automated microscope (contains two cameras), computer and touch screen monitor. Integrated software allows users to capture multichannel fluorescence images, perform time-lapse experiments and carry out full vessel scans.

- Optics: Infinity-corrected, RMS-threaded objectives with 45mm parfocal distance
- Cameras: Dual (monochrome and color camera)
- Illumination: LED (50,000+ hour life); adjustable intensity; instant ON/OFF; maintenance-free
- Contrast methods: Fluorescence and Transmitted light (brightfield or phase contrast)
- Objective turret: 5-position
- Condenser Working Distance: 60mm
- Automatic: Automated X–Y scanning stage
- LCD display: 22" color touch-screen monitor
- Dimensions: 18.6D × 13.5W × 12.7"H (47.2 × 34.3 × 32.3cm)
- Weight: 44.1 lb. (20kg)
- All objectives and fluorescence light cubes are available separately
- Available: Onstage Incubator (Cat. No. 12-563-550) that allows long-term monitoring of cell cultures and time-lapse imaging at high resolution. Environmental chamber enables precise control of temperature, humidity and three gases for time-lapse imaging of live cells under both physiological and nonphysiological conditions.

Description	Mfr. No.	Cat. No.	Each
EVOS FL Auto Fluorescence System	AMAFD-1000	**12 463 377**	50,876.92

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Want to learn more about EVOS Microscopes?

Visit www.fishersci.com and search for EVOS

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AMG Onstage Incubator for EVOS™ fl Auto Imaging System

Onstage incubation system allows long-term monitoring of cell cultures and time-lapse imaging at high resolution

For use with EVOS FL Auto Digital Inverted Fluorescence System (Cat. No. 12-463-377). The onstage incubator is an integrated environmental chamber that enables precise control of temperature, humidity and three gases for time-lapse imaging of live cells under both physiological and nonphysiological conditions.

The EVOS FL Auto Imaging System brings the simplicity of the entire EVOS line to an automated cell imaging platform capable of time-lapse imaging, area scanning, tile stitching and automated cell counting with a simple touch of a monitor — all at a price that is affordable for any lab. Environmental settings and image acquisition parameters are all seamlessly integrated into the system interface, creating a high-performance inverted imaging system with superb flexibility, ease of use and optical performance for demanding time-lapse imaging experiments.

Onstage Incubator:

- Intuitively set environmental and image acquisition parameters
- Easily maintain physiological or nonphysiological conditions with precise control
- Choose from a range of vessel holders
- Save lab space with a small footprint and sleek design
- Once captured, you can seamlessly create and export fluorescence or brightfield images as movies
- Create time-lapse images of every well of a 96-well plate, simultaneously
- Acquire time-lapse images in single plane or z-stacks
- Autofocus in each channel and data point
- Metadata and time stamps are included with each image frame of time-lapse movies

Onstage Vessel Holders

- Accommodate a variety of flasks, plates and dishes
- Maximize your choice of cell culture vessels when conducting time-lapse imaging experiments using system equipped with onstage incubator
- Allow a perfect fit of your microwell plates or cell culture flasks/dishes to the master plate of the onstage incubator for increased precision in sample alignment
- With a snug and secure fit, yet readily switched, these vessel holders make time-lapse imaging convenient and easy

EVOS FL Auto Imaging System, shown with Onstage Incubator

Onstage Incubator Specifications

- Compatible Vessels: Multiwell plates, 35mm dishes, 60mm Petri dishes, T-25 flasks
- Temperature Range: Ambient to 40°C
- CO_2 Range: 0-20%
- O_2 Range: 0% to ambient
- Humidity Range: >80% relative humidity at 37°C
- Dimensions: 25 × 19 × 3.7cm (environment chamber); 37 × 16 × 20cm (control unit)
- Weight: 1.5kg (environment chamber); 10kg (control unit)

Description	Mfr. No.	Cat. No.	Each
Onstage Incubator	AMC1000	**12-563-550**	14,454.55

Bioptechs™ Live-Cell Environment for EVOS™ SBS/96 Well Plate Stage

An integrated, convenient, reliable, live-cell micro-environment specifically designed for live-cell microscopy on an EVOS microscope

Based on Bioptechs™ Delta T™ technology, includes a feature rich temperature controller, SBS / 96 well sized dish holder, heated lid to prevent condensation and introduce CO_2, coverglass lid for uniform contrast images, culture cylinders for contaminant free cell plating and 10 Delta T™ dishes. An integrated, convenient, reliable live-cell micro-environment.

- Low mass to thermo-regulate as opposed to conventional stage heaters
- Plate cells directly to coverslip bottomed dish, incubate and observe
- Fast thermal recovery before, during and after perfusion (within seconds)
- Compatible with 160mm × 110mm and SBS / 96-Well Plate Stage for EVOS
- Works with both transmitted light (clear dish) and fluorescence applications (black dish)
- Coverglass bottom for optimum optical compatibility
- No need for warm air blowers or stage heaters
- Heat is directly and efficiently transferred to your cells
- Can also be cooled below ambient
- Perfusion available (Perfusion Configuration)
- No preheating

12-071-206

Description	Mfr. No.	Cat. No.	Each
Bioptechs Live-Cell Environment for EVOS SBS/96 Well Plate Stage	04200519	**12-071-206**	4828.85

ACCESSORIES

EVOS™ FL Fluorescence Light Cubes

12-563-469

Description	Mfr. No.	Cat. No.	Each
DAPI	AMEP-4650	**12-563-469**	2460.02
GFP	AMEP-4651	**12-563-470**	2460.02
RFP	AMEP-4652	**12-563-471**	2460.02
CFP	AMEP-4653	**12-563-472**	2673.37
YFP	AMEP-4654	**12-563-473**	2673.37
Texas Red™	AMEP-4655	**12-563-474**	2673.37
CY5	AMEP-4656	**12-563-475**	2673.37
Q-Dot 605	AMEP-4661	**12-563-480**	2993.40
Q-Dot 525-800	AMEP-4666	**12-563-485**	2993.40

ON THE WEB...

Looking for more EVOS Fluorescent Light Cubes?

Visit www.fishersci.com and search for EVOS Fluorescence Light Cubes

Bioptechs™ Live-Cell Environment for EVOS 160mm × 110mm Stage

An integrated, convenient, reliable live-cell micro-environment specifically designed for live-cell microscopy on an EVOS™ microscope

Based on Bioptechs Delta T™ technology, includes a feature rich temperature controller, 160 × 110mm format dish holder, heated lid to prevent condensation and introduce CO_2, coverglass lid for uniform contrast images, culture cylinders for contaminant free cell plating and 10 Delta T dishes

12-071-41

- Easily adapted to a wide variety of specimen types from monolayer adherent cells to brain slice and tissue preps
- Low mass to thermo-regulate as opposed to conventional stage heaters
- Plate cells directly to coverslip bottomed dish, incubate and observe
- Fast thermal recovery before, during and after perfusion (within seconds)
- Compatible with 160 × 110mm and SBS / 96-Well Plate Stage for EVOS
- Works with both transmitted light (clear dish) and fluorescence applications (black dish)
- Coverglass bottom for optimum optical compatibility
- No need for warm air blowers or stage heaters
- Heat is directly and efficiently transferred to your cells
- Can also be cooled below ambient
- Perfusion available (Perfusion Configuration)
- No preheating

ORDERING INFORMATION: The standard EVOS stage comes with an SBS / 96 well plate acceptance pattern. The 160 × 110mm stage-top plate is an alternate plate.

Description	Mfr. No.	Cat. No.	Each
Bioptechs Live-Cell Environment for EVOS 160 × 110mm Stage	04200511	**12-071-41**	4781.03

Carl Zeiss™ Primo Vert™ Inverted Microscope

The new standard for quick assessment and inspection of living cells

Attractive ergonomic industrial design with excellent optics is economical, with user-friendly and reliable handling.

- Automatic light (in addition to manual switch) shuts off light after 15 minutes
- Phase and brightfield contrasting techniques
- 30w halogen illumination
- 4-position nosepiece
- 20mm field of view

Infinity Optics

- Increased working distance with easy removal of condenser
- Objective indicators for fast identification of magnification
- Carrying handle on back of scope

APPLICATIONS:
For routine and cutting-edge research lab applications such as live cell inspection, cancer and HIV research, human, animal and plant genetics, cell biology

Carl Zeiss Primo Vert Inverted Microscope

Objectives	Condenser	Mfr. No.	Cat. No.	Each
With binocular tube				
4X, 10X Ph1	0.3	410999-0000-001	**12-070-466**	3320.00
4X Ph0, 10X Ph1, LD 20X Ph1	0.3	410999-0000-002	**12-070-467**	3960.00
4X Ph0, 10X Ph1, LD 20X Ph1, LD 40X Ph2	0.4	410999-0000-003	**12-070-468**	5090.00
With binocular phototube				
4X Ph0, 10X Ph1, LD 20X Ph1, LD 40X Ph2	0.4	410999-0000-004	**12-070-469**	5590.00

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Stereo Microscopes

Fisher Scientific™ Stereomaster™ Microscopes

Basic stereo microscopes for routine macro work

Built-in incident and transmitted lighting complements a two-magnification optical system and a rugged design.

12-562-11

Component

- Head: binocular head rotatable 360°; interpupillary adjustment and diopter adjustment
- Eyepieces: 10X or 15X wide-field, locked on; optional eyepiece/reticle also is available
- Illumination: equipped with upper and lower illumination; upper directable high-intensity variable-halogen lamp; lower transmitted illumination from a fluorescent lamp designed for low-heat output; three-position ON/OFF switch allows for use of each lamp individually or both lamps simultaneously
- Objectives: choice of models with 1X and 2X, 1X and 3X or 2X and 4X, for total magnifications from 10X to 60X
- Stage: fixed stage; removable stage clips and frosted-glass stage plate; black-and-white reversible stage plate is available
- Focus controls: rack-and-pinion focus controls with oversized knobs and slip-clutch mechanism
- Stand: rugged stand with chemical-resistant baked-on paint with stipple finish to resist fingerprints and smudges

ORDERING INFORMATION:
Overall dimensions: 10L × 7.5W × 14"H (25 × 19 × 35.5cm).

INCLUDES:
Stand, head, eyepieces, objectives, dual illumination systems, dust caps, dust cover and spare lamp

Specifications

Total Magnification	Field of View	Maximum Sample Height
10X	18.5mm	36mm
15X	14.5mm	36mm
20X	9.0mm	36mm
30X	6.5mm	36mm
40X	5.5mm	36mm
45X	4.5mm	36mm
60X	3.5mm	36mm

Objectives	Total Magnification	Cat. No.	Each
10X Eyepieces			
1X and 2X	10X and 20X	**12-562-11**	754.51
2X and 4X	20X and 40X	**12-562-13**	753.41
15X Eyepieces			
1X and 3X	15X and 45X	**12-562-15**	805.77
2X and 4X	30X and 60X	**12-562-16**	843.29

Fisher Scientific™ Stereomaster™ Zoom Microscopes

The highest level of optical clarity with a wide variety of configurations

Sensitive optical elements produce high-resolution, three-dimensional images. Large magnification range, easily increased via supplementary lenses. Illumination options let you customize to match your needs.

12-562-1

- High-quality zoom optics: parfocal zoom for continuous changing of magnification without refocusing
- Total magnification range of 7X to 45X
- Supplementary lenses and additional eyepieces available to produce different magnification ranges
- 88mm working distance with standard configuration
- Smooth-turning, side-mounted control knobs, rack-and-pinion focusing mechanism
- Eyepieces: 10X super-widefield eyepieces, adjustable for interpupillary distance and dioptric differences
- Head: binocular models available, with paired 10X eyepieces; heads rotatable 360°
- Finish: chemical-resistant baked-on paint with stipple finish to resist fingerprints and smudges

With Multipurpose Stand

- Ideal for general laboratory use
- Stand/Illumination: has oversized focusing knobs, frosted-glass stage plate, removable stage clips, high-intensity variable-halogen upper and lower illumination, ON/OFF switch allows for use of either or both lamps at once
- Dimensions of trinocular configuration: 10.5L × 7W × 17"H (27 × 18 × 43cm)

ORDERING INFORMATION: For 110V 50/60Hz.

INCLUDES: Dust caps and covers

Body	Total Magnification	Light Source	Cat. No.	Each
Stereomaster Zoom with Multipurpose Stand				
Binocular	7X to 45X	Dual halogen lamps	**12-562-1**	1684.11

ON THE WEB...

Looking for more Fisher Scientific™ Microscopes?

Visit www.fishersci.com and search for Fisher Scientific Microscopes

Stemi™ DV4 Series Stereomicroscopes with LED Illumination

Economical models with excellent resolution

- Double-lens Vario zoom, 4:1 zoom factor
- Mechanical correction for high resolution, definition and brightness with minimal reflection throughout range

Widefield 10X/20 high-eyepoint eyepiece

- Working distance, 92mm; viewing angle, 60°
- Can be used with optional 0.3, 0.4, 0.63 and 2.0X auxiliary objectives
- Sound, sturdy design; easy operation of essential controls

C Stand with LED Illumination (12-070-850)

- Similar to stand supplied with 12-070-374, but with LED illumination
- 130mm focusable microscope mount (76mm dia. support)
- Long-life LED illumination for cold and white light; 20,000 hour life cycle
- Tiltable illuminator for incident light and built-in illuminator for transmitted light 9.5mm threaded hole and 3mm ball-shaped Allen key
- Includes mains input plug EU, GB, USA/JP, AUS

12-070-850

Description	Zoom Range	Mfr. No.	Cat. No.	Each
Stemi DV4 with C Stand, LED illumination	8.0 to 32.0X	4354210000000	**12-070-850**	1762.00

Carl Zeiss™ Stemi™ 2000 Stereomicroscopes

For stereoscopic observation only

- Tapered front optics, convenient operating controls and a rounded base
- 35° angle binocular tube for convenient sample viewing while providing room for specimen manipulation
- Working distance: 110mm without additional objectives; 31 to 285mm with additional objectives
- Built-in magnification changer for manual adjustment with a 1 to 7 continuous zoom range (see Magnification Range chart for appropriate range with each available optic and eyepiece)
- Front lenses can be interchanged to alter the magnification range
- Mounted onto a heavy metal base stand with a 1.25" diameter (32mm) post for optical adjustment

INCLUDES:

- All models are supplied with 10X/23 focusing eyepiece; additional eyepieces and auxiliary objectives available (see below)
- 12-070-280 does not include illuminators; optional illuminators available; contact your Fisher Scientific Customer Service Representative.
- 12-070-281 does not include illuminators; optional illuminators available; contact your Fisher Scientific Customer Service Representative
- Plug-in supply 9VDC 5VA with 1.7m cable and EU, GB, US/JP, AU plug adapters

12-070-280

Specifications

Auxiliary Objectives		Eyepieces WPL 10X/23 High-eyepoint, Focusing		WPL 16X/16 High-eyepoint, Focusing		W 25X/10 Focusing	
Objective	Working Distance	Total Magnification	Object Field (mm)	Total Magnification	Object Field (mm)	Total Magnification	Object Field (mm)
0.3X	285mm	1.95X–15.0X	118.0–15.3	3.1X–24.0X	82.1–10.7	4.9X–37.5X	51.3–6.7
0.4X	210mm	2.6X–20.0X	88.5–11.5	4.2X–32.0X	61.5–8.0	6.5X–50.0X	38.5–5.0
0.63X	130mm	4.1X–31.5X	56.2–7.3	6.6X–50.4X	39.1–5.1	10.2X–78.8X	24.4–3.2
1.0X (none)	92mm	6.5X–50.0X	35.4–4.6	10.4X–80.0X	24.6–3.2	16.3X–125.0X	15.4–2.0
2.0X	31mm	13.0X–100.0X	17.7–2.3	20.8X–160.0X	12.3–1.6	32.5X–250.0X	7.7–1.0

Stemi 2000

Description	Mfr. No.	Cat. No.	Each
Stemi 2000 without light source	49212-09018	**12-070-280**	4030.00

Stemi 2000C

Description	Zoom Range	Mfr. No.	Cat. No.	Each
Stemi 2000C with photo/video port	7:1	492120-9020	**12-070-281**	5560.00

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Microscope Supplies

Slides

Fisherfinest™ Premium Plain Glass Microscope Slides

Clear, premium quality

- Water-white glass
- Precleaned, ready to use

12-544-1

Size	Cat. No.	Pack of 144	Case of 10 Packs
3 × 1"	**12-544-1**	68.10	583.00
75 × 25mm	**12-544-4**	80.40	688.50

Fisherfinest™ Premium Frosted Microscope Slides

With Superfrost™ marking area on one end, one side

- Excellent retention of markings in all normal procedures

12-544-3

NOTE: Sold as one gross (2 boxes of 72 slides each). A case contains 10 gross.

Size	Cat. No.	Pack of 144	Case of 10 Packs
3 × 1"	**12-544-3**	94.00	800.50
75 × 25mm	**12-544-2**	83.40	710.50

Fisherfinest™ Premium Extra-Thick Frosted Microscope Slides

Double frosted coating

- Highest purity, corrosion-resistant water-white glass is flat, ripple-free
- See specimens in true color, without distortion
- Packed in cellophane; slides stay clean until needed
- Handy dispenser box of 72 slides is dated to aid inventory control; holds slides upright for one-at-a-time dispensing

12-544-6

Size	Cat. No.	Pack of 144	Case of 10 Packs
3 × 1"	**12-544-6**	135.80	1163.00

Fisherfinest™ Premium Superfrost™ Microscope Slides

Superfrost coating allows marking with any pencil or pen

- Marking area and "SPECIMEN" are frosted on one side
- 1mm thick

12-544-7

Size	Cat. No.	Pack of 144	Case of 10 Packs
75 × 25mm	**12-544-7**	94.70	805.50

Fisherfinest™ Premium Full-Frosted Cytology Microscope Slides

With sandblasted frosting over one entire side

- Frosting disappears when cover slip is mounted over specimen — doesn't interfere with viewing
- 0.097 to 1.07mm thick

12-544-5CY

Size	Cat. No.	Pack of 144	Case of 10 Packs
3 × 1"	**12-544-5CY**	109.70	959.50

Fisherfinest™ Premium Clipped-Corner Microscope Slides

Ideal for manual blood smears

- Due to surface and edge quality, preferred for manual blood smears and other hematology applications
- Same high quality as other Fisherfinest slides, except all four corners are clipped
- Slides are more comfortable to handle and safer to use than conventional slides
- Choose from Superfrost™ tab, frosted tab or plain (no tab) slides
- Size: 75 × 25mm, 1mm thick

22-038-103

Description	Cat. No.	Pack of 144	Case of 10 Packs
Superfrost tab	**22-038-103**	100.90	855.00
Plain (no tab)	**22-038-104**	83.50	707.00
Frosted tab	**22-038-105**	90.90	769.50

Fisherbrand® Superfrost™ Disposable Microscope Slides

Superfrost coating impervious to most common laboratory chemicals and reagents

- Brilliant white, opaque coating takes and retains most laboratory marking methods
- Each side has a written key for easy orientation; the word "SPECIMEN" instantly tells you which side is up
- Slides can be imprinted with your laboratory or hospital's name (call your Fisher Scientific Sales Representative for details)

22-187-227

ORDERING INFORMATION:
Come in handy one-at-a-time dispenser boxes of 72 slides.

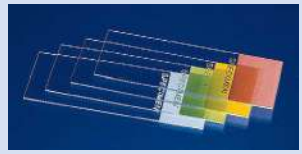
Size	Thickness	Cat. No.	Pack of 144	Case of 10 Packs
3 × 1"	1mm	**12-550-123**	90.30	769.00
3 × 1"	1.2mm	**12-550-133**	113.90	941.50
75 × 25mm	1mm	**12-550-143**	79.40	676.00
3 × 1"	1mm	**22-178-277** †	111.20	951.50

† *This slide undergoes additional quality control reviews.*

Fisherbrand® ColorFrost™ Disposable Microscope Slides

Color-coded frosted end for easy coordinating with tissue cassettes or other color systems

- Plain corners
- Same properties as Superfrost™, including chemical resistance and easy marking and reading
- Convenient "SPECIMEN" mark lends easy orientation



12-550, 22-214 and 22-037 Series

ORDERING INFORMATION: Thickness: 1.0mm.

Color	Cat. No.	Pack of 144	Case of 10 Pack
25 × 75mm			
Aqua	**22-037-077**	85.60	730.00
Blue	**12-550-403**	84.20	694.00
Burnt Orange	**22-037-079**	88.00	739.00
Gold	**22-037-080**	85.60	730.00
Green	**12-550-413**	84.20	694.00
Lilac	**22-037-081**	85.60	730.00
Pink	**12-550-423**	84.20	694.00
Tan	**22-037-078**	84.00	715.50
Yellow	**12-550-433**	84.20	694.00
3 × 1"			
Blue	**22-214-320**	101.70	872.00
Green	**22-214-338**	101.70	872.00
Pink	**22-214-346**	101.70	872.00
Yellow	**22-214-361**	101.70	872.00

Fisherbrand® Superfrost™ Slides

Durable and opaque

- Autoclavable
- Available in an array of tab colors
- Offered in standard and large sizes, for positioning larger specimens
- Durable, opaque tab is inert to common laboratory chemicals and reagents
- Packaged in paperboard box

Dimensions	Color (Label)	Cat. No.	Pack of 144	Case of 10 Pack
2.00 × 2.95 × 0.03" (51 × 75 × 1mm)	Clear	**12-550-021**	135.10	616.50
0.98 × 2.95" (25 × 75mm)	Clear	**22-034-980**	84.30	731.00
3 × 1" (76 × 25.4mm)	Green	**22-310-398**	81.50	713.00

Fisherbrand® Superfrost™ Clipped Corner Slides

45° clipped corner slide offers exceptional cleanliness and resistance to sticking

- Designed specifically for the Sysmex™ SP-100 slide prep unit
- Tight tolerances for the length and width help to reduce accumulation of glass chips within the instrument
- Corners are safer, less prone to chipping during handling
- Draws specimens away from edges
- Durable, opaque printed surface inert to common laboratory chemicals and reagents
- Autoclavable
- Size: 25 × 75mm, 1mm thick

12-550-016

Cat. No.	Pack of 144
12-550-016	85.10

Fisherbrand® Superfrost™ Plus and ColorFrost™ Plus Microscope Slides

An ideal choice for frozen sections, cytocentrifuge preparations and standard Papanicolaou smears

Feature the same outstanding performance as regular Superfrost and ColorFrost slides, except with a special treatment process that electrostatically adheres tissue sections and cells to the glass without need for special adhesives or protein coatings.

- Special treatment virtually eliminates tissue loss during staining; saves hours of slide preparation
- Chemical-resistant white marking surface on Superfrost Plus slides and colored marking surface on ColorFrost Plus slides for easy identification throughout procedures

ORDERING INFORMATION:
Size: 75 × 25mm.

12-550-15 through -20

Color	Cat. No.	Pack of 144	Case of 10 Packs
Superfrost Plus Slides			
White	**12-550-15**	160.30	1314.00
ColorFrost Plus Slides			
Aqua	**22-230-890**	160.10	1311.00
Burnt Orange	**22-230-892**	155.80	1277.00
Gold	**22-230-891**	155.80	1277.00
Green	**12-550-18**	153.20	1255.00
Pink	**12-550-19**	153.20	1255.00
Yellow	**12-550-20**	153.20	1255.00
Lilac	**12-550-16**	160.10	1312.00
Tan	**12-550-16A**	160.10	1312.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Selectfrost™ Microscope Slides

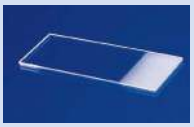
Color coded for easy identification

The Selectfrost microscope slides include colored tabs that allow grouping according to urgency, test, hospital or physician.

- 25 × 75 × 1mm
- Autoclavable
- Available in an array of tab colors
- Durable, opaque tab is inert to common laboratory chemicals and reagents
- Does not include SPECIMEN orientation key printed below tab
- Packaged in paperboard box

Color	Cat. No.	Pack of 144	Case of 10 Packs
White	**12-550-003**	53.10	451.00
Blue	**12-550-01**	57.80	489.00
Green	**12-550-02**	57.80	489.00
Pink	**12-550-03**	57.80	489.00
Yellow	**12-550-04**	56.20	476.00
Aqua	**12-550-05**	57.80	489.00
Burnt Orange	**12-550-06**	56.20	476.00
Lilac	**12-550-07**	56.20	476.00
Tan	**12-550-08**	57.70	489.00

Fisherbrand® Frosted Microscope Slides



Frosted Slides

- Sandblasted frosted writing area at one end
- Markings will not rub off or wash off in normal procedures

ORDERING INFORMATION: Approximately 1mm thick.

NOTE: Sold as one gross (2 boxes of 72 slides each). A case contains 10 gross.

Size	Frosted on	Cat. No.	Pack of 144	Case of
75 × 25mm	2 Sides	**12-552-5**	76.70	10 Gr./650.50
3 × 1"	1 Side	**12-550-343**	82.40	10 Pk./701.00
3 × 1"	1 Side	**22-265-446**	91.90	25 Pk./1949.00
Frosted	1 Side	**22-310-397**	92.90	10 Pk./835.00

Fisherbrand® Plain Glass Microslides

Individually selected for consistent quality

- Clear, corrosion-resistant glass with flat surfaces and ground edges
- Precleaned and ready to use in one-at-a-time dispenser boxes of 72 slides

12-550 series

ORDERING INFORMATION: Approximately 1mm thick.

Note: Sold as one gross (2 boxes of 72 slides each). A case contains 10 gross.

Size	Cat. No.	Pack of 144	Case of
75 × 38mm	**12-550B**	111.00	5 Gr./481.50
75 × 50mm	**12-550C**	157.60	5 Gr./686.00
75 × 25mm	**12-550D**	59.60	10 Gr./501.00

Fisherbrand® Bev-L-Edge™ Slides

Simplify blood smears with beveled edges and chambered corners

- For smoother, more uniform blood smears, draw beveled edge across a smeared slide at a 45° angle
- Frosted slides are frosted on both sides at one end

12-549-5

ORDERING INFORMATION:
Size: 3 × 1"; Thickness: 1.0mm.

Description	Cat. No.	Pack of 144	Case of 20 Packs
Plain Slides	**12-549-5**	48.85	406.00
Frosted Slides	**12-549-6**	33.95	574.50

Fisherbrand® Staining Control Slides

Allow staining of control and patient samples on the same slide with the same protocol

- Red box on the slide identifies the control tissue
- Frosted area provides a positive marking spot
- Superfrost™ Plus treatment secures tissue to the slide throughout the staining process

12-518-105

- Cat. No. 22-042-910 has an extended frosted area, allowing room for the addition of patient information and/or a bar code label
- Cat. No. 12-518-105 has a standard frosted area, allowing placement of large tissue specimens

Description	Cat. No.	Pack of 144	Case of 10 Pack
For Manual Staining Methods			
Standard Frosted Area	**22-035-819**	154.80	1324.00
For Automatic Stainers			
Standard Frosted Area	**22-042-910**	150.90	1291.00
Extended Frosted Area	**12-518-105**	209.00	----

Fisherbrand® Superfrost™ Plus Stain Slides

Permanent positive charge on the slide

- Eliminate background staining in standard H and E stains

Description	Cat. No.	Pack of 144	Case of 10 Packs
Superfrost Plus stain slides	**22-034-979**	146.50	1254.00

Fisher Scientific™ Tissue Path Superfrost™ Plus Gold Slides

Made with a revolutionary, new adhesive technology

- Attract and chemically bond fresh or formalin-fixed frozen tissue sections firmly to the slide surface
- Ideal for special stains, immunocytochemical and in situ DNA hybridization techniques when applied to fixed or frozen tissue sections
- Compatible with both toluidine blue and hematoxylin and eosin rapid frozen section stains

22-035-813

Packaging	Cat. No.	Each	Case of
Pack of 25 in Slide Box	**22-035-813**	68.10	20/1187.00
Bulk Pack of 144	**15-188-48**	112.90	10/987.50

Fisherbrand® Colormark™ Slide Cartridges for SHUR/Mark™ Labeling Systems

Background color makes etched patient information more visible

- Brightly coated with contrasting background color
- Self-contained packages ready for loading into your SHUR/Mark slide labeling system
- Simply remove the cover from the slide package and drop the sleeve into the loading bin of the SHUR/Mark labeling system
- Available with Plus formula to provide the utmost adhesion

22-035-815

Color	Description	Cat. No.	Pack of 144	Case of 10 Packs
Blue	----	**22-035-815**	105.80	909.50
Green	----	**22-035-816**	105.80	909.50
Pink	----	**22-035-817**	105.80	909.50
White	----	**22-035-814**	101.70	870.50
Yellow	----	**22-035-818**	105.80	909.50
Blue	Plus Charged	**22-038-325**	181.30	1533.00
Green	Plus Charged	**22-038-326**	181.30	1533.00
Pink	Plus Charged	**22-038-323**	181.30	1533.00
White	Plus Charged	**22-038-324**	176.90	1496.00
Yellow	Plus Charged	**22-038-327**	181.30	1533.00

Fisherbrand® Colormark™ Plus Microscope Slide

For use with SHUR/Mark™ labeling system

- Colormark slides are designed for slide etching instruments
- A contrasting color is printed on the back of the Superfrost™ end so that the patient or specimen information etched through the painted end on the front is clearly visible
- Lavender with black

Description	Cat. No.	Pack of 144	Case of 10 Pack
Standard Colormark Microscope Slide	**22-038-329**	122.80	1113.00

Fisherbrand® Microscope Slides with Clipped Corners

Designed for ease of use

These slides include consistent, 45° clipped corners which provide excellent cleanliness, resistance to sticking and ease of handling.

- 25 × 75 × 1mm

Description	Cat. No.	Pack of 144	Case of 10 Packs
Superfrost™; Opaque white	**22-038-100**	96.10	823.50
Plain	**22-038-101**	61.61	526.10
Frosted	**22-038-102**	68.30	583.50

Fisherbrand® Polysine-Coated Adhesion Slide

12-545-78

Description	Cat. No.	Pack of 144	Case of 10 Pack
Available in 25 × 75mm size	**12-545-78**	84.40	732.00

Thermo Scientific™ Gold Seal™ Plain Microslides

Noncorrosive glass with beveled edges for easy handling and margin-free smears

- Ground and polished edges
- Thickness: 0.97 to 1.07mm for 3 × 1" and 75 × 25mm slides; 1.1 to 1.3mm for 75 × 50mm slides
- Precleaned to ensure spotless appearance
- Packing box conveniently doubles as slide file

ORDERING INFORMATION:
Full case quantity packaged in Moistur-Barrier™ carton — no more dirty, stuck-together slides.

Size	Mfr. No.	Cat. No.	Pack of 144	Case of
3 × 1"	3010-002	**12-518-100A3**	18.58	25 Pk./387.04
75 × 25mm	3011-002	**12-518-100B**	51.70	25 Pk./1043.00
75 × 50mm	3021-002	**12-518-100G**	----	1728/1436.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Gold Seal™ UltraFrost™ Frosted Glass Slides

Precleaned slides with one end frosted; with or without label area

- Special frosting on one end for ease in marking slides
- Labeled slides have space for marking specimen number, patient name and date

12-518-100 Series

ORDERING INFORMATION:
In case of 25 packs; each pack includes two boxes of 72 slides (144 total).

Size	Frosted On	Mfr. No.	Cat. No.	Pack of 144	Case of 25 Packs
With Label					
75 × 25mm	1 side	3064-002	**12-518-104D**	----	1469.00
Without Label					
3 × 1"	2 sides	3056-002	**12-518-107**	----	1557.00
75 × 25mm	1 side	3063-002	**12-518-104C**	71.50	1419.00

Thermo Scientific™ Gold Seal™ Rite-On™ Frosted Microslides

White ceramic ink frosting on one end for easy marking; hard, colorless, noncorrosive glass

- 12-518-104 is an extra-strength slide
- One end has 3/4" (19mm) white ceramic ink frosting
- Precleaned, ready to use
- In boxes that convert to slide files

12-518-100 Series

Size	Thickness	Mfr. No.	Cat. No.	Pack of 144	Case of 25 Packs
Frosted on one side					
3 × 1"	0.97 to 1.07mm	3051-002	**12-518-103**	71.80	1429.00
75 × 25mm	0.97 to 1.07mm	3050-002	**12-518-101**	66.60	1323.00
Frosted on both sides					
3 × 1"	0.97 to 1.07mm	3017-002	**12-518-100C**	64.93	1286.93
3 × 1"	1.1 to 1.3mm	3052-002	**12-518-104**	77.50	1543.00

Thermo Scientific™ Superfrost™ Beveled Edge Microscope Slide

Exceptional adhesion and wettability; ideal slide for a variety of applications

- Ideal slide for a variety of applications

ORDERING INFORMATION: 1mm thick.

Size	Mfr. No.	Cat. No.	Pack of 144	Case of 10 Packs
5 × 75mm	4941-B4-4-604808	**12-550-002**	26.07	221.75

Thermo Scientific™ Gold Seal™ Fluorescent Antibody Microslides

Frosted at one end on one side; beveled edges for easy handling, margin-free smears

With two etched 10mm diameter circles surrounded by white ceramic ink.

12-568-20

ORDERING INFORMATION:
Thickness: 1.1 to 1.3mm. Supplied 72 slides per box, two boxes per pack.

Size	Mfr. No.	Cat. No.	Pack of 144	Case of 25 Packs
3 × 1" (76.2 × 25.4mm)	3032-002	**12-568-20**	105.35	2205.84

Thermo Scientific™ UltraStick™ Slides

Premium, water-white sheet glass with UltraStick coating provides superior adhesion of histological and cytological specimens

- UltraStick eliminates need to apply glues and adhesives
- UltraFrost™ writing area on one side allows for permanent labeling

ORDERING INFORMATION: 1mm thick. Packed in Moisture-Barrier™ cartons.

Size	Mfr. No.	Cat. No.	Case of 1440
25 × 75mm	3039-002	**12-568-21**	775.52

Thermo Scientific™ Gold Seal™ Beveled Microslides

Edges are beveled for easy handling and margin-free smears; diamond-ground edges for smoothness and uniformity

- In plain glass or frosted at one end on both sides
- Pure white glass for better light transmission; clipped corners; 1mm thick
- Optimum feathering; easy on fingers in handling
- Packed in Moistur-Barrier™ carton for optimum slide performance

12-518-100 Series

Size	Type	Mfr. No.	Cat. No.	Pack of 144	Case of
3 × 1"	Plain	3061-002	**12-518-100D**	57.30	25 Pk./1145.00
3 × 1"	Frosted	3062-002	**12-518-104B**	----	3600/1468.00
75 × 25mm	Plain	3057-002	**12-518-110A**	50.00	25 Pk./985.50
75 × 25mm	Frosted	3058-002	**12-518-110B**	69.80	25 Pk./1394.00

Cover Slips

Fisherfinest™ Premium Cover Glasses

The ultimate in purity and cleanliness for exacting work in histology, cytology, urinalysis and microbiology

12-548 Series

- Made of crystal-clear, pure water-white glass with uniform surface quality, precise squared edge, perfect flatness and exact dimensions
- Precleaned and packaged to stay clean
- Each glass is individually inspected and boxed in a molded plastic container for snugness and easy removal

ORDERING INFORMATION:
No. 1 thickness range: 0.13 to 0.17mm.

Size	Approx. Qty. per 1 oz. Pack	Cat. No.	Pack	Case of 10 Pack
In Pack of 1 oz.				
18 × 18mm	232	**12-548A**	37.31	318.90
22 × 22mm	156	**12-548B**	34.32	293.29
25 × 25mm	125	**12-548C**	36.25	304.50
22 × 30mm	116	**12-548-5A**	34.82	297.84
22 × 40mm	86	**12-548-5C**	34.76	296.66
22 × 50mm	68	**12-548-5E**	34.82	297.20
24 × 30mm	110	**12-548-5G**	34.60	295.69
24 × 40mm	78	**12-548-5J**	34.75	297.10
24 × 50mm	65	**12-548-5M**	35.20	296.50
24 × 60mm	55	**12-548-5P**	34.43	294.42
35 × 50mm	45	**12-548-5R**	37.63	321.52
In Bulk Pack of 4 oz.				
22 × 22mm	----	**12-544-10**	90.80	774.00
24 × 40mm	----	**12-544-12**	82.00	713.50
24 × 50mm	----	**12-544-14**	77.30	664.50

Fisherbrand® Superslip™ Cover Slips

Make your automatic cover slip machines run smoothly

12-545-87

- Built-in moisture resistance
- Excellent for use in humid environments

ORDERING INFORMATION: Thickness: No. 1.

Size	Approx. Qty. per 1 oz. Pack	Cat. No.	Pack	Case of 10 Pack
24 × 40mm	78	**12-545-87**	33.45	285.60
24 × 50mm	65	**12-545-88**	34.85	293.00

Fisherbrand® Unbreakable Cover Slips

Plastic; clear, noncurling

12-547

- 0.17 to 0.25mm thick

ORDERING INFORMATION: Pack of 1000 cover slips in boxes of 100.

Size	Cat. No.	Pack of 1000
22 × 22mm	**12-547**	86.40

Fisherbrand® Cover Glasses

Made of finest optical borosilicate glass, with uniform thickness and size

12-545F, 12-542A, 12-545-80

- Corrosion-resistant
- Lint-free and ready to use
- Available in squares, circles and rectangles

ORDERING INFORMATION:
Packed in 1 oz. (28g) plastic boxes with custom-molded bases for easy one-at-a-time dispensing.

Size	Quantity	Cat. No.	Pack of 1 oz.	Case of 10 Packs
Squares No. 1 - 0.13 to 0.17mm thick				
18mm	1/Pk.	**12-542A**	35.62	304.25
22mm	1/Pk.	**12-542B**	33.75	286.00
25mm	125	**12-542C**	34.35	293.58
Squares No. 1.5 - 0.16 to 0.19mm thick				
18mm	1/Pk.	**12-541A**	39.39	336.56
22mm	138	**12-541B**	36.75	311.00
Squares No. 2 - 0.17 to 0.25mm thick				
18mm	176	**12-540A**	24.75	211.00
22mm	1/Pk.	**12-540B**	24.30	205.00
25mm	93	**12-540C**	24.87	212.02
Circles No. 1 - 0.13 to 0.17mm thick				
12mm	1/Pk.	**12-545-80**	230.00	1989.00
18mm	1/Pk.	**12-545-100**	121.00	1059.00
22mm	Pk. of 1, Cs. of 10	**12-545-101**	94.20	813.50
25mm	1/Pk.	**12-545-102**	85.40	737.50
Circles No. 1.5 - 0.16 to 0.19mm thick				
12mm	597	**12-545-81**	228.50	1976.00
Circles No. 2 - 0.17 to 0.25mm thick				
18mm	1/Pk.	**12-546**	91.40	800.50
22mm	150	**12-546-1**	75.30	646.50
25mm	116	**12-546-2**	63.60	539.50
Rectangles No. 1 - 0.13 to 0.17mm thick				
30 × 22mm	116	**12-545A**	34.25	292.69
40 × 22mm	86	**12-545C**	35.10	297.00
50 × 22mm	1/Pk.	**12-545E**	34.14	291.49
30 × 24mm	Pk. of 1, Cs. of 10	**12-545B**	35.30	299.00
40 × 24mm	Pk. of 1, Cs. of 10	**12-545D**	33.60	284.50
50 × 24mm	1/Pk.	**12-545F**	34.80	294.50
55 × 24mm	56	**12-544-18**	43.00	364.00
60 × 24mm	Pk. of 1, Cs. of 10	**12545M**	35.95	304.00
50 × 35mm	45	**12-545G**	49.20	417.00
50 × 45mm	35	**12-545H**	42.73	365.00
60 × 22mm	58	**12-545J**	34.30	293.10
Rectangles No. 1.5 - 0.16 to 0.19mm thick				
30 × 22mm	100	**12-544A**	34.63	295.91
40 × 22mm	74	**12-544B**	33.90	289.23
50 × 22mm	59	**12-544D**	33.98	290.95
60 × 22mm	1/Pk.	**12-544G**	33.90	290.30
40 × 24mm	1/Pk.	**12-544C**	33.90	290.30
50 × 24mm	54	**12-544E**	33.70	285.00
50 × 45mm	30	**12-544F**	42.67	364.42
Rectangles No. 2 - 0.17 to 0.25mm thick				
40 × 22mm	62	**12-543A**	41.97	358.60
50 × 22mm	50	**12-543C**	41.58	355.27
50 × 24mm	45	**12-543D**	41.37	353.66
50 × 35mm	33	**12-543E**	41.88	357.63
50 × 45mm	26	**12-543F**	53.27	454.96
40 × 24mm	57	**12-543B**	41.58	355.27

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Gold Seal™ Cover Glasses

Noncorrosive borosilicate glass with patient-to-sample identification labels

- Sealed in moisture-resistant plastic case that converts to a 100-piece slide file with clear cover

ORDERING INFORMATION:
Available in 1 oz. packs and cases of 10 packs. Thickness: No. 1, 0.13 to 0.17mm; No. 1-1/2, 0.16 to 0.19mm; No. 2, 0.18 to 0.25m

12-518 Series

Thickness No.	Size	Approx. Qty. per 1 oz. Pack	Mfr. No.	Cat. No.	Pack of 1 oz.	Case of 10 Packs
Circles						
1	13mm dia.	454	3350	**12-519-21G**	281.50	2510.00
Squares						
1	22 × 22mm	165	3306	**12-518-105K**	26.74	228.15
1	25 × 25mm	128	3307	**12-518-105J**	----	236.00
1 1/2	22 × 22mm	140	3406	**12-518-213**	27.23	231.43
2	22 × 22mm	115	3506	**12-518-211**	20.52	174.67
Rectangles						
1	22 × 30mm	110	3313	**12-518-105A**	28.60	249.50
1	22 × 40mm	86	3316	**12-518-105B**	27.54	233.98
1	22 × 50mm	68	3317	**12-519-21B**	28.55	250.00
1	22 × 60mm	52	3318	**12-519-21C**	28.90	253.00
1	24 × 35mm	86	3320	**12-518-201**	----	235.00
1	24 × 40mm	74	3321	**12-518-105D**	27.80	236.10
1	24 × 50mm	65	3322	**12-518-105E**	28.60	243.00
1	24 × 60mm	52	3323	**12-518-202**	25.41	216.47
1 1/2	24 × 40mm	74	3421	**12-518-108B**	28.85	252.00
1 1/2	24 × 50mm	60	3422	**12-518-108A**	28.85	252.00
1	35 × 60mm	----	3328	**12-518-206**	----	213.82
1	48 × 60mm	----	3334	**12-519-21D**	25.57	217.00
1	48 × 65mm	----	3335	**12-518-210**	----	222.50

Corning™ Square and Rectangular Cover Glasses

Provide quality, reliability and performance for your laboratory microscopy needs

- Made from soda-lime glass and borosilicate glass with high clarity
- Available in square and rectangular shapes and in three standard sizes and thicknesses

ORDERING INFORMATION:
Packaged in plastic boxes for protection during storage.

Cover Glasses

Size	Material	Mfr. No.	Cat. No.	Each
Square No. 1, 0.12 to 0.16mm thick				
22 × 22mm	Borosilicate glass	2845-22	**12-553-451**	191.50
25 × 25mm	Borosilicate glass	2845-25	**12-553-452**	247.50
Square No. 1, 0.13 to 0.17mm thick				
18 × 18mm	Borosilicate glass	2845-18	**12-553-450**	127.70
Square No. 1.5, 0.16 to 0.19mm thick				
18 × 18mm	Borosilicate glass	2850-18	**12-553-453**	158.90
22 × 22mm	Borosilicate glass	2850-22	**12-553-454**	232.00
25 × 25mm	Borosilicate glass	2850-25	**12-553-455**	308.50
24 × 40mm	Borosilicate glass	2980-244	**12-553-470**	235.00
24 × 50mm	Borosilicate glass	2980-245	**12-553-471**	287.00
24 × 60mm	Borosilicate glass	2980-246	**12-553-472**	344.00
Square No. 2, 0.17 to 0.25mm thick				
18 × 18mm	Borosilicate glass	2855-18	**12-553-456**	78.50
22 × 22mm	Borosilicate glass	2855-22	**12-553-457**	117.50
Square No. 2, 0.19 to 0.25mm thick				
25 × 25mm	Borosilicate glass	2855-25	**12-553-458**	152.00
Rectangle No. 1, 0.13 to 0.17mm thick				
22 × 30mm	Borosilicate glass	2975-223	**12-553-459**	130.50
22 × 40mm	Borosilicate glass	2975-224	**12-553-460**	174.10
22 × 50mm	Borosilicate glass	2975-225	**12-553-461**	213.00
24 × 30mm	Borosilicate glass	2975-243	**12-553-462**	141.90
24 × 40mm	Borosilicate glass	2975-244	**12-553-463**	192.50
24 × 50mm	Borosilicate glass	2975-245	**12-553-464**	236.00
24 × 60mm	Borosilicate glass	2975-246	**12-553-465**	284.00
Rectangle No. 1.5, 0.16 to 0.19mm thick				
22 × 30mm	Borosilicate glass	2980-223	**12-553-466**	159.70
22 × 40mm	Borosilicate glass	2980-224	**12-553-467**	215.50
22 × 50mm	Borosilicate glass	2980-225	**12-553-468**	267.50
24 × 30mm	Borosilicate glass	2980-243	**12-553-469**	209.00
24 × 60mm	Soda-lime glass	2960-246	**12-553-424**	322.58

Slide Holders

Fisherbrand® Slide Holders and File Box

Index tabs on each holder for slide reference and classification

- Each holder accepts four slides, sizes 3 × 1" or 75 × 25mm
- Supplied with or without plastic filing box
- Slide holder set includes 12 5 × 3" (127 × 76mm) slide holders
- Holders can also be stored in the Fisherbrand Microslide Cabinet (Cat. No. 12-588-30)

Description	Cat. No.	Pack of 12
12 Slide Holders	**12-588-25**	29.85
12 Slide Holders with File Box	**12-588-20**	35.60

12-588-20 with extra 12-588-25 Slide Holders

Fisherbrand® Micro Slide Storage Cabinets and Bases

Each drawer divided lengthwise into two compartments for maximum space utilization

07-212-100

- Each cabinet holds up to 4500 3 × 1" or 75 × 25mm slides
- When stacked 12 cabinets high (with optional base), up to 54,000 slides can be stored in 2 sq. ft. of floor space
- Interlocking design works with all current Fisherbrand and Fisher Scientific™ metal microslide cabinets
- Unit contains six interchangeable drawers, each fitted with cardholder, choice of brass or plastic pull knob and two compressor blocks to maintain slides upright in partially filled drawers
- Available in dark beige, tan, green or white; Optional bases available with or without legs
- L × W × H: 18.75 × 15.75 × 4.75" (47.6 × 40 × 12.1cm)

Item	Cat. No.	Each
Slide Cabinets		
Dark Beige	**07-212-100**	429.55
Green	**07-212-101**	429.55
White	**07-212-102**	426.52
Tan	**07-212-103**	426.52
Base With Legs		
Dark Beige	**07-212-104**	230.24
Green	**07-212-105**	230.24
White	**07-212-106**	230.24
Tan	**07-212-107**	230.24
Base Without Legs		
Dark Beige	**07-212-108**	79.02
Green	**07-212-109**	79.02
White	**07-212-110**	79.02
Tan	**07-212-111**	79.02
Accessories		
Compressor Block	**07-212-113**	8.06

Fisherbrand® Microslide Holder

Heavy cardboard construction

12-587-16

- Holds two 3 × 1" or 75 × 25mm slides, with or without cover glasses
- Thumb groove
- Can be mailed in additional packaging (not supplied)

Description	Cat. No.	Pack of 36	Case of 12 Packs
Microslide Holder	**12-587-16**	66.49	662.81

Fisherbrand® Modular Microslide Storage System

Organize and protect slides

12-574

Fully modular system for long-term storage

- For 3 × 1" or 75 × 25mm slides
- Stores up to 100 slides per tray; each drawer holds up to 10 trays
- Available as complete five-drawer system or as individual components

Complete Storage System

- Includes five slide drawers, one drawer cover and locking connectors
- Holds up to 5000 slides in less than 4.5 cu. ft. (0.13m^3)
- Trays and wheels sold separately (see below)
- System is 16.5L × 16.5W × 30.75"H (42 × 42 × 78cm)

Slide Drawer

- Holds up to 10 slide trays
- Can be stacked and locked for custom-designed storage
- Without cover; one 12-574-6 cover required per stack

Slide Drawer Cover

- Protects slide trays in drawer
- One required for each single drawer or top of stack

Slide Tray

- Holds up to 100 slides vertically
- Made of tough ABS plastic
- Location of each slide up to 100 can be identified by a number molded into slide slot in the tray
- 1.5L × 14W × 4"H (4 × 36 × 10cm)
- Without cover; order 12-574-11 separately
- Numbered

Cover for Slide Tray

- Protects slides from dust and dirt
- Clear polystyrene for full visibility

Description	Cat. No.	Each
Five-drawer Storage System	**12-574**	560.50
Slide Drawer; holds 10 slide trays	**12-574-5**	235.58
Slide Drawer Cover	**12-574-6**	77.10
Slide Tray; holds 100 slides	**12-574-10**	110.50
Cover for Slide Tray	**12-574-11**	56.11
Screw-on Wheels	**12-574-15**	63.50

Fisherbrand® Cardboard Tray for 20 Slides

Slides lie flat on tray

12-587-10

- Heavy reinforced cardboard tray holds 3 × 1" or 75 × 25mm slides
- Spaces numbered to correspond with index on outside
- Doors are hinged for 360° opening; they do not lie directly on slides when closed

Cat. No.	Each	Case of 72
12-587-10	30.35	1651.24

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Microscope Slide Boxes with Numbered Slots

Durable storage boxes provide convenient protection for micro-slides in numbered slots

- Hold 3 × 1" or 75 × 25mm slides
- 25- and 100-slide capacity

03-446

Material	Capacity	Cat. No.	Each	Case of
Polypropylene	100 Slides	**03-446**	15.00	----
Polypropylene	25 Slides	**03-400-500**	20.95	72/1178.13
Paperboard	25 Slides	**22-026-920**	18.41	144/2067.99

Fisherbrand® Color-Coded ABS Plastic Boxes for 25 or 100 Slides

Provide dust-free storage; available in five colors

- Hold 3 × 1" and 75 × 25mm slides
- Numbered slide partitions correspond to numbered index card in lid
- Stackable
- 100-slide box comes with hinged lid

03-448-1 through -5

Color	Cat. No.	Each	Case of 72
Hold 25 Slides			
Blue	**03-448-6**	17.68	973.24
Green	**03-448-7**	17.68	973.24
Red	**03-448-8**	17.68	973.24
Yellow	**03-448-9**	17.68	973.24
White	**03-448-10**	18.98	1019.00
Hold 100 Slides			
Blue	**03-448-1**	31.19	1670.92
Green	**03-448-2**	31.19	1670.92
Red	**03-448-3**	31.19	1670.98
Yellow	**03-448-4**	31.19	1670.98
White	**03-448-5**	31.19	1670.92

Fisherbrand® Microscope Slide Box

Extremely durable and economically priced holder for standard microscope slides

- Capacity for twenty-five (25) 3 × 1" or 75 × 25mm standard slides
- Tight-fitting lid protects slides and prevents dust accumulation
- Durable molded black plastic construction
- Preprinted index card in lid for easy slide identification
- Front has tab area (tab included) for additional identification
- Base has interlocking grooves for stacking several units
- Slides stay securely in place with numbered slide partitions

22-363-400

Description	Cat. No.	Pack of 10	Case of 6 Pack
Fisherbrand Microscope Slide Box	**22-363-400**	116.09	633.21

WHY CHOOSE BLUE?

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Mills

Basic

Bel-Art™ Scienceware™ MicroMill™ Grinder

For rapid, high-speed grinding of small samples from 20 to 50mL

Stainless-steel or hard-faced blade rotates up to 12,000rpm to grind wide range of samples.

MicroMill Grinder

- High torque, 0.2hp (150w) motor delivers 30 oz.-in. (2.2kg-cm) torque at 12,000rpm
- Operates only when cover is latched
- Built-in heat exchangers maintain temperature
- Control panel features overload protection, reset button and pilot light
- Stainless-steel chamber is 2.13 dia. × 1" deep (54 × 25mm) inside an aluminum housing with an epoxy finish and nonskid rubber feet
- Housing and cover each have 0.25" (6mm) tubing connection for circulating water, methanol/dry ice liquid or liquid nitrogen
- Cover, grinding assembly and milling blade head are removable

ORDERING INFORMATION:
Overall dimensions: 5.5L × 7W × 11"H (14 × 18 × 28cm)

INCLUDES: Unit and standard 6' (1.8m) three-wire cord and grounded plug; stainless-steel or hard-faced blades

CERTIFICATIONS: CE marked

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Grinder with stainless-steel blades/grinding chamber and timer	115VAC 60Hz	H37252-0000	**08335**	2317.50
Replacement hard-faced blades	----	H37258-0000	**083354**	105.70

Foss™ Tecator™ Cyclotec™ Sample Mill

Self-cleaning, flow-through design for fast, uniform grinding of feeds, grains and leaves

TC1093-002

- Grinds samples with up to 10% moisture and oil content
- Maximum throughput: 4g/second, 40 samples/hour
- Maximum sample size: 10mm
- Hopper capacity: 100mL
- Motor: 0.5hp
- Maximum speed: 20,000rpm
- High-volume airflow enables self-cleaning and minimizes heat increase, thermal degradation and cross-contamination

Operation

- High-speed action rolls the sample against the inner surface of a durable grinding ring, then passes it through a fine mesh screen
- Resulting grist size depends on size of screen used

ORDERING INFORMATION:
Dimensions: 11.8D × 8W × 15.8"H (29.8 × 20.3 × 40cm); Accessories including 150mL bottle (TC1000-3679), replacement grinding ring (TC1000-4463) and screens are available online

INCLUDES:
Two 125mL sample bottles with snap-on caps; 0.5 and 1.0mm screens; Allen keys; and additional grinding ring and seal for grinding chamber

Description	Mfr. No.	Cat. No.	Each
Sample Mill	1093002	**TC1093-002**	6995.24
Sample Inlet Bin	10001900	**TC1000-1900**	377.34

Foss™ FiberTec™ E Extraction Unit

Dedicated for fibre determinations according to Weende, van Soest, etc., for hot hydrolysis and extraction with built-in systems for heating and filtration

- Six samples processed simultaneously
- With accessories for batch handling
- No sample transfer and no loss of sample
- Separate unit for solvent dehydration, lignin determination and defatting
- Extensive application service with high reproducibility
- Follows official methods such as ISO 6865, 92/89 EEC and AOAC 2002.04 (feed)
- Sample size: 0.5 to 3g
- Measuring range: 0.1% to 100%
- Repeatability: ±1% relative at 5% to 30% fibre level
- Capacity per day: Up to 36 analyses (crude fibre method acc. to Weende) per day
- Water supply: Tap water for condensors (~2L/min) and water aspirator (during filtration)
- Power supply: 200 to 230V ±10% 50 to 60Hz
- Power consumption: 1kW

TC10230012

INCLUDES: Hot Extractor, Reflector, Reagent Bottles, Hot Water Sprayer, Beaker, Funnel, Water Suction Pump, Antifoaming Agent, Tubing, Holder for 6 crucibles, Stand for 6 crucibles, Crucibles (P2 standard, 2 sets of 6), Manual

Description	Power Requirements	Mfr. No.	Cat. No.	Each
Fibertec E Hot Extration Unit	200-230V +/-10% 50-60Hz 1kW	FT350	**TC10230012**	15,700.00

Specialty

SPEX™ SamplePrep™ 2010 Geno/Grinder™

Versatile high-throughput plant and animal tissue homogenizer/ cell lyser with a unique vigorous up-and-down grinding/ pulverizing action

Model prepares plant material such as seeds, stems, roots, leaves, fruits, vegetables and animal tissue. Sample preparation is completed in about two minutes with the addition of 1-2 grinding balls to the sample along with a buffer solution.

20-101-15

- Handles two standard deep-well titer plates or multiple sample tubes from 0.6 to 50mL
- LCD screen displays both the full timer setting along with the minutes and seconds remaining in the grinding cycle
- Simple controls allow the operator to set the run time and precise vertical grinding speed between 500 and 1750 strokes per minute
- Safety interlocks and pneumatic cylinder stabilize the lid for safe operation
- Clamping mechanism latches have secondary locking tabs for additional safety
- Automated disruption of plant and animal tissue provides reproducibility and increased yields
- Elimination of cross-contamination

ORDERING INFORMATION:
Supplied with height adjustment spacers to handle titer plates, racks, vials, and other configurations of up to 2.25" in height. Optional large clamp assembly enables processing of up to four deep-well titer plates or up to 16x mL vials simultaneously.

Full range of Kryo-Tech™ cryogenic accessories available for temperature-sensitive samples.

Specifications	
Dimensions (D x W x H)	20.49 x 15.00 x 25.25" (52 x 38.1 x 64.1cm)
Weight	Approx. 75 lb.
Motor [hp]	1/3hp
Power Cord	3-prong grounded plug for 115V/60Hz
Height	1.25" (3.2cm) vertical
Speed	Adjustable from 500 to 1750 strokes/minute
Timer	Digital in minutes:seconds, maximum 5:00
Voltage	115V/60Hz

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Geno/Grinder	115V/60Hz	2010-115	**20-101-15**	17,956.74

SPEX™ SamplePrep™ 6970 Freezer/ Mill™ Cryogenic Grinder

Large high-throughput cryogenic laboratory impact mill designed to grind through the toughest and most temperature-sensitive samples

Ideal for samples that are impossible to grind at ambient temperature such as animal tissue, seeds, polymers, pharmaceuticals, food products, electronic components, textiles, hair, teeth and bone.

69-70D-115

With a self-contained liquid nitrogen tub and insulated case.

- Sample size: 50g to 100g
- Provides DNA/RNA extraction without shearing
- No loss of volatile compounds
- Samples are maintained at Liquid Nitrogen (LN) temperatures
- Totally enclosed LN auto-fill system with no LN exposure
- Vials can be cleaned or discarded to eliminate possible contamination
- Unique maintenance-free design (only one moving part)
- Touch screen interface capable of storing 10 grinding programs for rapid process replication and consistency

ORDERING INFORMATION:
Grinding containers and other optional accessories sold separately.

REQUIRES:
Liquid nitrogen (order separately)

CERTIFICATIONS:
CE marked

Description	Voltage	Mfr. No.	Cat. No.	Each
6970EFM Cryogenic Grinding Freezer/Mill	115V/60Hz	6970D-115	**69-70D-115**	18,880.00

ON THE WEB...

Looking for Accessories for Mills?

Visit www.fishersci.com and search for Mills

Spex SamplePrep™ 8530 Enclosed Shatterbox™ Swing Mill

Swing mill with sound-proof enclosure that accommodates sample sizes ranging from 2-100g

8530-115

- 8507R Multiple-Sample Rack permits processing of three smaller samples
- 10-min. electronic timer with LCD display and environmentally safe, push-button membrane switch
- Cam-activated clamp that requires only moderate hand pressure to secure the grinding dish in the Shatterbox and is adjustable for containers of different heights
- Equipped with lockable casters and a safety interlock system for operator protection
- Swings a dish-shaped grinding container with a puck and often a ring, in a tight high-speed circle
- Typical grinding time is two minutes or less
- Wide selection of grinding containers available including hardened steel, tungsten carbide, alumina ceramic and zirconia ceramic
- Ideal for pulverizing dry, brittle samples and slurry grinding

Specifications	
Voltage	115V/60Hz
Motor	1/2 hp, 835rpm
Power Cord	3-prong grounded plug
Dimensions	19 × 19 × 40" (48 × 48 × 102cm)
Weight	225 lb. (102kg)

Description	Mfr. No.	Cat. No.	Each
115 V/60Hz Version	8530-115	**8530-115**	13,210.00

SPEX ShaQer™ for QuEChERS SamplePrep

Offers high throughput and improved pesticide extraction for QuEChERS Sample Prep

ShaQer - closed view

- Safety interlock prevents unit from operating when lid is open
- Window allows analyst to view samples during operation
- Digital timer display (seconds and minutes) with adjustable operating time
- With spill tray for easy cleanup
- 1/7 HP motor with 1500rpm and 1.25" (3.2 cm) vertical clamp movement
- Clamp holds 6 x 15/50mL vials or 6 x 2/50mL vials
- 17D × 11.25W × 21.5" H (43.2 × 28.6 × 54.6cm)
- 40 lb. (22kg) weight

INCLUDES:
3-prong grounded plug (115V/60Hz), 2-prong European plug (230V/50Hz)

CERTIFICATIONS: CE marked

Rotor Speed	Mfr. No.	Cat. No.	Each
1500rpm	1500	**15-105-200**	7850.00

SPEX SamplePrep™ 8000D Dual Mixer/Mill™

Efficient two-clamp laboratory mill for pulverizing hard, brittle samples

8000-D

Also called a shaker mill or high-energy ball mill. Reduces samples to analytical fineness. Can be used for mechanical alloying.

- Sample size: 0.2 to 10g per vial (for grinding), up to 60mL (for blending or mixing)
- Two-sample capacity increases sample throughput
- Accepts grinding/mixing vials from 2.38 to 3.13" in length and up to 2.25" in diameter
- Speed: 1060 cycles/min. (back and forth)
- One or two samples can be processed simultaneously; however, if one sample is processed, a second empty vial must be inserted to maintain the balance of the system
- Features include a variable-range 100-min. electronic timer, START/PAUSE/STOP buttons, 0.33hp motor, dual clamps for multiple sample capacity, digital display, safety interlock system and forced-air cooling
- Optional adapters (8010 and 8011) permit processing of multiple samples in 0.5 × 1", 0.5 × 2" and 0.75 × 2" vials

ORDERING INFORMATION: Dimensions: 17L × 24W × 11"H (61 × 43 × 28cm); Net weight: 82 lb. (37kg); accessories available online

INCLUDES: Mill and power cord

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
High-energy ball mill with dual clamps	115V 60Hz	8000-D	**8000-D**	9661.87

SPEX SamplePrep™ 8000M Mixer/Mill™

A high-energy ball mill, shaker mill, or laboratory grinder used to grind, pulverize or mix samples to analytical fineness

8000M-115

Also used in mechanical alloying applications.

- Sample size range: 0.2 to 10g (grinding); 60mL (blending and mixing)
- Speed: 1060 cycles/min.
- Features include a variable-range 100-min. electronic timer, safety interlock system, START/PAUSE/STOP buttons and shock-mounted 0.33hp electric motor for tabletop operation
- Accepts grinding/mixing vials from 1.75 to 30.13" in length and up to 2.25" in diameter
- Adapters (8010 and 8011, order separately) permit processing of multiple samples in 0.5 × 1", 0.5 × 2" and 0.75 × 2" vials

ORDERING INFORMATION:
Dimensions: 14L × 19W × 18"H (48 × 36 × 46cm); Net weight: 76 lb. (35kg); for 115V 60Hz; accessories sold separately online.

INCLUDES: Mill and power cord

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
High-energy ball mill for 0.2 to 10gm sample	115V/60Hz	8000M-115	**8000M-115**	6794.03

SPEX™ SamplePrep™ 6770 Freezer/Mill™ Cryogenic Grinder

A cryogenic laboratory impact mill capable of processing many normally ungrindable samples

Used to prepare samples for DNA/RNA extraction, pharmaceuticals, mineralogical studies, medical research, plastics, polymers, plant and animal tissue, bone, and heat-sensitive materials. With a self-contained liquid nitrogen tub and insulated case.

6750-115

- Sample size: 0.1 to 5.0g
- Chills samples to liquid nitrogen temperatures
- Touchscreen interface with removable control panel
- Magnetically driven impactor is the only moving part; no mechanical linkages
- Separate closed grinding vials prevent cross-contamination and maintain sample temperature during grinding cycle
- Holds one sample vial (6751 or 6771) for grinding, with the capacity to hold two additional vials in a pre-cooling chamber
- Safety interlock

ORDERING INFORMATION:
Dimensions: 19.5L × 13.38W × 11"H (49.5 × 33.6 × 27.9cm); Net weight: 18 lb. (8.2kg); grinding containers and other optional accessories sold separately.

INCLUDES:
Grinder, Extractor/Vial Opener (6754), one Vial Rack (6755), 8" (20.3cm) controller interconnect cable and power cord

REQUIRES:
Liquid nitrogen (order separately)

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Small cryogenic mill	115V/60Hz	6770-115	**6770-115**	8935.88

Retsch™ Knife Mill Grindomix GM200

For size reduction, homogenization and mixing

08-418-560

- Two sharp, robust blades and a powerful motor
- Ideal for homogenizing substances with a high water, oil or fat content as well as grinding dry, soft and medium-hard products
- Efficient size reduction of up to 700mL feed quantity due to a powerful 900W motor
- Pre- and fine-grinding in one mill: cutting action in regular mode, grinding by impact in reverse mode, pre-grinding in interval mode
- All parts that come into contact with sample material are autoclavable
- Perfect adaptation to application requirements by variable speed from 2 to 10 min^{-1} with an increment of 100 min^{-1}
- Three SOPs can be stored

Specifications

- Feed material: soft, medium-hard, elastic, containing water/fat/oil, dry, fibrous
- Material feed size†: 40mm
- Final fineness†: 300µm
- Batch size/feed quantity†: 70mL (w/ standard lid); 300mL (reduction lid); 300-600mL (gravity lid)
- Grinding chamber volume: 1000mL (w/ standard lid); 500mL (reduction lid); 400-800mL (gravity lid)
- Setting of grinding time: digital, 1 sec. to 3 min.
- Interval operation: yes
- Power connection: 1-phase
- Protection code: grinding chamber and keypad IP-42
- Dimensions: 39.2D × 35W × 27.5Hcm (closed); 55.3 × 35 × 41cm (opened)
- 120V

COMPLIANCE: CE approved

† Depending on feed material and instrument configuration/settings.

Description	Mfr. No.	Cat. No.	Each
Knife Mill Grindomix	20.253.0002	**08-418-560**	4910.00
Stainless Steel Knife	24460014	**08-417-50**	192.80

Retsch™ PM 100 Planterary Ball Mill Grinding Jars

Specially designed for extreme working conditions such as long-term trials, wet grinding, high mechanical loads and maximum speeds as well as mechanical alloying

For use with Retsch PM 100 and PM 200 Planetary Ball Mills.

- Safe, nonslip seating with built-in anti-rotation device and conical base centering
- With O-ring for gastight and dustproof seal
- Lid is easy to grip and open

Capacity	Mfr. No.	Cat. No.	Each
Stainless-steel Jars			
50mL	014620149	**08-418-164**	1457.00
Zirconium Oxide Jars			
50mL	014620188	**08-418-173**	3950.00

08-418 Series

Mixers

Vortex

Fisher Scientific™ Mini Vortex Mixer

Mini in size, large in power

The Mini Vortex Mixer is an extremely compact vortex mixer with a horizontally circular, orbital mixing motion. The unique cup design accepts tubes and vessels of all sizes, including 15 and 50mL conical tubes.The convenient touch function activates the motor immediately upon contact with a tube or vessel. Simply press the center cup head, and the mixer provides a smooth, instant vortexing of samples.

14-955-151

- Speed: Fixed, 2800rpm
- Orbit: 4.5mm
- Dimensions: 3.8 × 3.8 × 2.5" (96 × 97 × 64mm)
- Weight: 1 lb. / 0.5kg
- Electrical: 100 to 240V, 50/60Hz (0.6A)

WARRANTY:
Two years

Electrical	Cat. No.	Each
115V, 50/60Hz	**14-955-151**	220.00

Fisher Scientific™ Analog Vortex Mixer

Variable speed, analog control that allows low rpm start-up for gentle shaking or high-speed mixing for vigorous vortexing of samples

Choose from two modes of operation: continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head.

- Continuous or touch modes
- Variable speed control
- Mixer includes both cup head and 3" head with cover

Fisher Scientific Analog Vortex Mixer

Specifications

- Speed Range, 120V: 300-3200rpm
- Orbit: 4.9mm
- Controls: 3-way power switch
- Speed knob: variable 1 to 10 dial marks
- Overall Dimensions: 4.8L × 6.8W × 4.8"H (12.2 × 17.3 × 12.2cm)
- Electrical: 120V 50/60Hz, 1.2A, 150w; 230V 50/60Hz, 0.6A, 150w
- Ship Weight: 11.7 lb. (5.3kg)

Description	Cat. No.	Each
US Plug	**02-215-365**	426.50

Fisher Scientific™ Pulsing Vortex Mixer

Produce excellent cell disruption for glass bead procedures

The Pulsing Vortex Mixer is capable of complete cell disruption of samples in only minutes. Unique pulsing action reduces heat generation while providing more effective mixing and disruption. System includes an easy-to-load holder for (12) 1.5mL or 2.0mL micro-centrifuge tubes. Micro-tube holder has a built-in cup head which allows mixer to be used as a standard vortex mixer in touch mode. Micro-processor feedback control maintains set speed for strong, consistent mixing action. LED displays for both speed (rpm) and time (minutes/seconds) which provides better repeatability and accuracy. Displayed time counts up during continuous mode and counts down during timed runs.

- Glass bead cell disruption/homogenization
- Continuous or touch modes
- Microprocessor controls

02-215-375

Specifications

- Speed Range, 120V: 500-3000rpm; 230V: 500-2500rpm
- Orbit: 2.5mm
- Controls: 3-way power switch
- LED display for time/speed
- Up/down arrow keys for set-point control
- Pulsing key
- Overall Dimensions: 4.8L × 6.8W × 4.8"H (12.2 × 17.3 × 12.2cm)
- Electrical: 120V 50/60Hz, 1.2A, 150w; 230V 50/60Hz, 0.6A, 150w
- Ship Weight: 11.7 lb. (5.3kg)

INCLUDES:
1.5 to 2.0mL microtube holder for 12 microtubes, cup head and 3" head with cover

Description	Cat. No.	Each
US Plug	**02-215-375**	663.50

Fisher Scientific™ Digital Vortex Mixer

Ideal for applications that demand repeatable results

Mixers feature touchpad controls and LED displays for accurate speed (rpm) and time (minutes/seconds) results. Micro-processor feedback control maintains set speed for strong, consistent mixing action. Timer will display elapsed time or when programmed to user defined time limit, the unit will shut off when the time reaches zero. Choose from two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head.

Fisher Scientific Digital Vortex Mixer

- Continuous or touch modes
- Microprocessor controls
- LED display for speed and time
- Mixer includes both cup head and 3" head with cover

Specifications

- Speed Range, 120V: 500-3000rpm
- Orbit: 4.9mm
- Controls: 3-way power switch
- Up/down arrow keys for set-point control
- Overall Dimensions: 4.8L × 6.8W × 4.8"H (12.2 × 17.3 × 12.2cm)
- Electrical: 120V 50/60Hz, 1.2A, 150w
- Ship Weight: 11.7 lb. (5.3kg)

Description	Cat. No.	Each
US Plug	**02-215-370**	508.00

Fisher Scientific™ Fixed Speed Vortex Mixer

One-touch units that are designed for high-speed mixing

Fixed speed vortex mixer starts mixing when the head is pressed down. Speed is fixed at full rpm to provide vigorous vortexing of samples.

Fisher Scientific Fixed Speed Vortex Mixer

- Touch mode operation
- Fixed high speed mixing
- Mixer includes both cup head and 3" head with cover

Specifications

- Speed Range, 120V: 3200rpm
- Orbit: 4.9mm
- Controls: None
- Overall Dimensions: 4.8L × 6.8W × 4.8"H (12.2 × 17.3 × 12.2cm)
- Electrical: 120V 50/60Hz, 1.2A, 150w;
- Ship Weight: 11.7 lb. (5.3kg)

Description	Cat. No.	Each
US Plug	**02-215-360**	361.00

Fisher Scientific™ Heavy-Duty Vortex Mixers

Strong, consistent mixing action up to 8 microplates with optional accessory attachments

Fisher Scientific Heavy-Duty Vortex Mixer

- Designed for continuous duty
- Heavy-duty design and efficient motor allow mixer to operate in continuous duty and handle all accessories over the entire speed range

Standard Model

- Variable speed analog mixer
- Choose from two modes of operation: Touch mode for mixing tubes when cup head or Universal Holder with cover are depressed; On mode when using any of the accessory attachments for continuous operation
- Controls: 3-way power switch; speed knob: variable 1–10 dial marks

Advanced Model

- Ideal for applications that demand repeatable results
- Touchpad controls and LED displays
- Accurate speed and time results
- Microprocessor control: 3-way power switch, LED display for time/speed up/down keys for set-point control
- Timer will display elapsed time or when programmed to a user-defined time limit, the unit will turn off when time reaches zero
- Choose from two modes of operation: Touch mode that activates mixing when depressing the cup head; Continuous mode when using accessory attachments

INCLUDES: Cup head, universal holder with cover, foam microtube insert for (38) 1.5 to 2.0mL microtubes and a 92" (234cm) detachable, three-wire cord and plug (230V available)

WARRANTY: Two years on parts and labor.

CERTIFICATIONS: CSA listed, CE marked.

Specifications	
Capacity	2.5 lb. (1.1kg)
Duty Cycle	Continuous
Orbit	4.9mm
Speed Range	On mode: 300 to 2500rpm; Touch mode: 300 to 3500rpm
Dimensions (L × W × H)	9.5 × 6.6 × 6.3" (24.1 × 16.8 × 16.0cm)
Weight	15 lb. (6.8kg)

Description	Plug Type	Mfr. No.	Cat. No.	Each
120V				
Standard Model	US Plug	9454FIHDUSS	**02-216-108**	844.50
Advanced Model	US Plug	9454FIHDUSA	**02-216-109**	951.50

Fisher Scientific™ Microplate Vortex Mixers

Designed for shaking microplates or tubes for strong, consistent mixing action

Standard Model

02-216-101

- Variable speed analog mixer design for continuous duty
- High speed and small orbit is optimal for mixing microplates
- Choose from two modes: Touch mode for mixing tubes when the cup head is depressed; On mode when using the microplate attachment for continuous operation
- Controls: 3-way power switch; speed knob: variable 1–10 dial marks

Advanced Model

- Ideal for applications that demand repeatable results
- Touchpad controls
- LED display
- Accurate speed and time results
- Choose from two modes: Touch mode that activates mixing when depressing the cup head; Continuous mode when using accessory attachments
- Microprocessor control: 3-way power switch, LED display for time/speed up/down keys for set-point control
- Timer displays elapsed time or can be programmed to a user-defined time limit
- Timer will shut off when time reaches zero

INCLUDES: Cup head, single microplate holder and 92" (234cm) detachable, three-wire cord and plug

WARRANTY: Two years on parts and labor

CERTIFICATIONS: CSA listed, CE marked.

Specifications	
Duty Cycle	Continuous
Orbit	3.5mm
Speed Range	On Mode: 300 to 2500rpm; Touch Mode: 300 to 3500rpm
Dimensions (L × W × H)	10.5 × 5.4 × 4.5" (26.7 × 13.7 × 11.4cm)
Weight	12 lb. (5.4kg)

Description	Plug Type	Cat. No.	Each
120V			
Standard Model	US Plug	**02-216-100**	488.50
Advanced Model	US Plug	**02-216-101**	510.00

Fisher Scientific™ MultiTube Vortexers

Mix up to 50 samples at once

Vortexing action is created by holding the top tray of the vessel securely in place while the bottom tray moves freely in a defined, 3.6mm eccentric orbit.

02-215-452

- Powerful permanent, continuous-duty motor delivers quiet, rattle-free mixing
- Top plate adjusts along two stainless-steel posts; removable for easy sample access
- Rugged corrosion-resistant, stainless-steel base
- Suction-cup feet dampen motion and prevent sliding
- Orbit: 3.6mm

Digital Multi-Tube Vortexer

- Microprocessor-controlled for precise, repeatable results
- LED display for speed and time
- Speed range: 500-2500rpm (25rpm increments)
- Programmable timer (1 sec. to 160 hrs.)
- Timed or continuous-run modes
- Pulsing program can be operated in either mode

Analog Multi-Tube Vortexer

- Speed range: 1200-2400rpm
- Automatic timer (0 to 60 sec. for simple repeat procedures)

ORDERING INFORMATION:
Dimensions: 9.5L × 15W × 16"H (24.1 × 38.1 × 40.6 cm). Accessory test tube and centrifuge racks and post extension kit are available separately online. Ship weight: 42 lb. (19kg)

INCLUDES: One 50-place foam rack for 12mm test tubes, one tray pad set for mounting and support plates, 92" (234cm) detachable three-wire cord and plug.

WARRANTY: Two year limited.

CERTIFICATIONS: UL, CUL listed; CE marked.

Electrical Requirements	Cat. No.	Each
Digital		
120V 50/60Hz, 5A, 75w	**02-215-452**	3650.00
Analog		
120V 50/60Hz, 5A, 100w	**02-215-450**	2500.00

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Prices subject to change.

ACCESSORIES

Single Tube Holders

For use with Fisher Scientific vortex mixers

- Mount atop mixer for single-tube, hands-free mixing
- Easily attach without tools

02-215-404

Description	Cat. No.	Each
Single Tube Holder	**02-215-404**	144.30
Adapter for Vortex-Genie™ Mixers	**02-215-405**	75.60
0.5mL MicroTube Holder	**02-215-402**	67.70
1.5/2.0mL MicroTube Holder	**02-215-403**	64.30

ON THE WEB...

For additional accessories for Mixers

Visit www.fishersci.com and search for Vortex Mixer Accessories

Thermo Scientific™ MaxiMix™ I Vortex Mixer

Excellent for single and multiple tubes and small flasks with closed tops

- Fast, uniform mixing in continuous operation or touch-on mode
- Simultaneously mixes up to four test tubes
- Push-button top-mounted ON/OFF switch
- Vary vortex mixing by simply changing pressure of tube against foam rubber top
- Durable, white plastic case resists acids and alkalis
- Cast-aluminum base with suction-cup rubber feet provides maximum stability
- Compact design with 4" diameter (10.2cm) foam rubber top

12-815-50

APPLICATIONS: Enzymatic and RIA assays, general test tube mixing, biochemical assays, vortexing cell suspensions, mixing tissue samples, viral dilution preparations, precipitated assays

INCLUDES:
One extra foam top (12-814-1), three-wire power cord and plug

CERTIFICATIONS: 120V model is CSA approved.

Specifications	
Speed Range	3000rpm
Tube Capacity	1 to 4
Platform, Foam Pad	4" (10.1cm)
Exterior L × W × H	5.5 × 5.5 × 4.2" (13.9 × 13.9 × 10.6cm)
Shipping Weight	3.5 lb. (1.5kg)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 0.5A	M16715Q	**12-815-50**	424.32

Thermo Scientific™ LP Vortex Mixer

Continuously mix or pulse

- Low-profile design with small footprint
- Continuous or pulsing functions
- Speed Control: 0 to 300rpm
- Built-in safety features regarding current overload

11-676-331, -332

ORDERING INFORMATION: Wide variety of optional accessories to accommodate different vessel types.

Specifications	
Speed Range	0 to 3000rpm
Operating Mode	Continuous / Touch
Max. Load	1.1 lb. (0.5kg)
Dimensions (L × W × H) without attachments	8.3 × 6.1 × 3.3" (210 × 154 × 83mm)
Weight	6.8 lb. (3.1kg)
Electrical Requirements	100 to 240V, 50/60Hz
Certifications	Certifications CE
Warranty	2 years

Plug Type	Mfr. No.	Cat. No.	Each
US plug	88880017	**11-676-331**	450.00
Cord set w/various plugs	88880018	**11-676-332**	460.00

Thermo Scientific™ MaxiMix™ III Vortex Mixer

Performs functions of four separate apparatus, saving valuable bench space in labs and clinics

Unit features four interchangeable mixing and shaking accessories for large volume mixing, variable speed control and continuous, trouble-free shaking. Depending on the application, use the foam pad, universal holder, utility tray or flask holder.

12-815-20Q

- Precise matching of an electronic speed control to a high torque DC type motor provides versatile speed selection ranging from 100 to 2200rpm
- Soft foam rubber top 6.3 × 5.5" (15.8 × 13.9cm) allows vortexing multiple test tubes and small flasks
- Lighted main power switch indicates mixer is operating
- High-torque DC motor for consistent mixing action
- Heavy, cast-aluminum base with counterbalance system for strength and stability
- Spring-dampened feet eliminate "creeping and walking" during large volume mixing
- Continuous trouble-free shaking of loads up to 5 lb. (2.2kg)

INCLUDES: One soft foam rubber pad (PT500X6A)

CERTIFICATIONS: CSA listed (120V models only).

Specifications	
Speed Range	100 to 2200rpm
Platform L × W	15.8 × 13.9cm (6.3 × 5.5")
Load Capacity	2.2kg (5 lb.)
Exterior L × W × H	21.5 × 16.5 × 13cm (8.5 × 6.5 × 5.1")
Base	Heavy cast aluminum
Motor	DC
Shipping Weight	7.7kg (17 lb.)

Electrical Reqts.	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 0.4A	M65825Q	**12-815-20Q**	1537.00

Specialty

Fisher Scientific™ Heat/Cool Thermal Mixer

Includes thermal base, platform for 20 × 1.5/2.0mL tubes

- Digital microprocessor control for standard operation and ON/OFF mixing
- Ten programmable settings per set function
- Adjustable speed
- Temperature range from 18°C below ambient to 99°C for greater functionality in the life science lab
- Four available interchangable platforms accommodate MC tubes, standard/deep-well plates and PCR strip/plates (order separately)
- Power Pack is UL, CSA and CE approved

05-450-206

ORDERING INFORMATION: Replacement part: 20 × 1.5/2.0mL platform (05-450-207); optional 20 × 0.5mL platform (05-450-208), 96-well PCR platform (05-450-209), and standard/deepwell MTP platform (05-450-210) are available separately

INCLUDES: Thermal base, platform for 20 × 1.5/2.0 tubes

WARRANTY: 2-year warranty

Specifications	
Speed Range	250 to 1400rpm
Capacity	20 × 1.5/2.0mL
Orbit	2mm
Heatup Time	5°C/min.
Cooldown Time	2° to 3°C between 99°C and ambient 0.5° to 1°C at ambient
Stability	±0.2°C
Uniformity	±0.2°C
Timer [Range]	1 min. to 99 hrs.
Timer [Resolution]	1 min.
Temperature [Range]	Ambient -18°C to +99°C
Dimensions	9L × 8W × 5"H (23 × 20.5 × 13cm)
Electrical Requirements	115/230VAC Adapter

Description	Cat. No.	Each
Heated and cooled thermal mixer	**05-450-206**	3020.00

Fisher Scientific™ Microtube Thermal Mixer

Compact for tight lab spaces

15-600-115

Use as a benchtop incubator (without shaking), as a thermal mixer or as a microtube shaker. Offers rapid heatup. Allows timed or continuous operation and is suitable for coldroom operation.

- Capacity: 20 × 1.5/2.0mL microtubes
- Speed range: 250 to 1400rpm
- Orbit: 2mm
- Temperature range: Ambient +5° to 100°C
- Temperature stability/uniformity: ±0.2°C/±0.2°C
- Timer: 1 min. to 96 hrs. with auto shutoff (1 min. increments)

ORDERING INFORMATION:
Microtube Thermal Mixer: 8L × 9W × 5"H (20.5 × 23 × 13cm).
For 115/230V 60Hz, 0.5A

INCLUDES:
Thermal mixer base and heating block

WARRANTY:
Two years

CERTIFICATIONS:
Power pack is UL, CE and CSA approved.

Description	Cat. No.	Each
Microtube Thermal Mixer	**15-600-115**	2244.30

Heidolph™ Reax Vortex Mixer

Ideal for mixing samples in tubes, vials and similar vessels of different diameters at extremely high speed rates

- Strong 5mm vibrating orbit
- Operating modes: Continuous and Automatic
- Rotation Speed: 0 to 2500rpm
- Analog dial speed control, no setings of specified rpm
- Plate for 20mm diameter test tubes is included as standard
- Test tube tray for flasks up to 50mm diameter are optionally available in accessory section
- Voltage: 115V (220V upon request)
- Input Power: 51w
- Dimensions: 134 × 105 × 172mm (W × H × D)
- Overheat Protection: Self resetting
- Permissible ambient temp: 5-40°C at 85% rel. humidity
- Protection Class: IP 22

ORDERING INFORMATION:
Accessories and 220V options available.

WARRANTY: 3-Year

13-889-310

Model	Orbit	Rotation Speed Setting	Range	Mfr. No.	Cat. No.	Each
Reax Top	5mm	Analog	Up to 2500rpm	036130000	**13-889-310**	349.00
Reax Control	5mm	Electronic Control	Up to 2500rpm	036130020	**13-878-452**	794.00
Multi Reax	3mm	Digital	150 to 2000rpm	036130040	**13-889-410**	2550.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Eppendorf™ Thermomixer™

Compact, affordable shaker offers independent mixing and incubating

Features

- Mixing capacity: 24 × 1.5mL tubes
- Temperature range: 4°C above ambient to 99°C
- Mixing speed range: 300 to 1400rpm
- Digital display for set and actual readings
- Short-mix function for quick vortex applications

05-400-200

ORDERING INFORMATION:
Dimensions: 9.5L × 6.5W × 5.25"H (24 × 16.5 × 13.5cm).

INCLUDES:
Autoclavable, numbered, freezer-safe rack and block for 1.5mL tubes

Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 50/60Hz	022670000	**05-400-200**	2905.77
220V 50/60Hz	022670051	**05-400-201**	2905.77

Eppendorf™ Thermomixer™ R

Heats, shakes and cools samples all in one unit

Speeds reactions by combining multiple sample preparation steps.

Features

- 10 different exchangeable thermoblocks
- Automatic identification and display of maximum revolutions
- Processes up to 24 microtubes at once
- Digital display shows both both set and actual parameters
- Simple controls
- Adjustable temperature from 13°C below ambient to 99°C
- Variable mixing speed from 300 to 1400rpm (up to 1500rpm with 0.5mL tubes)
- Programmable for intermittent mixing with timed rest phases — ideal for enzyme reactions and DNA hybridizations
- Short-mix function supports quick vortex applications
- Store parameters for common applications
- RS-232-C printer interface

05-400-205

ORDERING INFORMATION:
Dimensions: 9.75L × 8.75W × 4.75"H (25 × 22 × 12cm).
Net weight: 7 lb. (3.2kg).

REQUIRES:
Thermoblock (sold separately)

Description	Mfr. No.	Cat. No.	Each
Thermomixer R without Block, 220V	022670107	**05-400-205**	3754.17
Thermomixer R without Block, 115V	022670158	**05-400-206**	3754.17
Thermomixer R with two Blocks, 120V	022679815	**05-412-401**	5100.00

Eppendorf™ MixMate™

Efficiently mixes 384-well samples to down to 5µL

21-379-00 with supplied tube holder

Easy to use, with an integrated vortexing function that provides precise control for thorough mixing. Unique 3-in-1 mixing process optimizes speed, mixing movement and mixing radius for efficient, consistent results down to 5µL. Perfect for mixing low-volume samples in 384-well plates. MixMate accepts microtubes, PCR plates, deepwell plates and microtiter plates.

- Mixing frequency: 300 to 3000rpm (in 50rpm increments)
- Touch vortexing frequency: 3500rpm
- Mixing and vortexing radius: 1.5mm (3mm mixing stroke)
- Timed (15 sec. to 99.5 hrs.) or continuous-run modes
- Small footprint: 17 × 23cm
- Extremely quiet running (<50dBA) even at maximum load
- Digital display and softkey controls for setting/viewing mixing duration and speed
- Preprogrammed keys for each tube or microplate type automatically run ideal mixing parameters when selected
- Vortexing feature includes two-second stop time delay for efficient and continuous vortexing without having to continuously restart the vortexer
- Stable design ensures sturdiness, even at maximum mixing frequency
- Reliable universal holder ensures safety and stability of all tube/plate platforms
- Automatic load imbalance detection prevents sample loss
- IVD conformity

ORDERING INFORMATION:
Dimensions: 9L × 6.6W × 5"H (23 × 17 × 13cm); For 120V 60Hz, 40w.

INCLUDES:
Three tube holders: 96 × 0.2mL PCR, 24 × 0.5mL and 24 × 1.5/2.0mL

WARRANTY:
Two years

Description	Mfr. No.	Cat. No.	Each
Plate and tube mixer, 120V	022674200	**21-379-00**	2289.00

Mortars and Pestles

Fisherbrand® Porcelain Mortars

Glazed outside except bottom and unglazed inside

- With lip
- Deep form
- Export quality
- Color: white
- Available in various capacities

FB-961-A

Capacity	Height	Inside Diameter	Outside Diameter	Cat. No.	Each	Case of
0.0132 gal. (50mL)	1.85" (47mm)	2.16" (55mm)	2.76" (70mm)	**FB-961-A**	42.15	18/761.50
0.0172 gal. (65mL)	2" (52mm)	2.56" (65mm)	3.15" (80mm)	**FB-961-B**	46.85	18/847.00
0.0396 gal. (150mL)	2.76" (70mm)	2.95" (75mm)	3.54" (90mm)	**FB-961-C**	60.50	12/735.50
0.0726 gal. (275mL)	2.76" (70mm)	3.74" (95mm)	4.53" (115mm)	**FB-961-D**	78.10	8/633.50
0.1057 gal. (400mL)	3.15" (80mm)	4.33" (110mm)	5.12" (130mm)	**FB-961-E**	110.20	8/898.50
0.1981 gal. (750mL)	4.3" (110mm)	5.31" (135mm)	6.3" (160mm)	**FB-961-F**	152.30	4/621.00
0.5019 gal. (1900mL)	5.1" (130mm)	7.09" (180mm)	8.3" (210mm)	**FB-961-G**	449.47	2/598.95

Fisherbrand® Porcelain Pestles

For hand comfort in grinding

- Unglazed on grinding surface
- Autoclavable
- Oversized

FB-961-K

Length	Cat. No.	Each	Case of
4.49 in. (114mm)	**FB-961-K**	45.75	18/826.50
5.1" (130mm)	**FB-961-L**	20.58	18/370.44
6.2" (157mm)	**FB-961-M**	24.88	12/298.56
7 in. (180mm)	**FB-961-N**	29.86	8/238.88
7.6 in. (194mm)	**FB-961-O**	27.57	8/220.56
8.7 in. (222mm)	**FB-961-P**	58.50	4/234.00
10.3 in. (262mm)	**FB-961-Q**	104.05	4/416.20

CoorsTek™ Variety Glass Clear Glass Mortar and Pestle Sets

Provide clear view of contents

- Mortar has heavy molded base and lip
- With clear glass pestle
- Offer clear view of materials

12-970, 10-381-2 series

Capacity	O.D.	Mfr. No.	Cat. No.	Each	Case of 12
2 oz.	$3^1/_2$" (8.9cm)	826-2	**12-970A**	55.30	489.50
4 oz.	$3^7/_8$" (10cm)	826-3	**12-970B**	57.20	506.00
8 oz.	$4^3/_4$" (12cm)	826-4	**12-970C**	68.40	605.00
16 oz.	$5^3/_8$" (13.5cm)	826-5	**10-381-2**	45.15	----

Agate Mortar and Pestle Sets

Thick, heavy wall

- Octagonally shaped, thick walled, agate mortar with pestle
- Both have highly polished grinding surface

12-950B

O.D.	Cat. No.	Each
2" (50mm)	**12-950AA**	136.20
2.5" (65mm)	**12-950A**	193.90
3" (75mm)	**12-950BB**	266.00
3.75" (95mm)	**12-950B**	442.50
4" (100mm)	**12-950C**	518.00
5" (125mm)	**12-950D**	919.50
6" (150mm)	**12-950E**	1794.00

Bel-Art™ Scienceware™ Liquid Nitrogen-Cooled Mortar

For safely chilling and grinding frozen tissue samples without the hazards of liquid nitrogen

- Stainless-steel mortar is suspended by brackets above stainless-steel bowl of liquid nitrogen
- Removable stainless steel mortar has insulated 10cm handle
- Bowl and mortar rest in insulated polyethylene housing with three suction cup feet for stability
- Housing measures 16.5cm diameter × 11.4cm high
- Use with pestle appropriate for 275mL mortar, pestle not included
- Spare stainless steel mortars available for processing different samples and avoiding cross contamination

12-947-1

ORDERING INFORMATION:

Housing measures 6.5 dia. × 4.5"H (16.5 × 11.4cm).

Description	Mfr. No.	Cat. No.	Each
Mortar, bowl and housing	H37260 0000	**12-947-1**	365.82
Mortar only†	H37260 0001	**12-947-2**	125.50

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Nucleic Acid Research

Nucleic Acid Purification

Automated Purification

Thermo Scientific™ KingFisher™ Duo

Low- to medium-throughput system consisting of the KingFisher Duo magnetic particle processor instrument, optimized DNA/RNA isolation kits, plastic consumables and BindIt™ software

14-387-290

The flexible, open system of the KingFisher Duo enables users to select from a variety of starting materials, from blood and other body fluids to cells and tissue samples, allowing a single instrument to be used for a variety of applications. As a stand-alone unit, it is able to save and run log files, while in combination with the Thermo Scientific BindIt software, users are provided with absolute traceability and complete data management. Protocols can also be developed and protected using this dedicated software, which can be imported directly to the instrument via a USB stick. Flexible, fast and compact size system for diverse applications.

- Process a variety of sample types in volumes ranging up to 5mL
- Optimized DNA and RNA isolation kits and protocols for exquisite performance
- Excellent traceability with complete data management

APPLICATIONS: DNA and RNA isolation from various starting materials, proteomic applications, cell isolation

Description	Mfr. No.	Cat. No.	Price
KingFisher Duo	5400100	**14-387-290**	24,910.00

ACCESSORIES

Thermo Scientific™ KingFisher™ Duo Consumables

Designed specifically for use with these instruments

Description	Quantity per Pack	Mfr. No.	Cat. No.	Each
12-tip comb, for Microtiter 96 Deepwell plate	50 pieces	97003500	**14-387-291**	79.80
6-tip combs and KingFisher 24 deepwell plate (12 pcs of 24 DW plates, each including 4 tips combs)	48 pieces	97003510	**14-387-292**	164.80
Elution strip	40 pieces	97003520	**14-387-293**	64.60
Combi pack for Microtiter 96 Deepwell plate (tips combs, plates and elution strips for 96 samples)	Each	97003530	**14-387-294**	87.70

Thermo Scientific™ KingFisher™ Flex Magnetic Particle Processors

For DNA/RNA, protein or cell purification from virtually any source

Flexible solution for different type of sample processing needs. With the 24 configuration, customers can raise the processing volume up to 5mL resulting in increased yield of the purified product. For higher throughput needs, 96 samples can be processed with a 96 magnet head.

- Fully automated, high-speed purification of nucleic acids, proteins and cells
- High throughput — up to 96 samples can be processed in under 20 minutes
- Expanded sample volume with 24 configuration increases the yield by ten-fold
- Open and flexible system lets the customer use any magnetic particle based kit to meet the application demands
- Easy-to-use BindIt™ Software provides instrument control, protocol creation and modification
- Ready-made protocols for different type of applications available

APPLICATIONS: Genomics and proteomics, target identification, veterinary assays, biomarker discovery, quality control, forensics

Description	Mfr. No.	Cat. No.	Each
KingFisher Flex with 96 PCR Head	5400610	**22-387-003**	55,150.00
KingFisher Flex with 96 KF Head	5400620	**22-387-004**	55,150.00
KingFisher Flex with 96 Deep-well Head	5400630	**22-387-005**	55,150.00

Thermo Scientific™ Consumables for KingFisher™ 96 Systems

Designed specifically for use with these instruments

The KingFisher Flex is compatible with KingFisher 24 Deepwell plates, Microtiter 96 Deepwell plates, KingFisher 96 plates and fully skirted ridgid PCR plates. Specially designed tip combs that protect the magnets during the process are available for different plate types and applications.

Description	Mfr. No.	Cat. No.	Each
96-tip comb for PCR magnet	97002514	**22-387-027**	357.50
96-tip comb for KF magnets	97002524	**22-387-028**	439.00
96-tip comb for DW magnets	97002534	**22-387-029**	558.50
96 KF microplate (200µL)	97002540	**22-387-030**	163.60
Microtiter Deepwell 96 plate, V-bottom	95040450	**22-387-031**	282.50
Microtiter Deepwell 96 plate, sterile	95040460	**22-387-032**	347.50
24 Deep-well Tip Comb and plate	97002610	**22-387-033**	735.00
24 Deep-well plate	95040470	**22-387-034**	252.00
24 deep well plate, sterile	95040480	**22-387-035**	314.50

22-387-034

MP Biomedicals FastPrep™ -24 Instrument

High-speed, digitally controlled benchtop homogenizer for the lysis of biological samples

Uses a unique, optimized motion to disrupt cells through multidirectional, simultaneous beating of specialized lysing matrix beads on the sample material.

- Simultaneous homogenization of 24 samples within 40 seconds
- Developed to lyse difficult and resistant samples
- Lyses tissues and cells thoroughly and quickly allowing easy and reproducible isolation of stable RNA, active proteins and full length genomic DNA
- Ergonomic design ensures easy loading of the sample tubes that remain securely sealed while processing

Mfr. No.	Cat. No.	Each
116004500	**MP116004500**	12,234.76

MP Biomedicals FastPrep™ -96 Instrument

For high-throughput sample homogenization, grinding, lysis and preparation

- Processes up to 192 samples simultaneously in 2 × 96 deep well plates
- Closed loop with automated control of time and power
- Interchangeable adapters available for 2 × 96 deep well plates, 96 × 2 mL tubes, 48 × 4.5 mL tubes, 24 × 15 mL tubes, 8 × 50 mL tubes and 2 × 250 mL flask
- 1800 oscillations/min.
- Noise: <65dB
- Sample volume up to 500g
- Speed: 800 to 1800RPM
- Power requirements: 110VAC/60Hz, 5.2A or 220 VAC50Hz, 2.6A

APPLICATIONS:
Nucleic acid isolation and purification

ORDERING INFORMATION:

- Dimensions: L × W × H: 26 × 17.3 × 27.5" (66 × 44 × 70cm)
- Weight: 108 lb (49kg)

STORAGE: 4° to 40°C

Description	Power Requirements	Mfr. No.	Cat. No.	Each
FastPrep-96 Homogenizer	110VAC/60Hz, 5.2A or 220VAC50Hz, 2.6A	116010500	**MP116010500**	16,000.00

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Prices subject to change.

MP Biomedicals Lysing Matrix Tubes

Matrix A

For all sample types except soil for the subsequent isolation of genomic DNA

Each impact-resistant 2mL tube contains garnet matrix and one 1/4" ceramic sphere. Lysing Matrix A tubes have orange caps and are found in the FastDNA™ and FastDNA SPIN Kits. This grinding matrix is chemically inert and will not bind nucleic acids.

- Tube Size: 2mL
- Sample Type: All samples
- Molecule to be Enriched: DNA
- Matrix Composition: Matrix A, contains garnet matrix and one 0.25" ceramic sphere.

Matrix B

Used primarily for lysis of gram positive and gram negative bacteria, and will also disrupt fungal tissue and spores

Lysing Matrix B tubes have blue caps and are found in the FastRNA™ Pro Blue Kit and FastProtein™ Blue Matrix.

- Sample Type: Bacteria (Gram +/-), Spores
- Molecule to be Enriched: DNA, RNA, proteins, other small molecules
- Matrix Composition: Matrix B, contains 0.1mm silica spheres

Matrix C

Used primarily for lysis of yeast and fungi and can also be used for molds, spores and filamentous algae

Lysing Matrix C tubes have red caps and are found in the FastRNA Pro Red Kit and FastProtein Red Matrix.

- Sample type: Yeast and yeast spores, fungi and fungal spores, algae
- Molecule to be enriched: DNA, RNA, proteins, other small molecules
- Matrix composition: Matrix C, contains 1mm silica spheres

Matrix D

Used primarily for lysis of softer tissues like brain, liver, kidney, lung and spleen

Lysing Matrix D tubes have green caps and are found in the FastDNA Spin Kit for Plant and Animal Tissues and FastRNA Pro Green Kit for isolation of nucleic acids from plants and animals. This grinding matrix is chemically inert and will not bind nucleic acids.

- Sample type: Plant and animal tissues, cultured cells
- Molecule to be enriched: DNA, RNA, proteins, other small molecules
- Matrix composition: Matrix D, contains 1.4mm ceramic spheres

Lysing Matrix D

Matrix E

For use with soil, fecal, environmental water, wastewater and sludge samples

Lysing Matrix E tubes have purple caps and are found in the FastDNA SPIN Kit for Soil and the FastRNA Pro Soil Kits. Lysing Matrix E can also be effective in lysing mixed samples, such as microbe-infected tissue and can be used in RNA extraction from tumors and other difficult tissues.

- Sample type: Soil, fecal, environmental water, wastewater, sludge
- Molecule to be enriched: DNA, RNA, proteins, other small molecules
- Matrix composition: Matrix E, contains 1.4mm ceramic spheres, 0.1mm silica spheres and one 4mm glass bead

STORAGE: Store at 15 to 30°C.

CERTIFICATIONS: DNase and RNase Free

Description	Quantity	Mfr. No.	Cat. No.	Each
Matrix A	500 × 2mL Tubes	116910500	**MP116910500**	1387.00
Matrix B	500 × 2mL Tubes	116911500	**MP116911500**	1383.00
Matrix C	500 × 2mL Tubes	116912500	**MP116912500**	1408.00
Matrix D	500 × 2mL Tubes	116913500	**MP116913500**	1368.00
Matrix E	500 × 2mL Tubes	116914500	**MP116914500**	1382.00

General Purpose

Thermo Scientific™ GeneJET™ Plasmid Miniprep Kit

A simple, rapid and cost-effective system for the isolation of high quality plasmid DNA from recombinant *E. coli* cultures

The kit utilizes an exclusive silica-based membrane technology in the form of a convenient spin column. The kit recovers up to 20µg of high copy plasmid DNA per isolation procedure.

- Efficient — high yields of up to 20µg of high quality plasmid DNA
- Fast — procedure takes less than 14 min
- Convenient — no phenol/chloroform extraction or alcohol precipitation required
- Pure — purified DNA is immediately ready to use

APPLICATIONS: Fast isolation of high purity plasmid DNA suitable for all conventional molecular biology procedures, including: FastDigest or conventional restriction digestion, automated fluorescent and radioactive sequencing

Sufficient For	Mfr. No.	Cat. No.	Each
50 preps	K0502	**FERK0502**	66.70
250 preps	K0503	**FERK0503**	276.00

Thermo Scientific™ GeneJET™ Plasmid Midiprep Kit

GeneJET Plasmid Midiprep Kit is designed for large scale isolation of high quality plasmid DNA from recombinant E. coli cultures. The kit utilizes silica-based membrane technology in the form of a convenient spin column

Each prep recovers up to 200µg of high copy number plasmid DNA. The purified plasmid DNA can be used in a wide variety of molecular biology procedures, such as restriction endonuclease digestion, PCR, cloning, transformation, automated sequencing, *in vitro* transcription and transfection of robust cell lines.

Highlights

- Efficient — high yields up to 200µg of high quality plasmid DNA from 50mL of bacterial culture
- High concentration of DNA purified — >400ng/µL
- Convenient — spin column format, centrifuge or vacuum protocols
- Fast — procedure takes 60 minutes, considerably faster than using gravity flow columns
- The GeneJET Plasmid Midiprep Kit is qualified by isolating high copy plasmid DNA from 50mL of overnight *E. coli* culture (OD600 = 2) grown in LB medium following the protocol outlined in the manual
- The kit passes QC requirements if the purified plasmid DNA has an A260/280 ratio between 1.8 and 1.9 and a dominant band of supercoiled plasmid DNA is observed following agarose gel electrophoresis
- The functional quality of the plasmid DNA is evaluated by digestion with restriction endonucleases

Sufficient For	Mfr. No.	Cat. No.	Each
25 preps	K0481	**FERK0481**	184.00
100 preps	K0482	**FERK0482**	654.00

Thermo Scientific™ GeneJET™ Plasmid Maxiprep Kit

Designed for large scale isolation of high quality plasmid DNA from recombinant *E. coli* cultures

GeneJET Plasmid Maxiprep Kit utilizes silica-based membrane technology in the form of convenient spin column. Each prep recovers up to 750µg of high-copy plasmid DNA that can be used in a wide variety of molecular biology procedures, such as restriction endonuclease digestion, PCR, cloning, transformation, automated sequencing, *in vitro* transcription and transfection of robust cell lines.

Highlights

- Efficient — High yields up to 750µg of high quality plasmid DNA from 250mL of bacterial culture
- High concentration of DNA purified — >400ng/µL
- Convenient — Spin column format, centrifuge or vacuum protocols
- Fast — Procedure takes 60 minutes, considerably faster than using gravity flow column

Sufficient For	Mfr. No.	Cat. No.	Each
10 preps	K0491	**FERK0491**	174.00
25 preps	K0492	**FERK0492**	389.00

Thermo Scientific™ GeneJET™ Genomic DNA Purification Kit

Silica membrane-based genomic DNA purification from mammalian cell culture and tissue samples, whole blood, bacteria and yeast, provided in a convenient spin-column format

The kit utilizes silica-based membrane technology in the form of a convenient spin column, eliminating the need for expensive resins, toxic phenol-chloroform extractions or time-consuming alcohol precipitation. The standard procedure takes less than 20 minutes following cell lysis and yields purified DNA greater than 30kb in size. Isolated DNA can be used directly in PCR, Southern blotting and enzymatic reactions.

- Universal — can be used for both cell and tissue samples from a wide range of sources
- Efficient — high yields of high molecular weight genomic DNA
- Fast — 20 minute procedure following cell lysis
- Convenient — spin columns are capped and assembled with collection tubes

Sufficient For	Mfr. No.	Cat. No.	Each
50 preps	K0721	**FERK0721**	105.20
250 preps	K0722	**FERK0722**	474.50

Thermo Scientific™ GeneJET™ Whole Blood Genomic DNA Purification Mini Kit

Silica membrane-based genomic DNA purification from fresh, frozen anticoagulated mammalian blood, aged blood, buffy coat, bone marrow and body fluids. Provided in a convenient spin-column format

GeneJET Whole Blood Genomic DNA Purification Mini Kit utilizes silica-based membrane technology in the form of a convenient spin column, eliminating the need for expensive resins, toxic phenol-chloroform extractions or time-consuming alcohol precipitation. The standard procedure takes less than 20 minutes following cell lysis and yields purified DNA greater than 30kb in size. Isolated DNA can be used directly in PCR, Southern blotting and enzymatic reactions.

Highlights

- Efficient — high yields of high molecular weight genomic DNA
- Fast — 20 minute procedure following cell lysis
- Convenient — spin columns are capped and assembled with collection tubes
- Pure — DNA free from enzyme inhibitors, RNA and proteins. Ready to use for all demanding applications and validated in real-time PCR, endpoint PCR, multiplex PCR and restriction enzyme digests
- Compatible – suitable for wide variety of samples like fresh or frozen anticoagulated mammalian blood (treated with EDTA, Citrate or Heparine), aged blood, buffy coat, bone marrow and body fluids

Size	Mfr. No.	Cat. No.	Each
50 reactions	K0781	**FERK0781**	102.00
250 reactions	K0782	**FERK0782**	460.00

Thermo Scientific™ GeneJET™ Plant Genomic DNA Purification Mini Kit

Silica membrane-based genomic DNA isolation from a wide variety of plant species and tissue types, including leaves, seeds and roots. Provided in a convenient spin column format

GeneJET Plant Genomic DNA Purification Mini Kit is designed for rapid and efficient purification of high quality genomic DNA from a wide variety of plant species and tissue types. It utilizes silica-based membrane technology in the form of a convenient spin column, eliminating the need for expensive resins, toxic phenol-chloroform extractions or time-consuming alcohol precipitation.

Highlights

- Fast — procedure completed in 30 minutes following cell lysis
- Convenient — protocol does not include clogging-prone lysate filtration step
- High yield — up to 32µg of high quality DNA from 100mg sample including, nuclear, mitochondrial and chloroplast DNA
- Compatible with wide variety of samples — Process leaves, roots, sprouts and other parts of various plants

Size	Mfr. No.	Cat. No.	Each
50 preps	K0791	**FERK0791**	128.00
250 preps	K0792	**FERK0792**	563.00

Thermo Scientific™ GeneJET™ RNA Purification Kit

Silica membrane-based total RNA purification from mammalian blood, cell cultures and tissues as well as insect, yeast and bacteria. Provided in a convenient spin-column format

The kit utilizes a silica-based membrane technology in the form of a convenient spin column, eliminating the need for tedious cesium chloride gradients, alcohol precipitation or toxic phenol-chloroform extractions. RNA molecules longer than 200 nucleotides can be isolated with the GeneJET RNA Purification Kit in 15 minutes after the lysis step. The high-quality purified RNA can be used in a wide range of downstream applications including RT-PCR, RT-qPCR, Northern blotting and other RNA-based analyses.

- Universal — can be used for both cell and tissue samples from a wide range of sources: mammalian blood, mammalian cell cultures, mammalian tissues, insect, yeast, bacteria
- Efficient — high yields of total RNA
- Fast — 15 minutes after lysis step
- Pure — an $A_{260\div280}$ ratio > 1.9
- Convenient — spin columns are capped and assembled with collection tubes

Sufficient For	Mfr. No.	Cat. No.	Each
50 preps	K0731	**FERK0731**	209.00
250 preps	K0732	**FERK0732**	818.00

Thermo Scientific™ GeneJET™ Stabilized and Fresh Whole Blood RNA Kit

Purify high quality total RNA from fresh or frozen whole blood, as well as blood collected in PAXgene™ and Tempus™ Tubes

- Designed for rapid and efficient purification of high quality total RNA from various whole blood samples: fresh, frozen or human blood samples stabilized with commercial stabilizers such as Tempus and PAXgene.
- The kit utilizes silica-based membrane technology in the form of a convenient spin column, eliminating the need for expensive resins, toxic phenol-chloroform extractions or time-consuming alcohol precipitation. The kit includes a DNase I for the enzymatic removal of genomic DNA. RNA can be isolated from whole blood in less than 30 minutes (including cell lysis and DNase I treatment).

Highlights

- Versatile — compatible with fresh and frozen blood, buffy coat, as well as blood collected in PAXgene and Tempus Tubes
- Convenient — specially optimized Lysis Buffer is suitable for RNA stabilization up to 48 h
- Efficient — up to 4µg of total RNA from 500µL of healthy human blood
- Pure — isolates intact total RNA free of any RT-qPCR inhibitors

Quantity	Cat. No.	Mfr. No.	Each
50 preps	**FERK0761**	K0761	204.00

Thermo Scientific™ GeneJET™ Plant RNA Purification Mini Kit

Silica membrane-based total RNA purification from leaves, roots, sprouts and other parts of various plants. Provided in a convenient spin-column format

The kit utilizes silica-based membrane technology in the form of a convenient spin column, eliminating the need for expensive resins, toxic phenol-chloroform extractions or time-consuming alcohol precipitation. The standard procedure takes less than 20 minutes following cell lysis. Purified high quality RNA can be used in a wide range of downstream applications, such as RT-PCR, RT-qPCR, Northern blotting and other RNA-based analysis. RNA yields vary between different species, tissues and age of tissue sample.

Highlights

- Fast — procedure can be completed in 20 minutes following cell lysis
- Convenient — protocol does not include clogging prone lysate filtration step
- High yield — up to 65µg of high purity and high integrity RNA from 50mg plant sample
- Compatible with wide variety of samples — Leaves, roots, sprouts and other parts of various plants

Size	Mfr. No.	Cat. No.	Each
For 50 preps	K0801	**FERK0801**	204.00
For 250 preps	K0802	**FERK0802**	818.00

Thermo Scientific™ GeneJET™ PCR Purification Kit

GeneJET PCR Purification Kit is designed for rapid and efficient purification of DNA from PCR and other enzymatic reaction mixtures

The kit utilizes a proprietary silica-based membrane technology in the form of a convenient spin column, eliminating the need for tedious resin manipulations or toxic phenol-chloroform extractions. The GeneJET PCR Purification Kit effectively removes primers, dNTPs, unincorporated labeled nucleotides, enzymes and salts from PCR and other reaction mixtures. The kit can be used for purification of DNA fragments from 25 bp to 20kb with recovery rates up to 100%. Each GeneJET purification column has a total binding capacity of up to 25µg of DNA and the entire procedure takes just 5 min. The purified DNA can be used in common downstream applications such as sequencing, restriction digestion, labeling, ligation, cloning, *in vitro* transcription, blotting or *in situ* hybridization.

- Highly efficient: 90 to 100% recoveries in the range of 100 bp to 10kb
- Fast: procedure takes only 5 minutes
- Convenient: spin columns are capped and assembled with collection tubes

Sufficient For	Mfr. No.	Cat. No.	Each
50 preps	K0701	**FERK0701**	74.30
250 preps	K0702	**FERK0702**	334.50

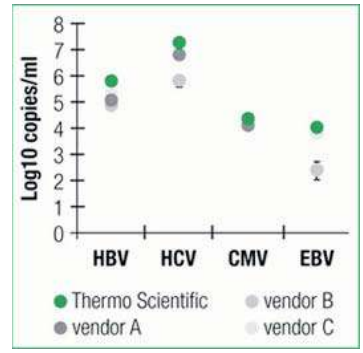
Thermo Scientific™ GeneJET™ Viral DNA and RNA Purification Kit

Silica membrane-based viral nucleic acid purification from human and mammalian plasma, serum, blood and cell-free samples. Provided in a convenient spin-column format

It is compatible with common sample preservatives like EDTA, citrate and heparin. The kit utilizes a silica-based membrane technology in the form of a convenient spin column. Viral nucleic acids from lysed samples bind to the column membrane while impurities are effectively removed during subsequent washing and centrifugation steps. Ready-to-use nucleic acids are eluted from the column. The purified viral nucleic acids are free of proteins, nucleases and other contaminants or inhibitors of downstream applications. Isolated DNA and RNA can be directly used in PCR, qPCR or other nucleic acid based assays.

Highlights

- Efficient purification of viral DNA and RNA from human and mammalian plasma, serum, blood and cell-free samples
- Linear yields from a wide range of viral titers
- Tested with a variety of DNA and RNA viruses (HIV, HBV, HCV, HPV, CMV, EBV)
- Downstream compatibility with (RT)-PCR, (RT)-qPCR and other nucleic acid based assays



Different amounts of HBV, HCV, CMV and EBV infected human plasma or blood samples were purified using GeneJET Viral DNA and RNA Purification kit and using kits from other suppliers. Isolated viral nucleic acids were quantified using a real-time PCR detection assay.

Size	Mfr. No.	Cat. No.	Each
For 50 preps	K0821	**FERK0821**	179.00

Thermo Scientific™ GeneJET™ Gel Extraction Kit

Silica membrane-based DNA fragment purification from standard or low-melting point agarose gels run in either TAE or TBE buffer. Provided in a convenient spin-column format

The kit can be used to purify DNA fragments from 25 bp to 20kb in size with recovery rates up to 95%. Each GeneJET purification column has a binding capacity of up to 25µg of DNA and can process up to 1g of agarose gel. The entire procedure takes just 15 min. and the isolated DNA is ready to use in all common downstream applications including ligation, restriction digestion, PCR, sequencing and labeling.

- Highly efficient: up to 95% recoveries in the range of 100 bp to 10kb
- Fast: procedure takes only 15 minutes
- Convenient: spin columns are capped and assembled with collection tubes

Sufficient For	Mfr. No.	Cat. No.	Each
50 preps	K0691	**FERK0691**	74.00
250 preps	K0692	**FERK0692**	334.00

Thermo Scientific™ GeneJET™ Gel Extraction and DNA Cleanup Micro Kit

Developed as a 3-in-1 kit designed for rapid and efficient purification of DNA from PCR, enzymatic reaction mixtures and DNA extraction from standard or low-melting point agarose gels

The GeneJET Gel Extraction and DNA Cleanup Micro Kit effectively removes primers, primer dimers, dNTPs, unincorporated labeled nucleotides, enzymes and salts from PCR and other reaction mixtures. The kit can be used for purification of DNA fragments from 100 bp to 20 kbp. The recovery rates are 90 to 100% for 100 bp to 3 kbp DNA fragment size range. Each GeneJET DNA Purification Micro Column has a total binding capacity of up to 10µg of DNA and the entire procedure takes approximately 3.5 minutes for DNA cleanup.

The kit combines the convenience of spin column technology with the selective binding properties of a silica membrane, eliminating the need for tedious resin manipulations or toxic phenol-chloroform extractions.

- Advanced column design — easy to open, load and handle
- Yields concentrated DNA — elute in 6 to 10µL volume
- High recovery — 90 to 100% recovery in the 100 to 3000 bp DNA fragment range
- Fast — 4 minute reaction mixture clean-up and 15 minute agarose gel purification protocols available
- Efficient removal of reaction contaminants — including enzymes, proteins, primers dimers, dNTPs and salts
- Flexible — does not require precise gel slice quantification weighting

Kit Size	Mfr. No.	Cat. No.	Each
50 preps	K0831	**FERK0831**	77.00
250 preps	K0832	**FERK0832**	358.00

5 PRIME™ FastPlasmid™ Mini Purification System

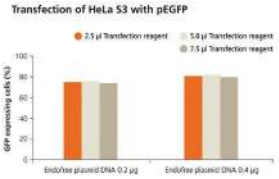
Isolates plasmid DNA from bacterial culture in as little as nine minutes

- Yields up to 20µg of high-copy and up to 10µg of low-copy plasmid DNA from 1.5mL of bacterial culture
- Utilizes one-step lysis in conjunction with an efficient DNA binding membrane, reducing the number of steps and number of buffers required for purification
- Requires no specialized equipment
- Produces high-quality DNA that is suitable for demanding downstream applications, including automated sequencing, transformation, *in vitro* transcription and PCR

No. of Preps	Sample Size	Mfr. No.	Cat. No.	Each
100	1.5 to 3mL	2300000	**FP2300000**	160.27
250	1.5 to 3mL	2300010	**FP2300010**	339.91

5 PRIME™ PerfectPrep™ EndoFree Plasmid Maxi Kit

Purification of endofree, advanced transfection-grade plasmid DNA in large scale



FP2300120

- Yields up to 1000µg of high-quality plasmid DNA
- Generates high-quality plasmid DNA with an optional endotoxin reduction step, for use in advanced downstream applications
- Efficient endotoxin removal (<0.1 endotoxin units per µg plasmid DNA) improves mammalian cell viability
- Rapid and simple purification in less than 40 min.
- Utilizes the PerfectPrep EndoFree Filter CS, which allows the clarification of the bacterial lysate and a silica membrane to produce plasmid DNA that is highly suited for use in a variety of demanding applications, including transfection of sensitive and primary cell lines, *in vitro* transcription and translation and all enzymatic modifications

No. of Preps	Mfr. No.	Cat. No.	Each
10	2300120	**FP2300120**	152.00

5 PRIME™ PerfectPrep™ Plasmid 96 VAC Direct Bind Kit

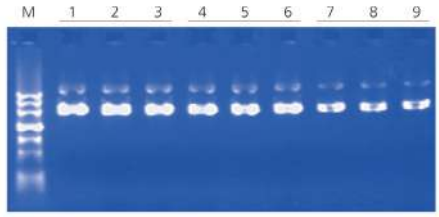
Isolates ultrapure plasmid DNA in a 96-well format

- High yields up to 15µg plasmid DNA per isolation
- Consistent plasmid concentration Reproducible elution volumes
- Excellent sequencing data; average PHRED Q20 scores greater than 600 bases
- Average read lengths 700 bases with 98.5% accuracy **FP2300210**
- A high-throughput method of purifying plasmid DNA from 1 to 1.25mL E. coli bacterial cultures grown and processed in a 96-well plate format
- Processes 96 samples in just 30 minutes using the rapid protocol; 4 × 96-well plates take approximately 45 minutes
- Designed and optimized for use with vacuum manifolds and compatible with most liquid handling and pipetting stations
- No alcohol precipitation required
- Produces ultrapure plasmid DNA that is free of RNA or chromosomal DNA contamination and is suitable for all downstream applications
- Quality Assurance: Each lot of the PerfectPrep Plasmid 96 VAC Direct Bind is tested in plasmid DNA isolation as described in the protocol. The isolated plasmid DNA is then evaluated for quantity and quality by agarose gel analysis, successful digestion with a variety of restriction endonucleases, automated fluorescent DNA cycle sequencing and transfection of cultured cells.

No. of Preps	Sample Size	Mfr. No.	Cat. No.	Each
960	1 to 1.25mL	2300210	**FP2300210**	981.00
4800	1 to 1.25mL	2300220	**FP2300220**	4500.00

5 PRIME™ PerfectPrep™ Spin Mini Kit

Easy bind-wash-elute purification of high-quality plasmids in miniprep format



Agarose gel analysis of plasmid DNA using different amounts of starting material. Run 1µL of each sample on a 1% agarose gel for analysis of the eluates. This corresponds to 80ng isolated plasmid DNA from 1.5mL starting material, 140ng from 3mL and 180ng isolated plasmid DNA from 5mL bacterial culture.

- Generates 5 to 20µg ready-to-use DNA from a 1.5mL overnight culture
- Produces pure biology grade plasmid DNA for improved performance in downstream applications
- Provides a fast, simple and cost-effective plasmid miniprep method using silica membrane technology
- Designed for quick and convenient processing of 1-24 samples simultaneously in less than 30 min. Scalable to production volumes (see 5 PRIME PerfectPrep EndoFree™ Plasmid Maxi Kit, Mfr. No. 2300120)
- No resins, slurries or phenol

No. of Preps	Mfr. No.	Cat. No.	Each
50	2300100	**FP2300100**	75.40
200	2300110	**FP2300110**	202.00

5 PRIME™ ArchivePure™ DNA Purification

Blood Kits

Suitable for fresh or frozen whole blood, bone marrow, packed cells or buffy coat.

- Ideal for clinical molecular diagnostics, gene hunting, pharmacogenetics, clinical trial labs
- Typical yield: 35µg/mL blood
- Sample volumes from 150µL to 20mL collected in common coagulants (EDTA, citrate or heparin)
- Typical preparation time: 25 to 60 minutes
- Purified DNA is stable for at least 12 years when refrigerated (2° to 4°C storage)
- Liquid-phase, genomic DNA purification for over 200 sample types
- Virtually foolproof protocols yield recoverable DNA at every step, even after a procedural error
- Protocols are scalable for a wide range of sample sizes
- Isolate high molecular weight DNA, from 100 to 200kb
- Convenient kits include all required reagents, pre-mixed and ready-to-use, right out of the box
- Exceptional purity, A260/A280 rations from 1.7 to 2.0
- Remove PCR inhibitors and other contaminants
- Purify archival-quality DNA
- Gentle, nontoxic detergents and salts
- No toxic chemicals, phenol or organic chemicals

Cell and Tissue Kits

Purify DNA from cultured cells, fluids, tissue or Gram-negative bacteria.

- Typical preparation time: 60 minutes
- Liquid-phase, genomic DNA purification for over 200 sample types
- Virtually foolproof protocols yield recoverable DNA at every step, even after a procedural error
- Protocols are scalable for a wide range of sample sizes
- Isolate high molecular weight DNA, from 100 to 200kb
- Convenient kits include all required reagents, pre-mixed and ready-to-use, right out of the box
- Exceptional purity, A260/A280 rations from 1.7 to 2.0
- Remove PCR inhibitors and other contaminants
- Purify archival-quality DNA
- Gentle, nontoxic detergents and salts
- No toxic chemicals, phenol or organic chemicals

Specifications		
Cells	100 to 500 million	5µg/million
Animal Tissue	500µg to 1.5g	0.5 to 10µg/mg
Plant Tissue	5 to 1200mg	0.5 to 5µg/mg
Body Fluid	100µL to 1.5mL	2 to 50µg/mL
Bacteria	0.5 to 500mL	10 to 50µg/mL

Sample Size	Mfr. No.	Cat. No.	Each
30mL	2300710	**FP2300710**	121.90
120mL	2300720	**FP2300720**	291.00
1000mL	2300730	**FP2300730**	1552.00
1000mL; Blood Base Kit	2300740	**FP2300740**	1116.00
1g	2300810	**FP2300810**	114.30
4g	2300820	**FP2300820**	193.30

5 PRIME™ ArchivePure™ DNA Purification: Yeast and Gram-positive Bacteria Kits

Nontoxic, nonorganic method of purifying DNA from difficult samples

- Liquid-phase, genomic DNA purification for over 200 sample types
- Typical preparation time: 90 minutes
- Virtually foolproof protocols yield recoverable DNA at every step, even after a procedural error
- Protocols are scalable for a wide range of sample sizes
- Isolate high molecular weight DNA, from 100 to 200kb
- Convenient kits include all required reagents, pre-mixed and ready-to-use, right out of the box
- Exceptional purity, A260/A280 rations from 1.7 to 2.0
- Remove PCR inhibitors and other contaminants
- Purify archival-quality DNA
- Gentle, nontoxic detergents and salts
- No toxic chemicals, phenol or organic chemicals

No. of Preps	Mfr. No.	Cat. No.	Each
400	2301210	**FP2301210**	316.50

5 PRIME™ PerfectPure™ RNA 96 CellVac Kit

Column-based technology eliminates the most common problems of RNA purification, such as overloading and clogging

- Produces high quality RNA from cultured cells
- Suitable for use with 10,000 to 5×10^6 cells
- Utilizes a vacuum-based method
- Processes 96 samples in less than 45 minutes
- Generates RNA suitable for RT-PCR, microarray analyses, Northerns, dot blots, *in vitro* translations, ribonuclease protection assays and other downstream analyses

No. of Preps	Mfr. No.	Cat. No.	Each
8 × 96	2302540	**FP2302540**	2219.19

ACCESSORIES

5 PRIME™ ArchivePure™ Replacement Reagents

For use with ArchivePure DNA purification kits

NOTES:
5 PRIME has acquired selected product lines from the Eppendorf 5-Prime and Gentra product portfolios. 5 PRIME solutions have the same formulations and performance specifications as solutions previously sold by Gentra.

Description	Quantity	Mfr. No.	Cat. No.	Each
RBC Lysis Solution	1000mL	2301310	**FP2301310**	144.80
Cell Lysis Solution	1000mL	2301330	**FP2301330**	435.50
Protein Precipitation Solution	350mL	2301350	**FP2301350**	380.00
DNA Hydration Solution	500mL	2301370	**FP2301370**	273.50
Proteinase K Solution, 20mg/mL	5mL	2301390	**FP2301390**	416.00
RNase A Solution	5mL	2301410	**FP2301410**	414.00
Lytic Enzyme Solution	5mL	2301430	**FP2301430**	416.00
Glycogen Solution, 20mg/mL	500µL	2301440	**FP2301440**	73.90

5 PRIME™ PerfectPure™ RNA 96-Well Cell Kits

Produce up to 100µg of purified RNA in about 90 minutes

- Accommodate cell densities up to 5 million cells per well, using either adherent or suspension cell lines
- Convenient, easy-to-use kits come with premixed reagents
- Bind cellular RNA to a high-capacity glass fiber matrix in a 96-well plate
- Samples can be processed at room temperature, without a fume hood
- No time-consuming incubation steps
- Contain no harsh organic solvents, reducing agents or reactive cyanide salts — no hazardous waste disposal needed
- Resulting RNA is essentially free of genomic DNA, protein and other enzymatic inhibitors; suitable for experiments or long-term storage
- Purified RNA can be frozen, thawed and refrozen without degrading

FP2302500 Series

Description	No. of Preps	Mfr. No.	Cat. No.	Each
Standard	768	2302520	**FP2302520**	2450.00
Short Stack	768	2302530	**FP2302530**	2410.00

5 PRIME™ PerfectPure™ RNA Blood Purification Kits

Produce pure, concentrated RNA from up to 10mL whole blood

Simple technology uses high-capacity columns to isolate pure RNA from blood, animal tissue or culture cell samples. Resulting RNA is essentially free of genomic DNA, protein and other enzymatic inhibitors; suitable for experiments or long-term storage.

- Provide superior yields in just 20 minutes
- Purification complete in under 90 minutes
- RBC lysis in 15 minutes
- Convenient on-column DNA treatment (DNase included)
- Contain sufficient reagents for up to 50 purifications
- Convenient, easy-to-use kits come with pre-mixed reagents
- Contain no harsh organic solvents, reducing agents or reactive cyanide salts — no hazardous waste disposal needed
- Samples can be processed at room temperature, without a fume hood
- Purified RNA can be frozen, thawed and refrozen without degrading
- No time-consuming incubation steps

No. of Preps	Sample Size	Mfr. No.	Cat. No.	Each
50	0.05-3mL	2302110	**FP2302110**	350.00
50	3-10mL	2302120	**FP2302120**	465.00

5 PRIME™ PerfectPure™ RNA Cell and Tissue Kits

Isolate RNA from 0.5 to 40mg tissue or from 1 × 10^4 to 5 × 10^7 cells

- Allow purification of a wide range of sample sizes, in as little as 20 minutes
- Produce high purity, ready-to-use RNA, ideal for sensitive downstream applications
- Come complete with all components, including DNase
- Unique chemistry uses nonchaotropic reagents
- High sample success rate with no DNA, RNase, protein or chaotropic salt contamination

FP2302350

Description	No. of Preps	Mfr. No.	Cat. No.	Each
PerfectPure RNA Cell Kit	10	2302330	**FP2302330**	141.80
	50	2302340	**FP2302340**	347.50
	250	2302350	**FP2302350**	1542.00
PerfectPure RNA Tissue Kit	10	2302400	**FP2302400**	163.90
	50	2302410	**FP2302410**	364.50
	250	2302420	**FP2302420**	1602.00
PerfectPure RNA Fibrous Tissue Kit	50	2302440	**FP2302440**	416.50

5 PRIME™ Isol-RNA Lysis Reagent

For efficient lysis of a variety of tissue types before RNA isolation

- Monophasic solution of phenol and guanidine thiocyanate designed to facilitate lysis of fatty tissues and inhibit RNases
- Easy-to-follow protocol for lysis and homogenization
- Optimized lysis conditions to purify RNA
- High yields of RNA even from difficult tissues

Description	Quantity	Mfr. No.	Cat. No.	Each
5 PRIME Isol-RNA Lysis Reagent	200mL	2302700	**FP2302700**	238.07

5 PRIME™ RNase-Free DNase Set

For complete genomic DNA removal during RNA purification

The 5 PRIME RNase-Free DNase Set is quality-controlled for DNase digestion of RNA in solution before RNA cleanup or on column DNase digestion in combination with the PerfectPure™ RNA Blood Kit.

- Efficient on-column and in solution digest of DNA
- Complete DNase removal by subsequent washes
- Activity: Lyophilized enzyme with RNase-Free Buffer and water
- Format: 2500 Kunitz units/mg
- Unit definition: One Kunitz unit is defined as the amount of DNase I that causes an increase in A260 of 0.001 per minute per milliliter at 25°C, pH 5.0, with highly polymerized DNA as the substrate

No. of Rxns	Mfr. No.	Cat. No.	Each
50	2500120	**FP2500120**	84.10

GE™ Healthcare illustra™ GFX™ PCR DNA and Gel Band Purification Kit

Suitable for isolation and concentration of DNA fragments (50 bp to 10kb) from PCR mixtures, DNA-containing agarose gel bands, enzyme-based DNA modifications and restriction digestions

This kit can be used to purify DNA from reaction volumes up to 100µL or agarose gel slices of up to 900mg in mass. Typical recoveries range from 60 to 80% for DNA fragments from agarose gel to as high as 95% for PCR products from solution.

- Rapid and easy-to-use purification method with less than 10 minutes hands-on time
- Flexible 10 to 50µL elution volume for different DNA concentration needs
- Improved column design with increased maximum volume holding of up to 800µL liquid volume (950µL without a cap)
- DNA of exceptional purity (to 99.5%) is ready for direct use in sequencing, PCR, labeling, restriction enzyme digestion and cloning
- Visual color indicator added to the capture buffer to ensure optimal pH for maximum DNA binding and recovery
- Kit combines a versatile chaotropic buffer with a glass fiber matrix supported in a spin-column for the purification of DNA from both solution and agarose gel

INCLUDES:
GFX columns; Collection tubes; Color-coded bottles of capture buffer; Wash buffer; two elution buffers: Tris-HCl and sterile water

Quantity	Mfr. No.	Cat. No.	Each
100 purifications	28903470	**45-001-489**	193.93
250 purifications	28903471	**45-001-490**	455.76

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

GE™ Healthcare illustra™ MicroSpin™ G-25 Columns

For the rapid purification of DNA >10 base pairs in length in a wide range of applications, including desalting, buffer exchange and removal of unincorporated nucleotides from end-labeled oligonucleotides

- In spin-column chromatography, permit rapid buffer exchange/desalting of PCR products and other DNAs in volumes of 10 to 100µL
- Provide rapid purification of newly synthesized oligonucleotides in 100 to 150µL of deprotection solution
- Other applications incude desalting/buffer exchange of DNA and removal of unincorporated radionucleotides from end-labeled oligonucleotides in volumes of 10 to 100µL
- Require less than four minutes from sample application to collection of purified product
- Tested in nickase, single- and double-stranded exonuclease and RNase assays

APPLICATIONS:
Desalting/buffer exchange of DNA, removal of unincorporated radionucleotides from end-labeled oligonucleotides in volumes of 10 to 100µL

ORDERING INFORMATION:
Conveniently prepacked with Sephadex™ G-25 DNA Grade pre-equilibrated in distilled water containing 0.05% Kathon™ CG/ICP Biocide.

Quantity	Mfr. No.	Cat. No.	Each
Pack of 50	27532501	**45-001-397**	239.49

GE™ Healthcare illustra™ MicroSpin™ S-400 HR Columns

For rapid purification of PCR products (>200 bp) from unincorporated primers (<32-mers) and nucleotides using spin-column chromatography

- Accommodates 25 to 50µL for post-PCR cleanup prior to cloning or a second amplification reaction; 25 to 100µL for all other applications
- Ready to use — requires <4 min. from sample application to collection of purified product
- Prepacked with Sephacryl™ S-400 HR media pre-equilibrated in TE buffer
- Percent sample recovery: >80%
- Tested in nickase, single- and double-stranded exonuclease and RNase assays

STORAGE: Store at 4°C. Do not freeze.

Quantity	Mfr. No.	Cat. No.	Each
50 columns	27514001	**45-001-396**	239.49

GE™ Healthcare illustra™ NAP™ Columns

For rapid and efficient purification of DNA and oligonucleotides (>10-mer) in less than 15 minutes by gravity flow

- Disposable columns prepacked with Sephadex™ G-25 DNA Grade gel require only gravity to run
- Available in three sizes depending on sample volume: 0.5mL (NAP-5), 1mL (NAP-10) or 2.5mL (NAP-25)
- Useful for small-scale purification, desalting and buffer exchange

ORDERING INFORMATION:
Sephadex G-25 DNA grade gel comes in a column buffer consisting of distilled water with 0.15% Kathon™ CG/ICP Biocide.

INCLUDES: Complete step-by-step protocol identifying the fixed volumes needed for equilibration, washing and sample elution

Quantity	Mfr. No.	Cat. No.	Each
NAP-5 (0.5mL max. volume)			
Pack of 20	17085301	**45-000-151**	177.51
Pack of 50	17085302	**45-000-152**	379.85
NAP-10 (1mL max. volume)			
Pack of 20	17085401	**45-000-153**	195.49
Pack of 50	17085402	**45-000-154**	395.90
NAP-25 (2.5mL max. volume)			
Pk. of 20	17-0852-01	**45000149**	239.68
Pack of 50	17085202	**45-000-150**	506.11

GE™ Healthcare illustra™ RNAspin Mini Isolation Kit

For rapid extraction of high-quality RNA from a wide range of samples

- Recovers total RNA due to removal of genomic DNA through on-column DNase I treatment
- Can be used on cultured cells, tissue, yeast and hard-to-lyse bacterial strains
- Prefilters reduce lysate viscosity for maximum yield and purity Results can be obtained with small amounts of sample
- Binding capacity: 100µg
- Sample size: 30mg (animal tissue), up to 5×10^6 cells (cell culture)
- Elution volume: 40 to 120µL
- RNA Purity (A260/A280): 1.8 to 2.2
- Total time of preparation: P30 min/6 preps

APPLICATIONS:
Quantitative reverse transcriptase PCR (QRT-PCR), Northern blot and microarray experiments

INCLUDES:
Protocol booklet with detachable, quick reference card, necessary components for specified number of preps, including prefilters and DNase I

No. of Preps	Mfr. No.	Cat. No.	Each
20	25-0500-70	**45-001-161**	116.14
50	25-0500-71	**45-001-162**	236.32
250	25-0500-72	**45-001-163**	1018.08

EMD Millipore™ Montage™ Gel Extraction Kit

Elutes DNA from agarose gels in 10 minutes

- Typically recovers >70% of 100-1000 bp DNA from standard agarose gels
- Converts agarose to a spray from which DNA is separated via a 0.45µm Ultrafree™-MC filter
- Prepares gel-purified PCR products for sequencing or cloning without need for further purification

INCLUDES:

- 50 gel nebulizers, 50 Ultrafree-MC 0.45µm separators, 50 microcentrifuge vials, 500mL stock of 50X modified TAE buffer
- An Amicon™ Bioseparations product

Mfr. No.	Cat. No.	Pack of 50
LSKGEL050	**LSKGEL050**	145.50

EMD Millipore™ Montage™ SEQ_{96} and SEQ_{384} Sequencing Reaction Cleanup Kits

Fully automatable kits rinse away unincorporated dye terminator without the need for binding and eluting protocols

Utilize 96- or 384-well filter plates with proprietary size-exclusion membranes to retain sequencing products while excess dye terminator is removed quickly and efficiently. Recovered sequencing products are highly purified and result in long, accurate sequencing reads.

- Protocols are optimized for use with BigDye™ Terminator version 3.0, 3.1, 1.1 and ET Terminator sequencing chemistries
- Sequencing products may be resuspended in any aqueous electrokinetic injection buffer
- Plates are suitable for use with 1/8 sequencing reactions, reducing reagent costs by miniaturization

INCLUDES:
Clear polystyrene 96- or 384-well plates, optimized injection solution (96-well kits only)

REQUIRES:
MultiScreen™ 384 Vacuum Manifold with underdrain support grid (Mfr. No. MAVM 096 0R)

LSKS 096 Series

Description	Working Well Volume	Nonrecoverable Volume	Mfr. No.	Cat. No.	Pack of
Montage SEQ_{96} Cleanup Kit	10–100µL	<2µL	LSKS 096 04	**LSKS 096 04**	4/395.00
Montage SEQ_{96} Cleanup Kit	10–100µL	<2µL	LSKS 096 24	**LSKS 096 24**	24/1895.00
Montage SEQ_{384} Filter Plates	10–100µL	<2µL	S384 SEQ 10	**S384 SEQ 10**	10/922.19
Montage SEQ_{384} Filter Plates	10–100µL	<2µL	S384 SEQ 50	**S384 SEQ 50**	50/3570.00

Promega™ Wizard™ *Plus* SV Minipreps DNA Purification System

Produces high yield plasmid DNA of consistent quality from bacterial cultures

- 20 minipreps processed in less than 45 minutes
- No phenol extractions or precipitations required
- Uses alkaline protease to allow consistent DNA isolation from EndA+ and EndA- bacterial strains
- Choice of spin (microcentrifuge) or vacuum purification formats available†

PR-A1330

Quantity	Mfr. No.	Cat. No.	Each
DNA Purification Kits			
50 preps	A1330	**PR-A1330**	73.41
250 preps	A1460	**PR-A1460**	320.92
1000 preps	A1465	**PR-A1465**	1184.04
DNA Purification Kits with Vacuum Adapters			
50 preps	A1340	**PR-A1340**	78.66
250 preps	A1470	**PR-A1470**	329.31

†Vacuum protocol requires use of a vacuum manifold.

Promega™ PureYield™ Plasmid Midiprep System

Isolates high-quality plasmid DNA from bacterial cultures

- Designed to purify 100 to 200µg of plasmid DNA from 50mL bacterial culture
- May also be used with up to 250mL of bacterial culture using an alternative protocol
- Utilizes a silica-membrane column which allows for the purification of large amounts of plasmid DNA
- Incorporates an endotoxin removal wash to remove substantial amounts of protein, RNA and endotoxin contaminants
- Compatible with a variety of protocols — centrifugation, vacuum or a combination of centrifugation and vacuum
- Provides rapid purification — no need for high-speed centrifugation, gravity-drip columns or post-elution alcohol precipitation
- Produces purified DNA suitable for sensitive applications such as eukaryotic transfection, *in vitro* transcription and coupled *in vitro* transcription/translation

STORAGE: Store at 22° to 25°C.

Description	No. of Samples	Mfr. No.	Cat. No.	Each
PureYield Plasmid Midiprep System	25	A2492	**PR-A2492**	242.26
PureYield Plasmid Midiprep System	100	A2495	**PR-A2495**	880.95
PureYield Plasmid Midiprep System	300	A2496	**PR-A2496**	2522.24
PureYield Plasmid Midiprep Start-Up Kit, 110V Electrical	100	A6740	**PR-A6740**	1176.70

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Promega™ PureYield™ Plasmid Maxiprep System

Isolates transfection-quality plasmid DNA

- Provides a rapid method for purification of up to 1mg of plasmid DNA from a 250mL bacterial culture
- High purity and concentration of plasmid DNA gives proven performance in transfection, *in vitro* expression and other molecular biology applications
- Vacuum protocol simplifies purification of multiple samples at one time
- Simple protocol eliminates tedious, gravity-drip columns and post-elution alcohol precipitation
- Membrane column allows purification of large amounts of plasmid DNA
- Designed for use with a vacuum source and vacuum manifold such as the Vac-Man™ Laboratory Vacuum Manifold

INCLUDES: All systems include reagents and columns for purification. PR-A6730 also includes vacuum pump, vacuum manifold and vacuum elution device.

No. of Preps	Mfr. No.	Cat. No.	Each
10	A2392	**PR-A2392**	221.29
25	A2393	**PR-A2393**	511.79
50	A6730	**PR-A6730**	1317.23

Promega™ Wizard™ *Plus* DNA Purification Systems

Purify plasmid DNA from culture at the mini-, midi-, maxi- or megaprep scale

PR-A7100

- Each system is quality tested in fluorescent sequencing reactions to ensure read lengths of at least 500 base pairs with 98% accuracy
- Proprietary silica-based resin rehydrates rapidly, allowing fast, reproducible elution of DNA using water or TE Fast, manual format allows minipreps to be completed in as little as 15 minutes, midipreps in 90 minutes and maxi- and megapreps in three hours
- Safe, convenient protocol eliminates the need for phenol extraction and ethanol precipitation
- Purified DNA can be used directly in most molecular biology applications
- Minipreps feature disposable minicolumns with Luer-Lok™ tops for attachment of a 3mL syringe (not included); larger preps use columns that require the use of a vacuum manifold (not included)

Description	Sample Size	Typical Yield	No. of Preps	Mfr. No.	Cat. No.	Each
Minipreps System	1 to 3mL	1 to 10µg	50	A7100	**PR-A7100**	144.73
			100	A7500	**PR-A7500**	201.36
			250	A7510	**PR-A7510**	460.40
Midipreps System	10 to 100mL	Up to 200µg	25	A7640	**PR-A7640**	239.12
Maxipreps System	100 to 500mL	300µg to 1mg	10	A7270	**PR-A7270**	189.82
Megapreps System	1000mL	>1mg	5	A7300	**PR-A7300**	183.53

Promega™ Wizard™ SV 96 Plasmid DNA Purification Systems

Purify 96 minipreps in 60 minutes

Purification is accomplished in three simple steps. Plasmid DNA is eluted in water or Tris-EDTA, ready for direct use in molecular biology applications, including automated fluorescent sequencing.

PR-A225 Series

- Systems provide reproducible yields of high-quality plasmid DNA
- Quality control ensures that purified DNA meets or exceeds 600 bases with over 98% accuracy using BigDye™ Terminator chemistry
- Plate design ensures equal elution volume and prevents spraying
- Design is suitable for manual or automated format

No. of Preps	Mfr. No.	Cat. No.	Each
1 × 96	A2250	**PR-A2250**	270.58
5 × 96	A2255	**PR-A2255**	1034.07

Promega™ Wizard™ DNA Cleanup System

Purifies linear and circular DNA from 200 to 50,000 bp

- Removes contaminants
- Uses a quick and easy batch column procedure
- Produces purified DNA in 15 minutes or less
- Does not require phenol extractions or ethanol precipitations

PR-A7280

Mfr. No.	Cat. No.	Each
A7280	**PR-A7280**	165.70

Promega™ Wizard™ DNA Purification Resins and Buffer

Wizard™ DNA Purification Resins and BufferBulk quantities of the resins and buffer supplied with selected Wizard System kits.

Wizard System Component	Size	Mfr. No.	Cat. No.	Each
Minipreps Resin	250mL	A7141	**PR-A7141**	211.85
Midipreps Resin	1000mL	A7701	**PR-A7701**	596.74
Maxipreps Resin	500mL	A7401	**PR-A7401**	343.99
Megapreps Resin	1000mL	A7361	**PR-A7361**	617.71
PCR Preps Resin	250mL	A7181	**PR-A7181**	223.38
PCR Preps Direct Purification Buffer	25mL	A7241	**PR-A7241**	41.95

Promega™ Wizard™ Genomic DNA Purification Kits

Totally scalable, column- and resin-free system

- Isolate genomic DNA from whole blood, cultured cells, yeast, mouse tissue or numerous other cell sources
- Utilize unique nuclei lysis and protein precipitation solutions to produce high-purity DNA with average OD260/280 of 1.6 to 2.0 in approximately 60 minutes†
- Eliminate the need for organic extractions and high-speed centrifugations

PR-A1120

No. of Preps	Sample Size	Yield	Mfr. No.	Cat. No.	Each
100	300µL	5–15µg/300µL	A1120	**PR-A1120**	174.09
500 (5 × 100)	300µL	5–15µg/300µL	A1125	**PR-A1125**	429.99
100	10mL	5–15µg/300µL	A1620	**PR-A1620‡**	1085.46

† To fully rehydrate DNA, allow an additional hour at 65°C (149°F) or overnight at room temperature.
‡ PR-A1620 does not include RNase Solution.

Promega™ Wizard™ SV 96 Genomic DNA Purification System

For 96-well processing using manual or automated protocols

- Provides fast, simple purification of intact DNA from tissue and cultured cells
- Processes up to 20 to 30µg of tissue, 1.2cm mouse tail or 5×10^6 cultured cells per well
- Purifies genomic DNA from mouse tails in 45 to 60 minutes following an overnight digest with Proteinase K and from cultured cells in about 30 minutes
- Eliminates the need for centrifugation steps
- Produces high yields of genomic DNA that can be used in demanding downstream analysis, including PCR

PR-A237 Series

STORAGE: Store at 22° to 25°C.

Quantity	Mfr. No.	Cat. No.	Each
1 × 96 preps	A2370	**PR-A2370**	226.53
4 × 96 preps	A2371	**PR-A2371**	841.10

Promega™ Wizard™ SV Genomic DNA Purification System

One system for tissue, cultured cells or mouse tails

- Permits fast, simple preparation of genomic DNA without centrifugation of the lysate prior to purification
- Processes up to 20mg of tissue, 1.2cm mouse tail or 5×10^6 cultured cells in a single prep
- Can be used in either microcentrifuge (spin) or vacuum protocol
- Processes up to 24 samples at once in microcentrifuge format, up to 20 samples in vacuum format with Vac-Man™ Laboratory Vacuum Manifold and Miniprep Vacuum Adapters
- Isolates genomic DNA from cultured cells in about 20 minutes and from tissue or mouse tails using overnight (16 to 18 hour) digest with Proteinase K, followed by a 20-minute isolation
- Produces high-quality purified DNA that is suitable for agarose gel analysis, restriction enzyme digestion and PCR

PR-A2360

Quantity	Mfr. No.	Cat. No.	Each
50 preps	A2360	**PR-A2360**	123.75
250 preps	A2361	**PR-A2361**	495.01

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Promega™ SV 96 Total RNA Isolation System

For the preparation of intact, purified total RNA from tissue culture cells

PR-Z3500

- Substantially reduces genomic DNA contamination through a DNase treatment step
- Purifies 96 samples at once, in less than one hour, with the walk-away automated protocol
- Compatible with automated liquid-handling workstations
- Eliminates the need for phenol/chloroform extraction or ethanol precipitation

No. of Preps	Mfr. No.	Cat. No.	Each
1 × 96	Z3500	**PR-Z3500**	338.75
5 × 96	Z3505	**PR-Z3505**	1476.64

Promega™ SV Total RNA Isolation System

Membrane-based system for purification of intact total RNA from tissues, cultured cells and white blood cells in as little as one hour

- Can process up to 60mg of tissue per purification, depending on tissue type
- Incorporates a DNase treatment step directly on the minicolumn membrane that reduces genomic DNA contamination
- Purification is acheved without using phenol:chloroform extractions or ethanol precipitations and there is no DNase carryover
- Purified RNA obtained is suitable for all routine molecular biology applications, including RT-PCR and Northern blotting

PRZ3100

Quantity	Mfr. No.	Cat. No.	Each
50 preps	Z3100	**PRZ3100**	257.99
250 preps	Z3105	**PRZ3105**	1177.75

NGS Kits

Axygen™ AxyPrep Mag™ PCR Clean-up Kits

Post PCR clean-up simplified

The efficient removal of unincorporated dNTPs, salts and enzymes after any PCR is detrimental to the success or failure of down stream applications such as genotyping Sanger and next generation sequencing. The AxyPrep Mag PCR Clean-up kit utilizes a unique paramagnetic bead technology for quick high-throughput purification of PCR amplicons. It also utilizes an optimized buffer to selectively bind PCR amplicons of variable sizes >60 bp or >100 bp to paramagnetic beads, providing end users flexibility and high recovery options with efficient primer-dimer removal based on their downstream applications needs. The protocol mainly consists of binding, washing and elution steps. Primers, nucleotides, salts and enzymes in PCR mixture are removed during the binding and washing steps. The purified PCR product is essentially free of contaminants.

AxyPrep Mag PCR Clean-up Kits

APPLICATIONS:
PCR, Sequencing (Sanger and Next Generation), Genotyping and SNP detection, Restriction enzyme clean-up, Cloning

Description	Mfr. No.	Cat. No.	Each
5mL; 110 Preps	MAG-PCR-CL-5	**14-223-151**	164.50
50mL; 1110 Preps	MAG-PCR-CL-50	**14-223-152**	741.50
250mL; 5550 Preps	MAG-PCR-CL-250	**14-223-153**	2460.00

results delivering solutions

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Axygen™ AxyPrep Mag™ FragmentSelect Kits

Next generation sequencing sample preparation simplified

Post DNA shearing, the library construction process for next generation sequencing mostly requires fragment selection regardless of the platform. Obtaining high recovery post fragment selection is becoming an important contributor for the reduction of sequencing bias. The AxyPrep FragmentSelect-I kit is optimized for Illumina next generation sequencing platforms and Life Technologies (SOLiD) fragment size selection needs, simplifying the library construction workflows. The AxyPrep FragmentSelect-R is designed for fragment size selection needs in the Roche/454s DNA Genome sequencer library construction workflow. The AxyPrep Mag FragmentSelect kits utilize a unique paramagnetic bead technology for quick high-throughput optimized DNA size selection suitable for various next generation sequencing platforms.

- Optimized fragment selection chemistries for Illumina, SOLiD and Roche/454
- Versatile and flexible sequential fragment size selection: no gels needed
- Efficient removal of primer-dimers; no need for further clean-up steps
- Manual and automation friendly
- Scalable: Tube, 96 and 384 well microplate formats
- No centrifugation or filtration required

14-223-157

AxyPrep FragmentSelect kits consist of two major stages:

- Optimization of AxyPrep FragmentSelect beads ratio to input DNA for desired target DNA fragment size selection
- The optimal AxyPrep FragmentSelect beads ratio is utilized for the isolation of the desired target DNA fragment size

Note:
AxyPrep FragmentSelect kits can be a one-stage process when large size DNA fragments is not a concern.

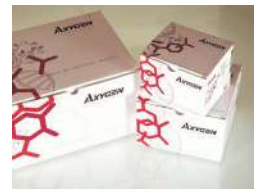
Description	Mfr. No.	Cat. No.	Each
FragmentSelect-R			
5mL; 4 Preps	MAG-FRAG-R-5	**14-223-157**	164.00
50mL; 350 Preps	MAG-FRAG-R-50	**14-223-158**	714.06
250mL; 1750 Preps	MAG-FRAG-R-250	**14-223-159**	2380.22
FragmentSelect-I			
5mL; 4 Preps	MAG-FRAG-I-5	**14-223-160**	164.00
50mL; 380 Preps	MAG-FRAG-I-50	**14-223-161**	761.00
250mL; 1900 Preps	MAG-FRAG-I-250	**14-223-162**	2380.22

Axygen™ AxyPrep Mag™ DyeClean Kits

Scalable dye terminator clean-up simplified

Excess dye terminator clean-up post sequencing reaction clean-up is an essential step prior to sequencing. The carryover of excess dye into sequencing results in dye blobs which leads to overwhelming noise and failed calls of sequenced bases and potentially leads to the failure of the sequencing run. AxyPrep Mag DyeClean utilizes a unique paramagnetic bead-based sequencing purification system optimized for the clean-up of excess dye terminator post sequencing reaction in Sanger sequencing. The protocol mainly consists of binding, washing and elution steps and can be performed directly in the thermal cycling plate and requires no centrifugation or filtration.

- Saves time and money: Significant BigDye™ savings without incurring extra cost and processing time with unneeded BigDye signal enhancer buffer, while maintaining high QV20+ scores
- High signal-to-noise ratio resulting in long reads and high QV20+ scores
- Efficient removal of various excess dye terminator chemistries including: BigDye versions 1.1 and 3.1 and DYEnamic ET



14-223-163

- Suitable for the clean-up of sequencing reaction of different Sanger sequencing based platforms: ABI Prism 3730, 3730xl, 3700, 3130, 3130xl and 3100; and GE Healthcare MegaBACE
- Simple and easy sequencing reaction clean-up process: 25 minutes/96 samples
- Manual and automation friendly
- Scalable: tube, 96 and 384 well microplate formats
- No centrifugation or filtration required

Description	Mfr. No.	Cat. No.	Each
50mL; 5000 Preps	MAG-DYECL-50	**14-223-163**	1476.00
5mL; 500 Preps	MAG-DYECL-5	**14-223-164**	268.50
250mL; 25000 Preps	MAG-DYECL-250	**14-223-165**	6140.00

Axygen™ IMAG Handheld Magnetic Beads Separation Devices

Transform low throughput to high throughput separation by a flip of a tube or microplate

The use of paramagnetic bead based separation devices (MSDs) are an essential accessory in any magnetic bead based purification process. However, traditionally MSDs are not optimized for manual use and most require electrically powered liquid handling systems. The IMAG MSDs, in their tube or microplate formats, are designed to simplify the manual processing of magnetic bead based separation applications including: nucleic acid purification and clean up; cell based assays; and antibody and protein purification.

- Accommodate single tube or 96 well microplate format
- Increase operational efficiency
- Fast separation time: design includes strong magnets providing less than 30 seconds separation time
- Reduce cost of consumable and processing time: designed to hold the plate or tube in place for faster disposal of unwanted liquids, which reduces the need for extra pipetting steps and saves on tips

14-223-401

- Manually operated with low to high throughput capabilities: ideal backup system when your expensive liquid handler is down or there is a power outage
- Optimized for different AxyPrep Mag™ protocols; magnets address different volumes for tubes and plate types

Description	Mfr. No.	Cat. No.	Each
For 0.5, 1.5 and 2.0mL Screw Cap Tubes	IMAG-12T	**14-223-401**	510.00
For 96 Microplates	IMAG-96P	**14-223-402**	703.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Nucleic Acid Archiving

Whatman™ FTA™ Card Storage and Shipping Supplies

For collection, storage, processing and shipping FTA and FTA elute cards

Multi-Barrier Pouches

- Seven-layer pouch protects cards from environmental contamination
- Tamper-evident seal maintains sample security

Desiccant Packet

- 1g packet ensures that FTA Cards remain dry during transport or storage

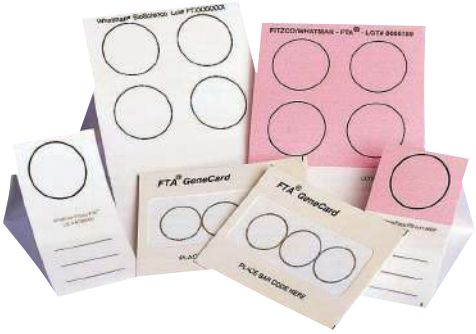
Description	Mfr. No.	Cat. No.	Pack of
Multi-Barrier Pouch for FTA Classic Cards	WB100037	**05-715-112**	100/133.90
Multi-Barrier Pouch for FTA Gene Cards, Mini Cards or Micro Cards	WB100036	**05-715-111**	100/81.10
Multi-Barrier Pouch for CloneSaver Cards	WB100024	**09-923-359**	50/160.90
Dessicant Packet	WB100003	**09-923-360**	1000/340.00

Whatman™ FTA™ Nucleic Acid Collection, Storage and Purification Cards

Collect, store and transport DNA at room temperature

Patented FTA technology simplifies the isolation, storage and processing of nucleic acids from biological sources including whole blood, buccal cells and plant material. Sample is applied to the FTA card and allowed to dry; the cells are lysed on contact. The released DNA is captured, stabilized and protected from nucleases, oxidation and UV damage.

- DNA from blood stored at room temperature on FTA cards exhibits no loss in PCR efficiency after 22 years and counting
- FTA cards are available in white and as pink indicating cards for colorless fluids
- Pink indicating cards disclose where colorless samples have been spotted by changing to white spot
- Indicating FTA cards change color from pink to white upon sample addition to easily identify sample location, making them ideal for colorless samples
- FTA Gene Card is housed in a chipboard frame for compatibility with most automatic dispensing/pipetting systems when used with the FTA Gene Card Tray (09-923-349)
- CloneSaver™ Cards capture BAC and plasmid DNA from bacterial culture, resuspended colony or glycerol stock in a 96-well format and are stable at room temperature for at least four years



Clockwise from top left: 09-923-340, 09-923-341, 09-923-345, 09-923-346, 09-923-344

Indicator Supplied	Quantity	Mfr. No.	Cat. No.	Each
CloneSaver Card				
Yes	1/Pk.	WB120028	**09-923-347**	246.50
FTA Classic Cards				
No	25/Pk.	WB120305	**05-715-102**	453.00
No	100/Pk.	WB120205	**09-923-340**	647.50
No	250/Pk.	WB120312	**09-302-192**	1126.00
Yes	100/Pk.	WB120206	**09-923-341**	832.50
FTA Gene Cards				
No	100/Pk.	WB120208	**09-923-346**	645.50
FTA Micro Cards				
No	100/Pk.	WB120210	**09-923-344**	445.50
No	250/Pk.	WB120316	**09-302-196**	775.00
Yes	100/Pk.	WB120211	**09-923-345**	556.14
FTA Mini Cards				
No	100/Pk.	WB120055	**09-923-342**	566.50
Yes	100/Pk.	WB120056	**09-923-343**	686.50

Whatman™ FTA™ Purification Reagent

Solution for rapid purification of DNA stored on FTA Cards

- Reagent prepares DNA from a wide variety of specimens including whole blood, epithelial cells, cell cultures, solid tissues, yeast and bacteria
- Simple washing procedure removes contaminants

09-923-348

Description	Quantity	Mfr. No.	Cat. No.	Each
FTA Purification Reagent	500mL	WB120204	**09-923-348**	322.00

Whatman™ OmniSwab™

For the collection of buccal cells

- Brush-like swab head easily ejects from the stem of the swab for easy transfer of samples into tubes and multiwell plates
- Individually packaged for single use

09-923-376

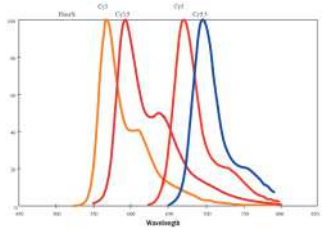
Mfr. No.	Cat. No.	Pack of 100
WB10-0035	**09-923-376**	211.00

Nucleic Acid Labeling

GE™ Healthcare Amersham™ CyDye™ Fluorescent Nucleotides

High sensitivity

For labeling DNA and RNA probes especially for multicolor analysis in microarrays, FISH, chromosome identification, whole chromosome painting, karyotyping and gene mapping. CyDye labeled nucleotides are available in a range of bright, intense colors with narrow emission bands — ideal for multiplexing within a single sample.



Emission spectra of the CyDye fluors

- Low nonspecific binding
- High photostability
- High water solubility
- pH insensitive

Description	Quantity	Mfr. No.	Cat. No.	Each
Cy3-dCTP	25nmol	PA53021	**45-000-737**	409.34
Cy3-dUTP	25nmol	PA53022	**45-000-738**	409.34
Cy3-dCTP	250nmol	PA53031	**45-001-282**	3116.47
Cy3-dUTP	250nmol	PA53032	**45-001-284**	3116.47
Cy5-dCTP	25nmol	PA55021	**45-000-739**	423.06
Cy5-dCTP	250nmol	PA55031	**45-001-283**	3116.47
Cy5-dUTP	25nmol	PA55022	**45-000-740**	423.06
Cy5-dUTP	250nmol	PA55032	**45-001-285**	3116.47
Value Pack: Cy3-dCTP, Cy5-dCTP	5 × 25nmol ea.	PA55321	**45-001-240**	3116.47
Value Pack: Cy3-dUTP, Cy5-dUTP	5 × 25nmol ea.	PA55322	**45-001-241**	3116.47

GE™ Healthcare Amersham™ ECL™ Direct Nucleic Acid Labeling/ Detection System

For fast and easy detection of medium-to-high-target amounts

- Consistent results combining strong signals with very low backgrounds
- No need to strip the blot before reprobing: saves time, reduces membrane damage and minimizes exposure to hazardous chemicals
- Less than four hours from probe labeling to detection in high-target amount applications with no antibody steps
- Based on the direct labeling of DNA or RNA probes with horseradish peroxidase (HRP) in a simple 20-minute chemical reaction

APPLICATIONS:
Colony/plaque screens, dot blots and PCR product analyses

INCLUDES:
45-000-922 and 45-000-923: Labeling reagent; Crosslinker; Control DNA; Blocking agent; ECL detection reagents and ECL Gold hybridization buffer

For	Mfr. No.	Cat. No.	Each
Labeling and Detection Systems			
Labeling 5µg	RPN3000	**45-000-922**	641.55
Labeling 10µg	RPN3001	**45-000-923**	826.35
Detection Reagents			
4000cm² membrane	RPN2105	**45-000-874**	449.40

GE™ Healthcare Amersham™ Rapid-hyb Buffer

Pre-mixed, rate-enhancing hybridization buffer reduces hybridization time for detecting single-copy mammalian genes to just two hours

- For use with radiolabeled DNA, RNA or oligonucleotide probes
- Pre-mixed solution improves reproducibility between experiments
- Suited for Southern and Northern blotting applications
- Available in two different quantities, sufficient for 1000cm² membrane and 4000cm² membrane

NOTES: Developed for use with nylon membranes; not suitable for use with PVDF or nitrocellulose membranes.

Quantity	Mfr. No.	Cat. No.	Each
125mL (for 1000cm² membrane)	RPN1635	**45-000-813**	150.65
500mL (for 4000cm² membrane)	RPN1636	**45-000-814**	403.01

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

GE™ Healthcare Amersham™ Rediprime II DNA Labeling System

Pre-mixed, individually dispensed, random-prime reactions, freeze-dried for ambient stability

Simply add substrate and [α-^{32}P]dCTP. As little as 25ng substrate DNA can be used.

- Ambient temperature-stable reactions with a color check for the labeling of DNA to specific activities of >10^9dpm/µg
- Long shelf life and simple, fast protocol; labeling reaction complete in 10 minutes
- No need to remove unincorporated nucleotides before hybridization
- DNA can be labeled in solution or in the presence of low melting point agarose

INCLUDES:
Each system includes the following components, in quantities sufficient for 30 or 60 reactions (dependent on product ordered): Premixed, predispensed tubes, 30X labeling mix and control DNA.

NOTES: Suitable for use with dCTP only.

Quantity	Mfr. No.	Cat. No.	Each
30 Reactions	RPN1633	**45-000-812**	418.84
60 Reactions	RPN1634	**45-001-764**	676.26

GE™ Healthcare Ready-to-Go™ DNA Labeling Beads (-dCTP)

Ambient-temperature-stable, single-dose reaction spheres for labeling DNA to specific activities >10^9dpm/µg in as little as 5 min. using labeled dCTP

- Beads are predispensed in individual reaction tubes to eliminate the potential for cross-contamination
- Beads reconstitute immediately upon addition of water or buffer to a final reaction volume of 50µL
- DNA can be labeled in solution or in the presence of low melting point agarose
- Reaction mixtures efficiently incorporate ^{32}P- or ^{35}S-labeled dCTP
- Each reaction is capable of labeling between 10ng and 1µg of linearized DNA

STORAGE:
Store at room temperature. Protect from moisture with supplied airtight pouch and desiccant. Store reconstituted control DNA at 4°C.

Quantity	Mfr. No.	Cat. No.	Each
Sufficient for 20 reactions	27924001	**45-001-409**	195.85

INCLUDES:
Labeling beads (from a buffered aqueous solution containing dATP, dGTP, dTTP, random nonamers [d(N)$_9$] and Klenow fragment) and control DNA bead

RFLP analysis of two strains of Magnaporthe grisea using Cos53 probe labeled with Ready-To-Go DNA Labeling Beads (-dCTP). Each set of adjacent lanes contains 2.5µg of fungal genomic DNA isolated from strain GuyII (odd-numbered lanes) or strain 2539 (even-numbered lanes) digested with 10 units of various restriction enzymes: Lanes 1 and 2, Apa I; lanes 3 and 4, Bam HI; lanes 5 and 6, Bgl I; lanes 7 and 8, Dra I; lanes 9 and 10, Eco RI. Marker (M) is end-labeled I DNA-Hind III digest. Autoradiogram courtesy of Dr. Mark Farman of the Univ. of Wisconsin, Madison, WI, USA.

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Odor Control

The Pill™ Autoclave Deodorizer

Neutralizes odors from autoclaving

- One capsule treats 7 cu. ft. of autoclave capacity
- Gelatin capsule keeps deodorizer off fingers, ensures economical dose rate

04-355-23

Cat. No.	Pack of	Case of
04-355-23	100/89.40	20 Pk./1395.00
04-355-24	500/304.50	6 Pk./1549.00

Osmometry

Osmette II™ and Osmette III™ Osmometers

The simplicity and dependability of Osmette™ osmometers in a small, lightweight size

Ideal for freezing-point measurement of osmolality. One-step measurement.

12-827-35

Osmette II offers:

- Auto operation from 0 to 2000mOsm/kg H_2O, ±<2mOsm/kg H_2O (±1 S.D.) Autocalibration in <5 min.; inherent stability minimizes daily calibration checks
- Thermoelectric heat sink for cooldown time of ~2 to 3 min.
- Precise results displayed digitally in just 60 to 90 sec.
- Use self-filling disposable plastic sample tubes
- RS-232-C output

Osmette III features all of the above plus:

- Easy-to-use keypad
- Built-in printer and statistical software

APPLICATIONS:
Pediatric, neonatal, geriatric and other applications where sample volume is limited.

ORDERING INFORMATION:
Weight: 9 lb. (4.1kg). Dimensions: 14L × 8.5W × 5"H (35.6 × 21.6 × 12.7cm). Electrical requirements: 115V 50/60Hz, 0.5A.

Model	Mfr. No.	Cat. No.	Each
Osmette II	5005	**12-827-31**	10,225.21
Osmette III	5010	**12-827-35**	10,550.03

Osmette™ Osmometers

Automatic digital osmometers measure osmolality in mOsm/kg H_2O

Use the freezing point depression method to provide a quick, accurate indication of total concentration. Instruments measure freezing points of solutions to 0.001°C, then directly translate them to measure of concentration.

Osmette A Model 5002 (12-827-5)

Easy to Use

- Add sample tube to well, lower operating head to insert wire and thermistor temperature probe into the sample
- Entire cycle takes between one-half and one minute per sample

Speedy and convenient

- Fast cooldown, completely zero-stable meter
- Reach operating temperature in <15 min. vs. 40 to 60 min. for other cryoscopic devices
- Eliminate Dewar flasks, ice baths, calculations
- Generate precise results in just 50 to 70 sec.; process 40 to 60 samples per hour
- Minimal training; simple two-step calibration takes less than five minutes
- All models hold calibration, eliminating daily calibration

Osmette A, Model 5002

- Small 2 oz. (59mL) bath allows faster results with better control

Osmette XL, Model 5007

- Microprocessor-controlled calibration
- Includes built-in printer, keypad, statistical software and RS-232-C port
- Small 2 oz. (59mL) bath allows faster results with better control

Micro-Osmette, Model 5004

- Features electronic cooling instead of a bath

Multi-Osmette, Models 2430

- 24-position sample turntable for true walk-away operation
- Feature electronic cooling instead of a bath
- Self-calibrating

Model Name	Osmette A	Osmette XL	Micro-Osmette	Multi-Osmette
Model No.	5002	5007	5004	2430
Operation	Automatic	Automatic	Automatic	Automatic
Sample Size	2.0 or 0.2mL	2.0 or 0.2mL	50µL	30µL
Range (mOsm/kg H_2O)	0 to 3000	0 to 3000	0 to 3000	0 to 2000
Precision[1]	For 2.0mL sample: <1000mOsm/kg: ±1mOsm/kgH_2O; >1000mOsm/kgH_2O: ±0.2%. For 0.2mL sample: <500mOsm/kg: ±2mOsm/kgH_2O; >500mOsm/kgH_2O: ±0.5%.		<1000mOsm/kgH_2O: ±2mOsm/kgH_2O. >1000mOsm/kgH_2O: ±0.5%CV at 300mOsm/kgH_2O: <1%.	
Digital Readout	Automatic High Sensitivity	Automatic	Automatic	Automatic
Cooling Agent	Thermoelectric refrigerator[2]	Thermoelectric cooler[2]	Thermoelectric cooling block	Thermoelectric cooling block
Cool-down Time	10 to 15 min.	10 to 15 min.	~3 min.	~3 min.
Measurement Time	P1 min.	P1 min.	P1 min.	P1 min.
Calibration Time	<5 min.	<5 min.	<5 min.	<5 min.
Dimensions	8L × 15W × 10"H (20 × 38 × 25cm)	8L × 15W × 10"H (20 × 38 × 25cm)	15L × 5W × 10"H (38 × 13 × 25cm)	20L × 18W × 12"H (51 × 46 × 30cm)
Electrical Reqts.	115V 50/60Hz	115V 50/60Hz	115V 50/60Hz	115V 50/60Hz
Mfr. No.	5002	5007	5004	2430
Cat. No.	**12-827-5**	**12-827-33**	**12-827-7**	**12-827-30**
Each	9430.00	11,510.00	10,190.00	17,750.00

[1] *Reproducibility, 1 S.D. (one standard deviation).*
[2] *With liquid bath.*

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Ovens

General Purpose

Fisher Scientific™ Isotemp™ Premium Lab Ovens

Full-feature ovens available as gravity-flow or forced-air models in a variety of sizes

Operating Features

- Intuitive microprocessor controls with touch keypad, LED digital display and on-screen prompts
- Variable temperature control from 50° to 275°C in 1°C increments
- Automatic overtemperature protection at 5°C above setpoint with visual alarm
- Last settings retained in memory
- Built-in safety backup and circuit breaker to protect oven from power surges

Cabinet Features

- Easy-to-clean stainless-steel chambers
- Enamel-painted steel exterior with coated aluminum trim
- Low-watt-density, longlife heating elements
- Thick 2.5" (6.4cm) all-around fiberglass insulation keeps exterior cool
- Gasketed door has stay-cool latch; opens 180° for easy access
- Adjustable chrome-plated steel wire shelves (16.75 × 17.375" [44 × 42.5cm])
- Nonskid rubber feet elevate cabinet for ventilation

Three Sizes

- Small: 2.5 cu. ft. chamber volume; supplied with one shelf (holds up to 5)
- Medium: 3.75 cu. ft.; with one shelf (holds up to 8)
- Large: 5.0 cu. ft.; with two shelves (holds up to 11)

Forced-Air Ovens

- Deliver more uniform heating for better temperature control and faster drying
- Blower circulates air throughout chamber; fresh air is mixed in and recirculated
- Used air vented through top of oven

13-247-725F

Gravity-Flow Ovens

- Vertical airflow for uniform sample heating
- Used air expelled through top-mounted vent

ORDERING INFORMATION:
Shelf 13-247S is available online.

INCLUDES:
Small oven supplied with one shelf (holds up to 5). Medium oven has one shelf (holds up to 8). Large oven comes with two shelves (holds up to 11).

WARRANTY:
12 months

	Forced-Air Ovens			*Gravity-Flow Ovens*		
Model	Small	Medium	Large	Small	Medium	Large
Chamber Volume	2.5 cu. ft. (70.8L)	3.75 cu. ft. (102.6L)	5.0 cu. ft. (141.6L)	2.5 cu. ft. (70.8L)	3.75 cu. ft. (102.6L)	5.0 cu. ft. (141.6L)
Temperature Range	50° to 275°C	50° to 275°C	50° to 275°C	50° to 275°C	50° to 275°C	50° to 275°C
Uniformity at 200°C[1]	±3°C	±3°C	±3°C	±4°C	±4°C	±4°C
BTU per Hour (200°C)	2750	2925	3095	1325	2025	2140
Control	±0.5°C	±0.5°C	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Recovery[2]	1 minute	2 minutes	2.5 minutes	2 minutes	3 minutes	4 minutes
Air Changes per Hour	43	29	22	24	16	12
Exterior L × W × H[3]	23.5 × 25.75 × 26" (60 × 65 × 66cm)	23.5 × 25.75 × 33" (60 × 65 × 84cm)	23.5 × 25.75 × 39.25" (60 × 65 × 100cm)	23.5 × 25.75 × 26" (60 × 65 × 66cm)	23.5 × 25.75 × 33" (60 × 65 × 84cm)	23.5 × 25.75 × 39.25" (60 × 65 × 100cm)
Chamber D × W × H	18 × 18 × 13.5 (46 × 46 × 34cm)	18 × 18 × 20" (46 × 46 × 51cm)	18 × 18 × 26.5" (46 × 46 × 67cm)	18 × 18 × 13.5" (46 × 46 × 34cm)	18 × 18 × 20" (46 × 46 × 51cm)	18 × 18 × 26.5" (46 × 46 × 67cm)
Shipping Weight	120 lb. (54kg)	127 lb. (58kg)	135 lb. (61kg)	115 lb. (52kg)	130 lb. (59kg)	145 lb. (66kg)
Electrical Requirements[4]	120V 60Hz, 11A, 1300w	120V 60Hz, 20A, 1800w[4]	120V 60Hz, 20A, 1800w[4]	120V 60Hz, 11A, 1300w	120V 60Hz, 20A, 1800w[4]	120V 60Hz, 20A, 1800w[4]
Cat. No.	**13-247-725F**	**13-247-737F**	**13-247-750F**	**13-247-725G**	**13-247-737G**	**13-247-750G**
Each	2940.00	3300.00	3990.00	2400.00	2920.00	3410.00

[1]Average valve performed per ASTM™ E 145.
[2]Door open 1 minute at 200°C.
[3]Length includes thickness of door; does not include handle.
[4]Units require a 20-amp outlet (NEMA 5–20R).

Fisher Scientific™ Isotemp™ Standard Lab Ovens

Gravity-flow convection ovens with electronic control, ideal for general laboratory drying

- Temperature range: 50° to 225°C (122° to 437°F)
- Three sizes available
- Quick, easy temperature setting
- Backup temperature control
- Fast temperature recovery time
- Indicator lights show which thermostat is controlling oven temperature
- Durable powder-coated steel exterior
- Corrosion-resistant, easy to clean, stainless-steel interior
- Exterior remains at safe temperature
- Adjustable shelf heights
- Oven temperature can be monitored in port on top
- Door opens 180° and features grabber-type latch
- Nonslip black synthetic rubber feet

13-247-625G

Model	*Small*	*Medium*	*Large*
Capacity (Chamber Volume)	2.5 cu. ft. (70.8L)	3.75 cu. ft. (106.2L)	5.0 cu. ft. (141.6L)
Temperature Range	50° to 225°C	50° to 225°C	50° to 225°C
Uniformity at 200°C[1]	±5°C	±5°C	±5°C
BTU per Hour (200°C)	1325	2025	2140
Control Sensitivity	±0.5°C	±0.5°C	±0.5°C
Recovery[2]	2 minutes	4 minutes	4 minutes
Air Exchanges per Hour	24	16	12
Exterior L × W × H[3]	23.5 × 25.75 × 26" (60 × 65 × 66cm)	23.5 × 25.75 × 33" (60 × 65 × 84cm)	23.5 × 25.75 × 39.25" (60 × 65 × 100cm)
Chamber D × W × H	18 × 18 × 13.5" (46 × 46 × 34cm)	18 × 18 × 20" (46 × 46 × 51cm)	18 × 18 × 26.5" (46 × 46 × 67cm)
Shipping Weight	115 lb. (52kg)	125 lb. (57kg)	140 lb. (64kg)
Electrical Requirements	120V 60Hz, 11A, 1300w	120V 60Hz, 11A, 1300w	120V 60Hz, 11A, 1300w
Cat. No.	**13-247-625G**	**13-247-637G**	**13-247-650G**
Each	1815.00	2200.00	2470.00

[1] Average value performed per ASTM™ E 145.
[2] Door open one minute at 200°C.
[3] Length includes thickness of door; does not include handle.

LOOKING FOR MORE FISHER SCIENTIFIC™ ISOTEMP™ LAB OVENS?

Visit www.fishersci.com and search for Ovens

HOW BLUE IS YOUR LAB?

Look for the Fisher Scientific name when making purchasing decisions. We offer a wide variety of products that make it easy for you to purchase the products you need every time you order.

Why Choose Blue? Quality and Durability: The Fisherbrand* Promise: If our product does not perform to published specifications, we will replace it—no questions asked.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Heratherm™ General Protocol Ovens

Perfect for routine day-to-day work

Provide a choice of gravity convection for gentle drying and heating, or mechanical convection for faster drying and heating and superior temperature uniformity. Gravity convection units are designed to protect delicate samples while offering temperature uniformity of ±4°C or better and temperature stability of at least ±0.4°C at 150°C. Mechanical convection models provide temperature uniformity of ±4.0°C or better and temperature stability of at least ±0.4°C at 150°C.

- Five sizes (60, 100, 180, 400 or 750L)
- Operating temperatures from 50° to 250°C
- Automatic over-temperature alarm system to protect samples
- Low overall energy consumption
- Built in timer
- Excellent footprint/volume ratio
- Corrosion-resistant galvanized steel chambers with rounded corners for easy cleaning
- Large, easy to read vacuum fluorescent display
- Easy to use, microprocessor-controlled touch button operation
- Easy to access — doors can be opened to over 180°C

Heratherm General Protocol Oven

Specifications	
Controller	Microprocessor control with vacuum fluorescent display
Timer	ON / OFF
Temperature Range	50° to 250°C (60, 100, 180L); Ambient +10° to 300°C (750L)
Max. Shelf Load	25kg (55 lbs.) (60, 100, 180L); 40kg (88 lbs.) (750L)

Chamber Volume	Interior D × W × H	Exterior L × W × H	No. of Shelves Supplied / Max.	Temperature Uniformity / Stability at 32°C	Electrical / Rated Power/ Max. Amp.	Cat. No.	Each
Gravity Convection							
2.30 cu. ft. (65L)	16.4 × 12.9 × 18.9" (415 × 328 × 480mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	±4.0°C / ±0.4°C	120V; 60Hz; 1730w; 14.4A	**51-028-112H**	1876.00
3.75 cu. ft. (105L)	16.3 × 17.2 × 22.8" (414 × 438 × 580mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±4.5°C / ±0.4°C	120V; 60Hz; 1680w; 14A	**51-028-872H**	2190.00
3.75 cu. ft. (105L)	16.3 × 17.2 × 22.8" (414 × 438 × 580mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±4.0°C / ±0.4°C	208-240V; 60Hz; 3360w; 14A	**51-028-113H**	2168.00
6.20 cu. ft. (176L)	23.2 × 17.2 × 26.8" (589 × 438 × 680mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±5°C / ±0.4°C	120V; 60Hz; 1680w; 14A	**51-028-874H**	2628.00
6.20 cu. ft. (176L)	23.2 × 17.2 × 26.8" (589 × 438 × 680mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±4.0°C / ±0.4°C	208-240V; 60Hz; 3360w; 14A	**51-028-114H**	2602.00
14.79 cu. ft. (419L)	23.2 × 21.4 × 51.5" (590 × 544 × 1307mm)	30.3 × 30.6 × 60.8" (770 × 778 × 1545mm)	2 / 39	±3.0°C / ±0.5°C	208-240VAC; 60Hz; 2640w; 11A	**51-029-327H**	5370.00
27.33 cu. ft. (774L)	23.2 × 39.5 × 51.5" (590 × 1004 × 1307mm)	30.3 × 49.7 × 60.8" (770 × 1261 × 1545mm)	2 / 39	±3.7°C / ±0.5°C	208-240VAC; 60Hz; 3240w; 13A	**51-029-339H**	7380.00
Mechanical Convection							
2.30 cu. ft. (66L)	14.5 × 13.9 × 20.0" (368 × 354 × 508mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	±3.3°C / ±0.3°C	120V; 60Hz; 1440w; 12A	**51-028-121H**	2188.00
3.65 cu. ft. (104L)	14.5 × 18.3 × 23.9" (368 × 464 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±3.5°C / ±0.4°C	120V; 60Hz; 1660w; 13.8A	**51-028-873H**	2634.00
6.30 cu. ft. (104L)	14.5 × 18.3 × 23.9" (368 × 464 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±2.5°C / ±0.3°C	208-240V; 60Hz; 3360w; 14A	**51-028-122H**	2607.00
6.30 cu. ft. (179L)	21.4 × 18.3 × 27.9" (543 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±3.5°C / ±0.3°C	120V; 60Hz; 1660w; 13.8A	**51-028-875H**	3070.00
6.30 cu. ft. (179L)	21.4 × 18.3 × 27.9" (543 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±3.0°C / ±0.3°C	208-240V; 60Hz; 3360w; 14A	**51-028-123H**	3037.00

Thermo Scientific™ Heratherm™ Advanced Protocol Ovens

Provide a choice of gravity or mechanical convection. Gravity convection units are designed to protect delicate samples while offering temperature uniformity of ±2.9°C or better and temperature stability of at least ±0.3°C at 150°C. Mechanical convection models provide temperature uniformity of ±3.0°C or better and temperature stability of at least ±0.2°C at 150°C.

- Broad temperature range — up to 330°C
- Adjustable fan speed for application-related airflow in mechanical convection models (e.g. drying of powders)
- High speed for expedited drying and heating, quick recovery and optimal temperature stability and uniformity
- Programmable controller for temperature ramps and dwells
- Up to 10 programs can be saved, each with 10 discrete steps
- Features electronically controlled fan speed and damper position
- Programs can be repeated automatically
- Access port allows the introduction of sensors for independent data monitoring
- Simple calibration routine ensures temperature accuracy over time
- Boost function enables rapid heating up — no need to operate the oven 24/7 (not available in large capacity units)

Heratherm Advanced Protocol Oven

Specifications	
Controller	Programmable microprocessor control with vacuum fluorescent display
Timer	Weekly / Real Time / Hour
Temperature Range	50° to 330°C (60, 100, 180L); Ambient +10° to 250°C (400, 750L)
Max. Shelf Load	25kg (55 lbs.) (60, 100, 180L); 40kg (88 lbs.) (400, 750L)

Chamber Volume	Interior D × W × H	Exterior L × W × H	No. of Shelves Supplied / Max.	Temperature Uniformity / Stability at 32°C	Electrical / Rated Power/ Max. Amp.	Cat. No.	Each
Gravity convection, coated-steel exterior							
2.15 cu. ft. (61L)	15.3 × 12.9 × 18.9" (389 × 328 × 480mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	±2.5°C / ±0.3°C	120VAC/60Hz / 1730w / 14.4A	**51-028-115H**	2520.00
3.60 cu. ft. (99L)	15.3 × 17.2 × 22.8" (389 × 438 × 580mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±2.5°C / ±0.3°C	208 -240VAC/60Hz / 3360w / 14A	**51-028-116H**	2610.00
6.05 cu. ft. (168L)	22.2 × 17.2 × 26.8" (564 × 438 × 680mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±2.9°C / ±0.3°C	208 -240VAC/60Hz / 3360w / 14A	**51-028-117H**	3150.00
Mechanical convection, coated-steel exterior							
2.20 cu. ft. (62L)	13.5 × 13.9 × 20.0" (343 × 354 × 508mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	±1.5°C / ±0.2°C	120VAC/60Hz / 1440w / 12A	**51-028-124H**	3070.00
3.50 cu. ft. (97L)	13.5 × 18.3 × 23.9" (343 × 464 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±1.3°C / ±0.2°C	208 -240VAC/60Hz / 3360w / 14A	**51-028-125H**	3420.00
6.10 cu. ft. (170L)	20.4 × 18.3 × 27.9" (518 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±1.5°C / ±0.2°C	208 -240VAC/60Hz / 3360w / 14A	**51-028-126H**	4100.00
13.98 cu. ft. (396L)	21.5 × 21.4 × 52.6" (545 × 544 × 1335mm)	30.3 × 30.6 × 60.8" (770 × 778 × 1545mm)	2 / 39	±2.1°C / ±0.3°C	208-240VAC 60Hz3000w; 13.5A	**51-029-329H**	7260.00
25.81 cu. ft. (731L)	21.5 × 39.5 × 52.6" (545 × 1004 × 1335mm)	30.3 × 49.7 × 60.8" (770 × 1261 × 1545mm)	2 / 39	±3.1°C / ±0.4°C	208-240VAC 60Hz3000w; 14.5A	**51-029-343H**	9050.00

Thermo Scientific™ Heratherm™ Advanced Protocol Security Ovens

Offered in a choice of gravity or mechanical convection. Gravity convection units are designed to protect delicate samples while offering temperature uniformity of ±2.5°C or better and temperature stability of at least ±0.3°C at 150°C. Mechanical convection models provide temperature uniformity of ±1.5°C or better, and temperature stability of at least ±0.2°C at 150°C.

Heratherm Advanced Protocol Security Ovens

- Broad temperatures range — up to 330°C
- Optional sample sensor provides exact temperature of sample on display
- Auto-dry function deactivates oven when the samples are dry, saving energy (Note: Optional sample sensor is required to utilize this feature)
- Mechanical convection models — fan speed adjustable for application flexibility
- Advanced digital timer for daily or weekly on/off cycles
- Stainless-steel interior is easy to clean and corrosion resistant (steel quality AISI 304)
- Programmable controller for temperature ramps and dwells
- Up to 10 programs can be saved, each with 10 discrete steps
- Electronically controlled fan speed and damper position can be incorporated
- Programs can be repeated automatically
- Access port allows the introduction of sensors for independent data monitoring
- Simple calibration routine ensures temperature accuracy over time
- Boost function enables rapid heating up — no need to operate the oven 24/7

Specifications	
Controller	Programmable microprocessor control with vacuum fluorescent display
Timer	Weekly / Real Time / Hour
Temperature Range	50° to 330°C

Chamber Volume	Interior D × W × H	Exterior L × W × H	No. of Shelves Supplied / Max.	Temperature Uniformity / Stability at 32°C	Electrical / Rated Power/ Max. Amp.	Cat. No.	Each
Gravity Convection							
2.15 cu. ft. (61L)	15.3 × 12.9 × 18.9" (389 × 328 × 480mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	±2.5°C / ±0.3°C	120VAC; 60Hz / 1730w / 14.4A	**51-028-118H**	3300.00
3.60 cu. ft. (99L)	15.3 × 17.2 × 22.8" (389 × 438 × 580mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±2.5°C / ±0.3°C	208-240VAC; 60Hz / 3360w / 14A	**51-028-119H**	2720.00
6.05 cu. ft. (168L)	22.2 × 17.2 × 26.8" (564 × 438 × 680mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±2.9°C / ±0.3°C	208-240VAC; 60Hz / 3360w / 14A	**51-028-120H**	3260.00
Mechanical Convection							
2.2 cu. ft. (62L)	13.5 × 12.9 × 20" (343 × 328 × 508mm)	22.2 × 20.9 × 28.3" (565 × 530 × 720mm)	2 / 13	±1.5°C / ±0.2°C	120VAC; 60Hz / 1440w / 12A	**51-028-127H**	3300.00
3.5 cu. ft. (97L)	13.5 × 17.2 × 23.9" (343 × 438 × 608mm)	22.2 × 25.2 × 32.3" (565 × 640 × 820mm)	2 / 16	±1.3°C / ±0.2°C	208-240VAC; 60Hz / 3360w / 14A	**51-028-128H**	3660.00
6.1 cu. ft. (170L)	20.1 × 18.3 × 27.9" (518 × 464 × 708mm)	29.1 × 25.2 × 36.2" (738 × 640 × 920mm)	2 / 19	±1.5°C / ±0.2°C	208-240VAC; 60Hz / 3360w / 14A	**51-028-129H**	4350.00

Vacuum

Thermo Scientific™ Lindberg/Blue M™ Vacuum Ovens

Single-Setpoint Digital Microprocessor Control

- Maximum temperature: 260°C (500°F) with nominal uniformity of ±3.5% of setpoint
- Simultaneous LED display of setpoint and actual temperature with push-button view; resolution to within 1°C
- Keypad data entry and pull-out control module for easy service
- Independent overtemperature safety system factory set with reset push button

Vacuum System

- 1" (2.54cm) manifold, chamber rear, exterior, connects to pump or in-house vacuum source
- With inert gas injection valve, fresh air inlet, vacuum exhaust port, controllable vacuum release vent port
- 1000 microns (1 torr) capacity
- Vacuum gauge, vacuum, gas and inlet valves located on front

Construction

- Corrosion-resistant stainless-steel cabinet includes three aluminum shelves with painted or stainless-steel finish
- Rear-mounted vacuum manifold connects to pump (not included) or in-house vacuum source
- Low-watt heating element extends oven life
- Heavy-gauge steel, dual-wall construction with fiberglass insulation for minimum heat loss in walls and door
- High-temperature silicone gasket is specially molded for a positive seal
- Magnetic latch for positive door seal (4.5 cu. ft. capacity models include mechanical latches)
- Viewing windows: 0.5" (1.3cm) thick in two smaller capacity models or 0.75" (1.9cm) thick in 4.5 cu. ft. model; permit observation of work in progress without loss of heat
- Stainless-steel exterior models come with double door — a solid outer door over inner window door

INCLUDES:
Power cord and aluminum shelves (number of shelves based on model; see ordering table)

10-549-223

CERTIFICATIONS:
UL listed (VO914A, VO914SA, VO1218A, VO1218SA only).

ALERTS:
Ovens are not suitable for use with hazardous vapor. For use with nonflammable, noncorrosive inert gases only.

Products in this grouping may have voltages other than the standard US 110/115V. Please review and confirm your selection before completing your order. Some of these products may not be returned.

Specifications	
Control	Digital Microprocessor Control
Vacuum	1×10^{-2}; torr (10 microns)
Temperature Range	6° above ambient to 260°C
Temperature Resolution	±1°C
Temperature Uniformity	±3.5°C
Display	LED
Safety Features	Overtemperature Safety System
Chamber	Corrosion-resistant stainless steel
Ports	Inert gas port, vacuum port and vent port

Capacity	Electrical Requirements	Heatup Time	No. of Doors	No. of Shelves	Power Consumption	Mfr. No.	Cat. No.	Each
0.65 cu. ft. (18.6L)	208/240V 50/60Hz, 750w	96 min.	1	3	750w	VO914C	**10-549-223**	4100.00
1.5 cu. ft. (42.5L)	208/240V 50/60Hz, 1250w	200 min.	1	3	1250w	VO1218C	**10-549-224**	6930.00
4.5 cu. ft. (127.4L)	120V 50/60Hz, 1500w	250 min.	1	2	1500w	VO1824A	**10-549-227**	15,340.00
0.65 cu. ft. (18.6L)	120V 50/60Hz, 750w	96 min.	1	3	750w	VO914A	**13-258-13**	4040.00
1.5 cu. ft. (42.5L)	120V 50/60Hz, 1250w	200 min.	1	3	1250w	VO1218A	**13-258-13B**	6820.00

Thermo Scientific™ Vacutherm Vacuum Heating and Drying Ovens

Compact, modular systems are ideal for chemical and pharmaceutical applications

Modular system allows application-specific configurations through a wide range of equipment options. Ovens can dry up to six times faster than conventional units. Temperature and pressure documentation is available to meet ISO 9000 and GLP/GMP requirements.

- User-friendly Kelvitron™ microprocessor (jacket-heated ovens) or Digicon multi-channel controller (shelf-heated ovens)
- Analog pressure display
- Overtemperature sensor protects oven and sample
- Double-pane safety glass doors
- Stainless-steel vacuum fittings, tubing and ball valve
- Inert gas connection with precision valve and overpressure safety valve precisely releases nonflammable, nontoxic gasses
- Standard DN25 access port in rear wall

Jacket-heated Models

- Operate at temperatures up to 200°C

Shelf-heated Models

- Operate at temperatures up to 400°C
- Ensure an optimum heat transfer

ORDERING INFORMATION:
For applications with flammable solvents, ask your sales representative for our BL version with additional safety features.

Specifications	
Design Object Name	Modular design
Heating Range	Model M–Jacket heating: Heat transfer from the vacuum chamber via the shelves to the load Model P–Shelf Heating: The shelves incorporate heating coils. Heat is transferred directly to the load
Temperature	200°, 300° and 400°C
Max. Final Vacuum	1×10^{-2}; mbar (hPa)

Model	Capacity	Interior (D × W × H)	Exterior (L × W × H)	Heat Output	Electrical Requirements	No. of Shelves	Mfr. No.	Cat. No.	Each
Jacket Heating									
VT 6060 M	53L	14.6 × 16.3 × 13.6" (37.1 × 41.5 × 34.5cm)	22.4 × 29.3 × 22.7" (57 × 74.4 × 57.6cm)	540 Wh/h	120V 60Hz	2 supplied, 4 max.	51014540	**51-014-540**	9790.00
VT 6130 M	128L	20.8 × 19.5 × 19.3" (52.9 × 49.5 × 48.9cm)	29.5 × 35.2 × 28.3" (75 × 89.5 × 72cm)	870 Wh/h	208/240V 60Hz	3 supplied, 5 max.	51023262	**51-023-262**	14,940.00
Compact									
VT 6025	25L	12.1 × 11.8 × 10.8" (30.7 × 30 × 27.5cm)	17.7 × 18.9 × 23.6" (45 × 48 × 60cm)	340 Wh/h	120V 60Hz	2 supplied, 4 max.	51014551	**51-014-551**	5880.00
Shelf Heating									
VT 6060 P w/Digicon multi-channel controller	53L	14.6 × 16.3 × 13.6" (37.1 × 41.5 × 34.5cm)	22.4 × 29.3 × 22.7" (57 × 74.4 × 57.6cm)	450 Wh/h	120V 60Hz	2 supplied, 3 max.	51023263	**51-023-263**	15,970.00
VT 6130 P w/Digicon multi-channel controller	128L	20.8 × 19.5 × 19.3" (52.9 × 49.5 × 48.9cm)	29.5 × 35.2 ' 28.3" (75 × 89.5 × 72cm)	880 Wh/h	208/240V 60Hz	3 supplied, 3 max.	51023264	**51-023-264**	23,700.00

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PCR

Thermal Cyclers

Thermo Scientific™ Piko™ Thermal Cycler

High performance in a compact package

14-230-250

- Superior thermal performance: Consistent results from well-to-well due to extremely short setting times and high temperature uniformity across the block
- Time savings: PCR in as little as 15 minutes enabled by fast ramp rates and quick settling times
- Reagent savings: Repeatable yields from as little as 2µL when using UTW vessels and heat sealers
- Space savings: One of the smallest footprints available, fits into a tiny bench space
- Energy savings: Short protocols and low wattage requires only one-fourth of the power consumption of typical thermal cyclers
- Repeatable sealing prevents sample evaporation: Automatic heated lid provides consistent and tight sealing from run-to-run
- Purchase of this instrument conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields other than human *in vitro* diagnostics under Canadian Patent 1,339,653 owned by Applied Biosystems.

Description	Mfr. No.	Cat. No.	Each
Piko Thermal Cycler, 24-well	TCP0024	**14-230-249**	5040.00
Piko Thermal Cycler, 96-well	TCP0096	**14-230-250**	6170.00

Thermo Scientific™ Arktik™ Thermal Cycler

For individual reactions to high-throughput applications

142-30-251 and 14-230-254

- Interchangeable blocks with excellent thermal precision
- Dual 48-well block for multi-user option
- Broad (up to 30°C) and accurate temperature gradient
- Reliable and easy to use with low noise level
- Over-tightening protection system in the heated lid
- Accepts almost all standard PCR plastics

ORDERING INFORMATION:
Purchase of a heat block is required for operation of the Arktik thermal cycler. Purchase of this instrument conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields other than human in vitro diagnostics under Canadian Patent 1,339,653 owned by Applied Biosystems.

Description	Mfr. No.	Cat. No.	Each
Arktik base unit without gradient	TCA0002	**14-230-251**	3250.00
96-well block only	TCA0096	**14-230-252**	1295.00
384-well block only	TCA0384	**14-230-253**	1360.00
Dual block only (2 x 48 wells)	TCA4848	**14-230-254**	1625.00

Eppendorf™ Mastercycler™ pro PCR System

Proprietary vapo.protect™ technology reduces evaporation to a minimum, improving reproducibility and specificity

Key Features

- Gradient function simplifies protocol optimization
- Cyclers can be used in three configurations: stand-alone system, mini-satellite systems or a PC-controlled network
- Heated lid with integrated Thermal Sample Protection (TSP) technology
- Intuitive graphic programming
- SteadySlope™ technology ensures constant heating and cooling rates
- Extremely fast heating/cooling rates
- Gradient blocks with SteadySlope technology; intuitive graphic programming
- Heated lid with integrated Thermal Sample Protection (TSP) technology
- Use as stand-alone devices, mini satellite systems or a PC-controlled network

Mastercycler pro Gradient

- Freely programmable temperature gradient over 12 rows
- Gradient range of up to 20°C
- Robust, specially coated aluminum block

Mastercycler pro Gradient S

- Highest temperature control speed due to silver block: up to 8°C/sec. with impulse feature
- Freely programmable temperature gradient over 12 rows

E950030010, E950030020, E950030030, E950030050

- Gradient range of up to 24°C
- Optimized tube fit for fastest heat transition

Mastercycler pro 384

- Freely programmable temperature gradient over 24 rows
- Gradient range of up to 20°C

WARRANTY: Two years

Description	Mfr. No.	Cat. No.	Each
Individual Mastercycler pro Modules			
Mastercycler pro	950030010	**E950030010**	10,466.01
Mastercycler pro S	950030020	**E950030020**	11,628.07
Mastercycler pro Gradient 384	950030030	**E950030030**	11,191.68
Mastercycler pro Control Panel	950030050	**E950030050**	2711.49

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

Eppendorf™ Mastercycler™ pro Self-test USB Key

Required for self-test function of Mastercycler pro thermal cyclers

E950030040

- Provides the ability to test the functionality of all six Peltier elements and provides corresponding certificate
- Allows user to document the homogeneity of the thermal cycler between regular testing intervals

Description	Mfr. No.	Cat. No.	Each
Self-test USB Key	950030040	**E950030040**	373.24

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Real-Time PCR

Thermo Scientific™ PikoReal™ Real-Time PCR System

Excellent qPCR performance in a tiny box

Superior thermal performance

The unique block design (patent pending) of PikoReal system combined with precise temperature control brings confidence to your qPCR. The superior thermal performance ensures that your quantification results are reliable and reproducible. Five optical channels facilitate multiplexing.

PikoReal Real-Time PCR System

Stand-alone or PC control

PikoReal qPCR system is controlled by PikoReal software, which allows you to remotely monitor any qPCR experiment on-line from your own computer. Alternatively, you can save the qPCR protocol on a USB stick and load it on to the PikoReal instrument for stand-alone use. PikoReal software include modules for absolute and relative quantification, melting curve analysis, allelic discrimination and High Resolution Melting (HRM). Advanced algorithms provide effortless data normalization without the need for an external reference dye.

Reduced plastic and reagent consumption

The unique design of the heating block and the small plate format allow significant savings both in plastics and reagent consumption. This reduces costs of your research and produces less plastic waste.

Description	Mfr. No.	Cat. No.	Each
PikoReal 24 Real-Time PCR System	TCR0024	**TCR0024**	19,250.00
PikoReal 96 Real-Time PCR System	TCR0096	**TCR0096**	22,300.00

Reagents and Kits

Routine PCR

Thermo Scientific™ DreamTaq™ DNA Polymerase

An enhanced Taq DNA polymerase optimized for all standard PCR applications ensuring higher sensitivity, longer PCR products and higher yields

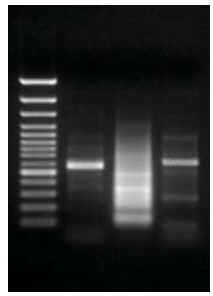
It uses the same reaction set-up and cycling conditions as conventional Taq DNA polymerase. Extensive optimization of reaction conditions is not required. It is supplied with optimized DreamTaq buffer, which includes 20 mM $MgCl_2$. It generates PCR products with 3'-dA overhangs. It does not incorporate dUTP.

- Robust amplification with minimal optimization
- High yields of PCR products
- Higher sensitivity compared to conventional Taq DNA polymerase
- Amplification of long targets up to 6kb from genomic DNA and up to 20kb from viral DNA
- Generates 3'-dA overhangs
- Incorporates modified nucleotides

Quantity	Mfr. No.	Cat. No.	Each
500U (5U/µL)	EP0702	**FEREP0702**	62.60
5 × 500U (5U/µL)	EP0703	**FEREP0703**	267.00
4000 × 250µL rxns	EP0705	**FEREP0705**	471.00

Thermo Scientific™ DreamTaq™ Green DNA Polymerase

An enhanced Taq DNA polymerase supplied with colored buffer enabling direct gel loading and significant time savings, optimized for all standard PCR applications



FERK0181

It ensures higher sensitivity, longer PCR products and higher yields compared to conventional Taq DNA polymerase. DreamTaq generates PCR products with 3'-dA overhangs and does not incorporate dUTP. The 10X DreamTaq Green Buffer includes a density reagent and two tracking dyes for direct loading of PCR products on a gel. The colored buffer does not interfere with PCR performance and is compatible with downstream applications such as DNA sequencing, ligation and restriction digestion. For applications that require PCR product analysis by absorbance or fluorescence excitation, we recommend using the colorless 10X DreamTaq Buffer (#B65) or purifying the PCR product prior to analysis. The 10X DreamTaq Green Buffer is optimized for robust performance in PCR and includes $MgCl_2$ at a concentration of 20 mM.

- Save time — go directly from PCR to gel electrophoresis
- High yields of PCR products with minimal optimization
- Higher sensitivity compared to conventional Taq DNA polymerase
- Amplification of long targets up to 6kb from genomic DNA and up to 20kb from viral DNA
- Robust amplification of difficult templates

Quantity	Mfr. No.	Cat. No.	Each
Enzyme			
500U	EP0712	**FEREP0712**	66.00
5 × 500U	EP0713	**FEREP0713**	278.00
Master Mix (2X)			
4 x 1.25mL (for 200 reactions of 50 µL)	K1081	**FERK1081**	95.10
20 x 1.25mL (for 1000 reactions of 50 µL)	K1082	**FERK1082**	437.00

Thermo Scientific™ Taq™ DNA Polymerase, Recombinant

Highly thermostable DNA polymerase for routine PCR

The enzyme catalyzes 5'=>3' synthesis of DNA, has no detectable 3'=>5' exonuclease activity and possesses low 5'=>3' exonuclease activity. In addition, Taqs DNA Polymerase exhibits deoxynucleotidyl transferase activity, which frequently results in the addition of extra adenines at the 3'-end of PCR products. Recombinant Taqs DNA Polymerase is ideal for standard PCR of templates 5kb or shorter.

- Thermostable — half life is more than 40 min. at 95°C
- Generates PCR products with 3'-dA overhangs
- Supplied with two buffers — 10X Taq Buffer with KCl and 10X Taq Buffer with $(NH_4)_2SOH_4$
- The latter allows for PCR at wide range of magnesium concentrations and decreases unspecific priming
- Incorporates modified nucleotides (e.g., biotin-, digoxigenin-, fluorescently-labeled nucleotides)

Quantity	Mfr. No.	Cat. No.	Each
500U (5u/µL)	EP0402	**FEREP0402**	105.70
500U (1u/µL)	EP0404	**FEREP0404**	105.70
5 × 500U (5u/µL)	EP0405	**FEREP0405**	397.00
10 × 500U (5u/µL)	EP0406	**FEREP0406**	707.50

5 PRIME™ MasterMix™ PCR Mix

Ready-to-use mix improves PCR yields

- Offers easy reaction setup and high reproducibility for large sample series
- Ideal for high throughput or high-yield PCR and amplification of contaminated templates
- Supplied as 2.5X (0.06U/µL) concentrate; simply add primers and template
- Ideal for PCR automation
- Storage and Reaction Buffers: Taq DNA Polymerase (0.06U/µL), 2.5X Taq reaction buffer (with 125mM KCl, 75mM Tris-HCl [pH 8.4]), 4mM Mg2+, 0.25% Nonidet-P40™, 500µM each of dNTP, stabilizers

No. of Rxns	Mfr. No.	Cat. No.	Each
100	2200100	**FP2200100**	67.80
1000	2200110	**FP2200110**	572.52

5 PRIME™ Taq DNA Polymerase

Ensures the utmost purity, reproducibility and processivity

- Ultrapure, thermostable recombinant DNA Polymerase encoded by a modified gene from Thermus aquaticus YT1 and expressed in *E. coli.* DH1; the enzyme provides thermostability that meets the requirements of specialized PCR applications
- The enzyme's activity is not significantly influenced by initial exposure for even 20 min. at 95°C before starting the PCR reaction
- Licensed for PCR
- Packaged with Reaction Buffer (10X) and $Mg(OAc)_2$ Solution (25mM) in individual tubes Storage and Dilution Buffer: 20mM Tris-HCl pH 8.0 (at 25°C), 100mM NaCl, 0.1mM EDTA, 1mM DTT, 50% glycerol and 0.5% Tween™ 20
- Reaction Buffer: 10X Reaction buffer with $Mg(OAc)_2$: 500mM KCl, 100mM Tris-HCl pH 8.3 (at 25°C), 15mM $Mg(OAc)_2$, 1% Triton™ X 100
- Unit Definition: One unit is defined as the amount of enzyme that incorporates 10nmol of dNTPs into acid-insoluble form within 30 min. at 74°C under the assay conditions, using reaction conditions: 25mM TAPS (N-tris-(hydroxymethyl)-methyl-3-amino-propanesulfonic acid, sodium salt) pH 9.3 (at 25°C); 50mM KCl; 2mM Mg(OAc)2; 1mM ß-mercaptoethanol; 200µmol each dATP, dGTP, dTTP; 100µM dCTP (a mix of unlabeled and [α-^{32}P]-labeled); 12.5µg activated salmon sperm DNA in a final volume of 50µL
- Associated Activities: Endonuclease and exonuclease activities were not detectable after 1 or 2 hours' incubation, respectively, of 1µg lambda DNA and 0.22µg of EcoRI-digested lambda DNA at 72°C in the presence of 15 to 20 units of 5 PRIME Taq DNA Polymerase

Quantity	Concentration	Mfr. No.	Cat. No.	Each
100U	5U/µL	2200000	**FP2200000**	46.25
250U	5U/µL	2200010	**FP2200010**	99.60
1000U	5U/µL	2200020	**FP2200020**	323.50
5 × 1000U	5U/µL	2200030	**FP2200030**	1561.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

5 PRIME™ PerfectTaq DNA Polymerase

For robust performance and high yields in a wide range of PCR applications with minimal optimization

- Combines PerfectTaq DNA Polymerase and a unique PCR buffer to promote specific primer-template annealing, which leads to maximum yields of specific products even when using low amounts of starting material
- Offers high specificity and sensitivity
- Saves time by using one standardized protocol which has been proven to work for a wide variety of primer-template systems
- Ideal for efficient and robust standard end-point PCR applications without optimization

Quantity	Concentration	Mfr. No.	Cat. No.	Each
250U (200 × 50µL rxns)	5U/µL	2200050	**FP2200060**	58.70
1000U (800 × 50µL rxns)	5U/µL	2200070	**FP2200070**	195.70

Promega™ GoTaq™ Master Mixes

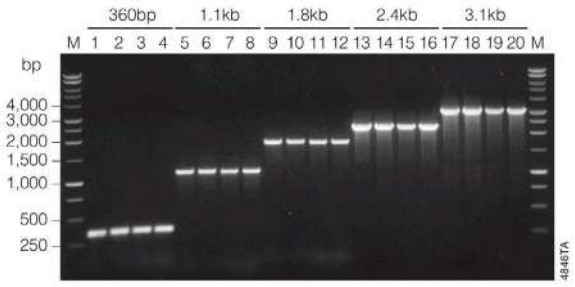
Save time during reaction setup and PCR product analysis

- Premixed, ready-to-use solution contain GoTaq DNA polymerase, dNTPs, $MgCl_2$ and reaction buffers in a single tube
- Utilize an optimized enzyme and buffer formulation that offers amplification typically better than standard Taq DNA polymerases
- Can be directly substituted into existing PCR protocols without the need to change cycling parameters
- Serve as a gel loading solution, so PCR products may be directly loaded onto agarose gels
- GoTaq Green Master Mix contains a blue dye and a yellow dye that allow the monitoring of progress during electrophoresis

Description	Quantity	Conc.	Mfr. No.	Cat. No.	Each
GoTaq Green Master Mix	100 rxns	2X	M7122	**PR-M7122**	45.10
	1000 rxns	2X	M7123	**PR-M7123**	394.33
GoTaq Colorless Master Mix	100 rxns	2X	M7132	**PR-M7132**	45.10
	1000 rxns	2X	M7133	**PR-M7133**	394.33

Promega™ GoTaq™ Flexi DNA Polymerase

Combines robust amplification, streamlined downstream analysis and the flexibility to optimize Mg^{2+} concentration



- Offers robust amplification equal to — and in some cases superior to — conventional Taq DNA polymerase
- Suitable for PCR, two-step RT-PCR and T-vector cloning
- Utilizes a separate $MgCl_2$ solution to allow for optimization of magnesium concentration
- Samples can be loaded directly onto a gel after amplification
- Unit Definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10nmol of dNTP into acid-insoluble material in 30 minutes at 74°C. The reaction conditions are 50mM Tris-HCl (pH 9.0 at 25°C), 50mM NaCl, 5mM MgCl2, 200µM each of dATP, dCTP, dGTP, dTTP (a mix of unlabeled and [3H]dTTP), 10µg activated calf thymus DNA and 0.1mg/mL BSA in a final volume of 50µL.

Quantity	Concentration	Mfr. No.	Cat. No.	Each
100U	5U/µL	M8291	**PR-M8291**	33.56
500U	5U/µL	M8295	**PR-M8295**	146.83
5 × 500U	5U/µL	M8296	**PR-M8296**	650.23
10 × 500U	5U/µL	M8297	**PR-M8297**	949.12
20 × 500U	5U/µL	M8298	**PR-M8298**	1264.79

Promega™ GoTaq™ DNA Polymerase

Provide robust amplification and streamlined analysis of PCR products, flexibility to optimize Mg^{2+} concentration, save time during reaction setup and PCR product analysis

- Offer robust amplification equal to — and in some cases superior to — conventional Taq DNA polymerase
- Suitable for PCR, two-step RT-PCR and T-vector cloning
- Samples can be loaded directly onto a gel after amplification
- Compatible with PCR enhancers such as betaine and DMSO
- Premixed, ready-to-use solutions contain GoTaq DNA polymerase, dNTPs, $MgCl_2$ and reaction buffers in a single tube
- Utilize an optimized enzyme and buffer formulation that offers amplification typically better than standard Taq DNA polymerases
- Can be directly substituted into existing PCR protocols without the need to change cycling parameters
- GoTaq Green Master Mix contains a blue dye and a yellow dye that allow the monitoring of progress during electrophoresis
- Utilize a separate $MgCl_2$ solution to allow for optimization of magnesium concentration
- Unit Definition: One unit is defined as the amount of enzyme required to catalyze the incorporation of 10nmol of dNTP into acid-insoluble material in 30 minutes at 74°C. The reaction conditions are 50mM Tris-HCl (pH 9.0 at 25°C), 50mM NaCl, 5mM MgCl2, 200µM each of dATP, dCTP, dGTP, dTTP (a mix of unlabeled and [3H]dTTP), 10µg activated calf thymus DNA and 0.1mg/mL BSA in a final volume of 50µL

Size	Mfr. No.	Cat. No.	Each
100U	M3001	**PR-M3001**	33.56
500U	M3005	**PR-M3005**	146.83
2500U	M3008	**PR-M3008**	650.23

Promega™ PCR Master Mix

Ready-to-use premix permits setup of PCR reactions in less than a minute

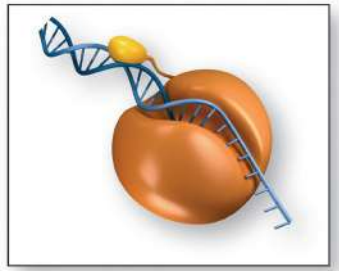
- Contains Taq DNA Polymerase, dNTPs, $MgCl_2$ and reaction buffers at optimal concentrations
- Optimized for use in routine PCR with templates in the range of 0.2 to 2kb
- Amplifies as little as two copies of target template
- Scalable for 10, 25 or 50µL reactions

Quantity	Concentration	Mfr. No.	Cat. No.	Each
250µL (10 × 50µL rxns)	2X	M7501	**PR-M7501**	10.49
Ea. (100 × 50µL rxns)	2X	M7502	**PRM7502**	89.14
25mL (1000 × 50µL rxns)	2X	M7505	**PR-M7505**	694.27

Hot-Start PCR

Thermo Scientific™ Phire™ HotStart™ II DNA Polymerase

A novel hot start DNA polymerase for routine and high throughput PCR applications requiring speed and specifity



F-122S

Significantly faster, extremely robust and also capable of amplifying long DNA fragments with high yields. These features are achieved through advanced protein engineering of the polymerase. It incorporates a unique double-stranded DNA binding domain which allows short extension times (10 to 15 s/kb), improves yields and increases fidelity 2-fold compared to Taq DNA polymerase.

The hot start modification of Phire Hot Start II DNA Polymerase is based on the same Affibody inactivation technology utilized by Phusion Hot Start II DNA Polymerase. This technology increases the specificity of the PCR reaction with no additional time required for initial activation of the enzyme.

New Phire Green format is a combination of Phire Hot Start II DNA Polymerase and 5X Phire Green Buffer. The buffer includes a density reagent and tracking dyes for direct loading of PCR products on a gel. The colored buffer does not interfere with enzyme performance and is compatible with downstream applications such as DNA sequencing, ligation and restriction digestion.

- Quick hot start — No reactivation step
- Fast enzyme — Amplify four to five times faster than with hot start Taq
- Robust — Minimal reaction optimization due to high inhibitor tolerance
- High yields — Abundant products due to high efficiency
- Longer PCR products — Amplify significantly longer DNA fragments than with any hot start Taq
- Direct loading on gel with Green Buffer

Description	Mfr. No.	Cat. No.	Each
Phire Hot Start II DNA Polymerase	F-122S	**F-122S**	140.00
Phire Hot Start II DNA Polymerase	F-122L	**F-122L**	580.00

Thermo Scientific™ Maxima™ HotStart™ Taq DNA Polymerase

Hot start DNA polymerase designed to enhance the specificity, sensitivity and yield of DNA amplification

In addition, the enzyme provides the convenience of reaction set-up at room temperature. Maxima Hot Start Taq DNA Polymerase is a recombinant Taq DNA polymerase which has been chemically modified by the addition of heat-labile blocking groups to its amino acid residues. The enzyme is inactive at room temperature, avoiding extension of non-specifically annealed primers or primer dimers and providing higher specificity of DNA amplification. The functional activity of the enzyme is restored during a short 4-minute incubation at 95°C.
The activated enzyme maintains the same functionality as Taq DNA polymerase: catalyzes 5'=>3' synthesis of DNA, has no detectable 3'=>5' proofreading exonuclease activity, but possesses low 5'=>3' exonuclease activity. It exhibits deoxynucleotidyl transferase activity, which frequently results in the addition of extra adenines at the 3'-end of PCR products. Before activation, the two activities are not detectable.

- High yield amplification of complex templates
- High PCR specificity — reduced effects of mispriming and primer-dimer formation
- Enhanced PCR sensitivity
- Generates PCR products with 3'-dA overhangs

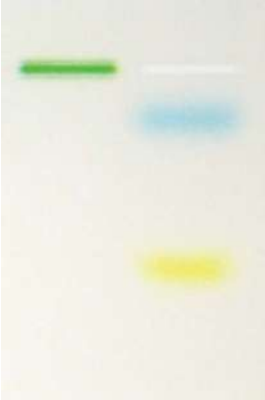
Quantity	Mfr. No.	Cat. No.	Each
Polymerase			
100U	EP0601	**FEREP0601**	57.20
100U	EP0602	**FEREP0602**	225.00
1000U	EP0603	**FEREP0603**	1014.00
Master Mix (2X)			
2 × 1.25mL (for 100 reactions of 50 µl)	K1051	**FERK1051**	83.00
10 × 1.25mL (for 500 reactions of 50 µl)	K1052	**FERK1052**	337.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Maxima™ HotStart™ Green PCR Master Mix

Ready-to-use 2x hot start master mix containing tracking dyes and a density reagent for direct loading on gel after PCR



FERK1061

The master mix is supplemented with two tracking dyes and a density reagent that allows for direct loading of PCR products on a gel. The dyes in the master mix do not interfere with PCR performance and are compatible with downstream applications such as DNA sequencing, ligation and restriction digestion. The master mix retains all features of Maxima Hot Start Taq DNA Polymerase. It is capable of amplification of up to 3kb from genomic DNA. For applications that require PCR product analysis by absorbance or fluorescence excitation, we recommend using the colorless Maxima HotStart PCR Master Mix (2X) (K0151).

- Convenient — Maxima HotStart Taq DNA Polymerase in a ready-to-use mix
- Hot start PCR — reaction set-up at room temperature
- Four minute activation time
- Direct loading of PCR product on gels
- Highs specificity and sensitivity of PCR

Quantity	Mfr. No.	Cat. No.	Each
2 × 1.25mL (for 100 reactions of 50 µl)	K1061	**FERK1061**	83.00
10 × 1.25mL (for 500 reactions of 50 µl)	K1062	**FERK1062**	336.00

5 PRIME™ HotMaster™ Taq Polymerase

Provides increased convenience, sensitivity, specificity, flexibility and efficiency through an innovative Hot Start technology

Licensed for PCR use

- Uses a recombinant and modified form of the Thermus aquaticus YT1 DNA Polymerase Gene expressed in *E. coli* DH 1
- Does not require the long, high-temperature preincubations associated with other Hot Start systems
- Enables both Hot Start activity during the entire PCR and Cold Stop™ activity at temperatures below 60°C during the annealing step of every PCR cycle due to a temperature-dependent inhibitor that binds the polymerase
- Eliminates the need to optimize for Mg^{2+} concentration by using a reaction buffer that weakly chelates the ion, so it can be released as needed for the reaction

Amplifies fragments up to 5kb

- Unit Definition: One unit is defined as the amount of enzyme that incorporates 10nmoles of dNTPs into acid-insoluble form within 30 min. at 74°C under the assay conditions, using reaction conditions: 25mM TAPS (N-tris-(hydroxymethyl)-methyl-3-amino-propanesulfonic acid, sodium salt) pH 9.3 (at 25°C); 50mM KCl; 2mM MgCl2; 1mM ß-mercaptoethanol; 200µmol each dATP, dGTP, dTTP; 100µM dCTP (a mix of unlabeled and [α-^{32}P]-labeled); 12.5µg activated salmon sperm DNA in a final volume of 50µL
- Associated Activities: No endonuclease or exonuclease activity was detected after a 14 to 16 hour incubation at 37°C of the polymerase with lambda/Hind III fragments and purified plasmid DNA

Quantity	Concentration	Mfr. No.	Cat. No.	Each
100U	5U/µL	2200320	**FP2200300**	55.30
250U	5U/µL	2200310	**FP2200310**	118.30
1000U	5U/µL	2200330	**FP2200320**	420.00
5000U	5U/µL	2200300	**FP2200330**	1900.00

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Promega™ GoTaq™ Hot Start Polymerase

Combines the robust amplification and sensitivity of GoTaq DNA Polymerase with hot-start technology to deliver even greater specificity

- Proprietary antibody bound to the polymerase blocks polymerase activity and permits room-temperature setup, but only requires a two-minute activation at 94° to 95°C
- GoTaq Flexi Reaction Buffers contain a compound that increases sample density and serves as both reaction buffer and gel-loading solution, saving time in post-PCR anaylsis
- Colorless GoTaq Flexi Buffer is used when direct fluorescence or absorbance readings are required without prior purification of the DNA from the amplification reaction
- Green GoTaq Flexi Buffer contains two dyes that separate during electrophoresis to facilitate direct-to-gel analysis of PCR products
- Enzyme exhibits 5' to 3' exonuclease activity

Quantity	Concentration	Mfr. No.	Cat. No.	Each
GoTaq Hot Start Polymerase, 5X				
100U	5U/µL	M5001	**PR-M5001**	71.32
500U	5U/µL	M5005	**PR-M5005**	320.92
2500U	5U/µL	M5006	**PR-M5006**	1443.08
10,000U	5U/µL	M5008	**PR-M5008**	5255.29
GoTaq Hot Start Green Master Mix, 2X				
100 rxns	5U/µL	M5122	**PR-M5122**	99.63
1000 rxns	5U/µL	M5123	**PR-M5123**	792.86
GoTaq Hot Start Colorless Master Mix, 2X				
100 rxns	5U/µL	M5132	**PR-M5132**	99.63
1000 rxns	5U/µL	M5133	**PR-M5133**	792.86

High-Fidelity/High-Yield PCR

Thermo Scientific™ Phusion™ High-Fidelity DNA Polymerase

The most accurate thermostable DNA Polymerase available offering superior performance for cloning and other applications requiring high fidelity

F-530S

Incorporating a unique dsDNA-binding domain, Phusion DNA Polymerase amplifies DNA with accuracy and speed unattainable with standard PCR enzymes. Featuring an error rate 50-fold lower than that of Taq, and 6-fold lower than that of Pfu, Phusion DNA Polymerase is the most accurate thermostable polymerase available. The unique structure of the enzyme enables short protocol times, abundant yields and robust performance, even in the presence of PCR inhibitors. For the researcher, that translates to ease-of-use and convenience. In addition, Phusion DNA Polymerases also produce higher yields with lower enzyme amounts than other DNA polymerases.

- Extreme fidelity (error rate 4.4×10^{-7} in Phusion HF Buffer)
- Speed of the polymerase allows short extension times (15-30 s/kb)
- Robust reaction, minimal optimization needed
- Increased product yields with minimal enzyme amounts
- Direct loading on gel with Green Buffer

Quantity	Mfr. No.	Cat. No.	Each
100U (2U/µL)	F-530S	**F-530S**	107.60
500U (2U/µL)	F-530L	**F-530L**	433.00

Thermo Scientific™ Phusion™ Hot Start II High-Fidelity DNA Polymerase

The most accurate hot start DNA polymerase on the market featuring extreme specificity and improved performance

F-549S

Phusion Hot Start II High Fidelity DNA Polymerase combines the Phusion DNA Polymerase and a reversibly bound, specific Affibody ligand. Affibody inhibits the DNA polymerase activity at room temperature and thus prevents the amplification of nonspecific products.

The Affibody ligand also inhibits the 3'→5' exonuclease activity of the polymerase, preventing degradation of primers and template DNA during reaction set up. At polymerization temperatures, the ligand is released, rendering the polymerase fully active. Phusion Hot Start II DNA Polymerase does not require a separate activation step in the PCR protocol as it is immediately reactivated at high temperatures.

Quantity	Description	Mfr. No.	Cat. No.	Each
100U (2U/µL)	Phusion Hot Start II High-Fidelity DNA Polymerase 100U (2U/µL)	F-549S	**F-549S**	134.30
500U (2U/µL)	Phusion Hot Start II High-Fidelity DNA Polymerase 500U (2U/µL)	F-549L	**F-549L**	536.00

Thermo Scientific™ Phusion™ High-Fidelity DNA Polymerase

The most accurate thermostable DNA Polymerase available, offering superior performance for cloning and other applications requiring high fidelity

Phusion High-Fidelity PCR Master Mix with HF Buffer and Phusion High-Fidelity PCR Master Mix with GC Buffer are convenient 2x mixes containing Phusion DNA Polymerase, nucleotides and optimized HF (F-531S, F-531L) or GC (F-532S, F-532L) reaction buffer including $MgCl_2$. Only template and primers need to be added by the user.

- High fidelity (error rate 4.4×10^{-7} in Phusion HF Buffer)
- Speed of the polymerase allows short extension times (15-30 s/kb)
- Robust reactions, minimal optimization needed
- Increased product yields with minimal enzyme amounts

Description	Buffer	Mfr. No.	Cat. No.	Each
100 Rxns	HF	F-531S	**F-531S**	178.70
500 Rxns	HF	F-531L	**F-531L**	715.00
100 Rxns	GC	F-532S	**F-532S**	178.70
500 Rxns	GC	F-532L	**F-532L**	715.00

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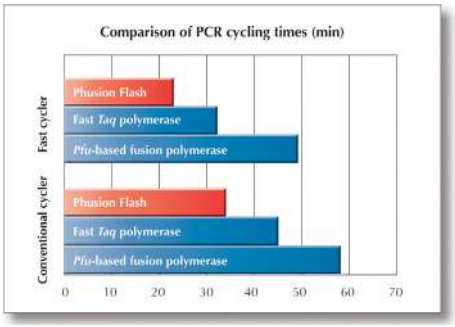
Thermo Scientific™ Phusion™ Flash High-Fidelity PCR Master Mix

Master mix for fast, high-fidelity PCR with excellent yields



F-548S

Phusion Flash High-Fidelity PCR Master Mix is a 2x master mix enabling the use of highly short PCR protocols without compromising either the fidelity or the yield in the reaction. The master mix utilizes Phusion Flash II DNA Polymerase, a proofreading DNA polymerase modified from Phusion Hot Start II High-Fidelity DNA Polymerase.

Quantity	Mfr. No.	Cat. No.	Each
100 Rxns	F-548S	**F-548S**	84.40
500 Rxns	F-548L	**F-548L**	334.50

Thermo Scientific™ Phusion™ High-Fidelity PCR Kit

The most accurate thermostable DNA polymerase available offering superior performance for cloning and other applications requiring high fidelity

Incorporating a unique dsDNA-binding domain, Phusion DNA Polymerase amplifies DNA with accuracy and speed unattainable with standard PCR enzymes, even on the most difficult templates. The features of Phusion DNA Polymerase make it an ideal choice for cloning and other challenging applications. The Phusion PCR Kit is a convenient format that includes PCR buffer, $MgCl^2$, dNTPs, DMSO and control template and primers.

Quantity	Mfr. No.	Cat. No.	Each
50 × 50µL Rxns (125 × 20µL Rxns)	F-553S	**F-553S**	71.80
200 × 50µL Rxns (500 × 20µL Rxns)	F-553L	**F-553L**	244.50

5 PRIME™ MasterTaq™ Kits

Specially developed to improve the amplification of difficult templates by stabilizing the enzyme during the reaction procedure

FP200000 Series

- Ensures improved yield of PCR products
- Improved results with impure templates
- Reliable results for GC-rich templates
- Source: Recombinant and modified form of the Thermus aquaticus YT1 DNA Polymerase gene expressed in *E. coli* DH 1
- Unit Definition: One unit is defined as the amount of enzyme that incorporates 10nmol of dNTPs into acid-insoluble form within 30 min. at 74°C under the following conditions: 25mM TAPS (N-tris-(hydroxymethyl)-methyl-3-amino-propanesulfonic acid, sodium salt) pH 9.3 (at 25°C); 50mM KCl; 2mM Mg2+; 1mM ß-mercaptoethanol; 200µmol each dATP, dGTP, dTTP; 100µM dCTP (a mix of unlabeled and [α-^{32}P]-labeled); 12.5µg activated salmon sperm DNA in a final volume of 50µL.
- Associated Activities: Endonuclease and exonuclease activities were not detectable after one or two hours' incubation, respectively, of 1µg lambda DNA and 0.22µg of EcoRI-digested lambda DNA at 72°C in the presence of 15–20 units of 5 PRIME Taq DNA Polymerase Storage and Dilution Buffer: 20mM Tris-HCl pH 8.0 (at 25°C), 100mM KCl, 0.1mM EDTA, 1mM DTT, 50% glycerol, 0.5% Tween™ 20
- Reaction Buffer: 10X Reaction Buffer with magnesium: 500mM KCl, 100mM Tris-HCl pH 8.3 (at 25°C), 15mM Mg2+TaqMaster (5Ã—PCR Enhancer), 5 PRIME Taq DNA Polymerase, reaction buffer (10X), 25mM Mg(OAc)2 solution

Quantity	Concentration	Mfr. No.	Cat. No.	Each
250U	5U/µL	2200210	**FP2200210**	106.40
500U	5U/µL	2200220	**FP2200220**	222.48
1000U	5U/µL	2200230	**FP2200230**	375.00

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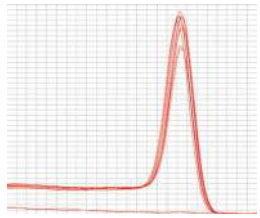
QPCR

Thermo Scientific™ Maxima™ SYBR™ Green qPCR Master Mixes

Ready-to-use qPCR master mixes optimized for SYBR Green chemistry using standard cycling protocols



FERK0251

The master mix includes Maxima Hot Start™ Taq DNA polymerase, SYBR Green I dye and dNTPs in an optimized PCR buffer. ROX Solution is provided in a separate vial for use with machines that require ROX as a passive reference dye. Maxima Hot Start Taq DNA polymerase in combination with the optimized buffer ensures PCR specificity and sensitivity. The SYBR Green I intercalating dye allows for DNA detection and analysis without using sequence-specific probes. dUTP is included in the mix for optional carryover contamination control using uracil-DNA glycosylase (UDG). The use of Maxima SYBR Green qPCR Master Mix in real-time PCR ensures reproducible, sensitive and specific quantification of genomic, plasmid, viral and cDNA templates.

- Specificity — Maxima Hot Start Taq DNA Polymerase and the optimized buffer eliminate non-specific amplification and formation of primer dimers
- Sensitivity — detects low copy number targets
- ROX Solution provided in a separate tube
- Wide linear range — accurate quantification across 9 orders of magnitude
- Universal — can be used on most real-time PCR instruments
- Reproducibility and convenience — ready-to-use 2X master mix

APPLICATIONS:
Real-time PCR and RT-qPCR using SYBR Green dye on most real-time PCR machines.

Quantity	Mfr. No.	Cat. No.	Each
With ROX			
2 × 1.25mL (for 200 reactions of 25µL)	K0221	**FERK0221**	153.00
10 × 1.25mL (for 1000 reactions of 25µL)	K0222	**FERK0222**	649.00
4 × 12.5mL (for 4000 reactions of 25µL)	K0223	**FERK0223**	1819.00
ROX Provided			
2 × 1.25mL (for 200 reactions of 25µL)	K0251	**FERK0251**	153.50
10 × 1.25mL (for 1000 reactions of 25µL)	K0252	**FERK0252**	649.00
4 × 12.5mL (for 4000 react. of 25µL)	K0253	**FERK0253**	1819.00

Thermo Scientific™ DyNAmo™ SYBR™ Green qPCR Kits

qPCR master mixes containing a modified *Thermus brockianus* DNA polymerase and all the other reagents needed for qPCR

DyNAmo SYBR Green qPCR Kit is a ready-to-use 2x master mix for sensitive, quantitative real-time PCR. Only template DNA and PCR primers need to be added by the user.

- Sensitivity: Optimized 2x master mix allows reproducible detection of low-copy number templates
- Speed: More efficient amplification coupled with increased polymerase processivity results in earlier Cq's and shorter overall qPCR reaction times
- Convenience: 2x master mix, one tube only
- Broad dynamic range: DyNAmo SYBR Green qPCR Kit detects as few as one copy of the target gene and achieves a dynamic range of up to eight orders of magnitude
- Available with ROX passive reference dye (F-400RS and F-400RL)

STORAGE:
The recommended storage temperature is +4°C or -20°C. Stable for six months at +4°C or one year at -20°C from the packaging date.

INCLUDES:
DyNAmo SYBR Green qPCR Kit: 2x Master Mix (containing modified Thermus brockianus DNA Polymerase, SYBR Green I dye, optimized PCR buffer, 5mM $MgCl_2$, dNTP mix including dUTP)

DyNAmo SYBR Green qPCR Kit with ROX Passive reference dye: 2x Master Mix (containing modified *Thermus brockianus* DNA Polymerase, SYBR Green I dye, optimized PCR buffer, 5mM $MgCl_2$, dNTP mix including dUTP), 50x ROX™ passive reference dye

Quantity	Mfr. No.	Cat. No.	Each
200 × 50µL Rxns (500 × 20µL Rxns)	F-400L	**F-400L**	288.00
200 × 50µL Rxns (500 × 20µL Rxns)	F-400RL	**F-400RL**	288.00

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Prices subject to change.

Thermo Scientific™ DyNAmo™ HS SYBR™ Green qPCR Kit

Ready-to-use 2X master mix for sensitive, quantitative real-time PCR

DyNAmo HS SYBR Green qPCR Kit contains all the reagents needed for qPCR. Only template DNA and PCR primers need to be added by the user. The 2x master mix includes a hot start version of a modified *Thermus brockianus* DNA polymerase. The modified DNA polymerase incorporates a non-specific DNA-binding domain that lends physical stability to the polymerase-DNA complex.

- Specificity: DyNAmo HS SYBR Green master mix minimizes the formation of unwanted primer-dimers and extension of non-specifically bound primers during reaction setup
- Sensitivity: Optimized master mix allows reproducible detection of low-copy number templates
- Broad dynamic range: DyNAmo HS SYBR Green qPCR Kit detects as few as one copy of the target gene and achieves a dynamic range of up to eight orders of magnitude
- Convenience: 2x master mix, one tube only. ROX™ passive reference dye provided in a separate vial

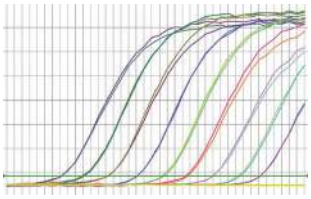
STORAGE:
Recommended storage temperature -20°C. Stable for six months from the packaging date

INCLUDES:
2x Master Mix (containing a hot start version of a modified *Thermus brockianus* DNA polymerase, SYBR Green I dye, optimized PCR buffer, 5 mM $MgCl_2$, dNTP mix including dUTP), 50x ROX passive reference dye.

Quantity	Mfr. No.	Cat. No.	Each
40 × 50µL Rxns or 100 × 20µL Rxns	F-410S	**F-410S**	71.00
200 × 50µL Rxns or 500 × 20µL Rxns	F-410L	**F-410L**	315.00
1000 × 50µL Rxns or 2500 × 20µL Rxns	F-410XL	**F-410XL**	1401.00

Thermo Scientific™ Maxima™ Probe™ qPCR Master Mixes

Ready-to-use qPCR master mixes optimized for probe chemistry using standard cycling protocols



FERK0261

The master mix includes Maxima Hot Start™ Taq DNA polymerase and dNTPs in an optimized PCR buffer. ROX™ Solution is provided in a separate vial for use with machines that require ROX as a passive reference dye. Maxima Hot Start Taq DNA polymerase in combination with the optimized buffer ensures PCR specificity and sensitivity. dUTP is included in the mix for optional carryover contamination control using uracil-DNA glycosylase (UDG). The use of Maxima Probe qPCR Master Mix in real-time PCR ensures reproducible, sensitive and specific quantification of genomic, plasmid, viral and cDNA templates.

- Specificity — Maxima Hot Start Taq DNA Polymerase and the optimized buffer eliminate non-specific amplification and formation of primer dimers
- Sensitivity — detects low copy number targets
- ROX Solution provided in a separate tube
- Wide linear range — accurate quantification across 9 orders of magnitude
- Universal — can be used on most real-time PCR instruments
- Reproducibility and convenience — ready-to-use 2X master mix

APPLICATIONS:
Real-time PCR and RT-qPCR using sequence specific probes on most real-time PCR machines.

Quantity	Mfr. No.	Cat. No.	Each
With ROX			
2 × 1.25mL (for 200 reactions of 25µL)	K0231	**FERK0231**	153.00
10 × 1.25mL (for 1000 reactions of 25µL)	K0232	**FERK0232**	649.00
4 × 12.5mL (for 4000 reactions of 25µL)	K0233	**FERK0233**	1819.00
ROX Provided			
2 × 1.25mL (for 200 reactions of 25µL)	K0261	**FERK0261**	154.00
10 × 1.25mL (for 1000 reactions of 25µL)	K0262	**FERK0262**	649.00
4 × 1.25mL (for 4000 reactions of 25µL)	K0263	**FERK0263**	1819.00

5 PRIME™ RealMasterMix Probes

For quantitative and qualitative real-time PCR

Ready-to-use mix is ideal for probe-based real-time PCR assays such as Taq Man™ or molecular beacons. The optimized formulation contains all of the components for quantitative PCR (except for template and primers/probes) in one tube for fast, easy handling and results with high reproducibility.

- Utilizes HotMaster™ Taq for Hot Start/Cold Stop™ activity
- Uses Mg^{2+} self-adjusting buffer, eliminating the need for optimization of magnesium
- Offers anti-primer-dimer formation technology
- Enhances the signal release by nucleolytic probe degradation, so more signal can be generated with the same amount of target DNA
- Optimized for sequence-specific probes
- Available with and without ROX™ passive reference dye for reference dye dependent and independent instrument platforms

STORAGE:
Store at -20°C for long-term storage. Stable at 4°C for up to three months. Products containing ROX™ should be protected from light.

FP200000 Series

Description	Quantity	Mfr. No.	Cat. No.	Each
RealMasterMix Probe	2000 × 50µL rxns	2200710	**FP2200710**	3410.00
RealMasterMix $Probe_{Rox}$	200 × 50µL rxns	2200720	**FP2200720**	396.00
RealMasterMix Probe	200 × 50µL rxns	2200700	**FP2200700**	403.50

Reverse Transcription

Thermo Scientific™ Verso™ 1-Step RT-PCR Kits

A complete set of RT-PCR reagents with a highly processive reverse transcriptase enzyme stable up to 57°C. Available with regular or hot start Taq.

AB-1454LDA

The Verso RT enzyme delivers high processivity and can be used at temperatures up to 57°C, delivering effective transcription through difficult RNA secondary structures. Verso also shows a better dynamic range than standard AMV or M-MuLV enzymes, with increases in template concentration giving rise to corresponding increases in product generated over a wider range of starting material concentrations.

The Verso system is available with ThermoPrime (standard PCR) or Thermo-Start™ (hot start) polymerase, the latter providing a more specific option that delivers higher yields and greatly reduces nonspecific primer extension before PCR. Thermo-Start Taq DNA Polymerase is a chemically-modified polymerase that remains inactive throughout the RT step, activated only by the high-temperature incubation (95°C for 15 minutes) prior to PCR.

Description	Quantity	Mfr. No.	Cat. No.	Each
Verso 1-Step RT-PCR Master Mix w/ ThermoPrime Taq	80 × 25µL rxn	AB-1454/A	**AB-1454A**	182.30
	400 × 25µL rxn	AB-1454/B	**AB-1454B**	808.00
Verso 1-Step RT-PCR ReddyMix Master Mix w/ThermoPrime Taq	80 × 25µL rxn	AB-1454/LD/A	**AB-1454LDA**	196.90
	400 × 25µL rxn	AB-1454/LD/B	**AB-1454LDB**	880.50
Verso 1-Step RT-PCR Master Mix w/Thermo-Start Taq (Hot Start)	80 × 25µL rxn	AB-1455/A	**AB-1455A**	190.50
	400 × 25µL rxn	AB-1455/B	**AB-1455B**	824.00

Thermo Scientific™ Verso™ 1-step qRT-PCR Kits

Ready-to-use optimized solutions for 1-step RT-qPCR using probe chemistry

AB-4100A

Verso 1-step RT-qPCR Kits for probe chemistry offer a quick and simple way to detect mRNA. The Verso RT enzyme delivers high processivity and can be used at temperatures up to 57°C, delivering effective transcription through difficult RNA secondary structures. An optional RT Enhancer is also provided and can be used during the RT step to remove any DNA contamination, eliminating the need for DNase I treatment. All Verso 1-step RT-qPCR kits incorporate an inert dye to significantly enhance the contrast between reagent and plastic, making verification of master mix dispensing quick, easy, and foolproof.

Description	Quantity	Mfr. No.	Cat. No.	Each
1-Step QRT-PCR Kit plus separate ROX vial	200 × 25µL rxns	AB-4100/A	**AB-4100A**	340.50
1-Step QRT-PCR Kit plus separate ROX vial	400 × 25µL rxns	AB-4100/C	**AB-4100C**	620.00
1-Step QRT-PCR Kit w/ROX	200 × 25µL rxns	AB-4101/A	**AB-4101A**	340.50
1-Step QRT-PCR Kit w/ROX	400 × 25µL rxns	AB-4101/C	**AB-4101C**	597.50
1-Step QRT-PCR Kit w/low ROX	200 × 25µL rxns	AB-4102/A	**AB-4102A**	340.50
1-Step QRT-PCR Kit w/low ROX	400 × 25µL rxns	AB-4102/C	**AB-4102C**	626.50

Thermo Scientific™ Verso™ cDNA synthesis Kit

Robust transcription of RNA to create a complete cDNA pool

AB-1453A

The Verso system achieves robust and sensitive reverse transcription through the combination of a high affinity RT enzyme, a unique RNA priming method and an optimized buffering system. The Verso RT enzyme has high RNA template affinity and reduced RNase H activity, to transcribe even sections with high secondary structure. The included anchored oligo dT priming method further enhances sensitivity by increasing transcription efficiency, and the cDNA synthesis buffer has been optimized to achieve a full and diverse cDNA pool.

Quantity	Mfr. No.	Cat. No.	Each
40 × 20µL rxn reactions	AB-1453/A	**AB-1453A**	125.40
100 × 20µL rxn reactions	AB-1453/B	**AB-1453B**	301.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Maxima™ Reverse Transcriptase

An advanced enzyme developed through in vitro evolution of M-MuLV RT

The enzyme possesses an RNA-dependent and DNA-dependent polymerase activity as well as RNase H activity. The engineered enzyme features dramatically improved thermostability, robustness and increased synthesis rate compared to wild type M-MuLV RT.

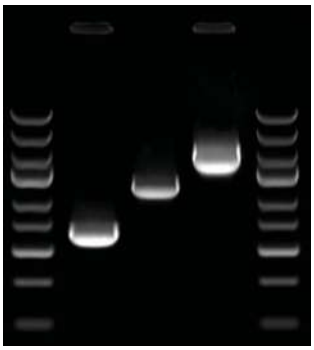
Maxima Reverse Transcriptase is capable of reproducible cDNA synthesis from a wide range of input total RNA amounts (from 1pg to 5µg) at elevated temperatures (50° to 60°C), which makes this enzyme an ideal tool for two step RT-qPCR.

Due to its high thermostability, the enzyme maintains full activity during the entire reverse transcription reaction, generates the highest yields of cDNA and is able to synthesize even very long RNA transcripts up to 20kb. The reaction temperature can be increased up to 60°C for efficient transcription of RNA regions with a high secondary structure or to improve specificity using gene specific primers. Due to its increased synthesis rate, the reverse transcriptase reaction can be completed in 15 to 30 min.

Quantity	Includes	Mfr. No.	Cat. No.	Each
10000U	1mL of 5X RT Buffer	EP0742	**FEREP0742**	166.20
2000U	2 × 1mL of 5X RT Buffer	EP0743	**FEREP0743**	532.00

Thermo Scientific™ Maxima H Minus First Strand cDNA Synthesis Kit

A complete system for highly efficient synthesis of first strand cDNA



FERK1651

The kit uses the RevertAid™ Premium Reverse Transcriptase (RT), an advanced enzyme derived by *in vitro* evolution of M-MuLV RT. The enzyme features the highest thermostability among the derivatives of M-MuLV RT and lacks the RNase H activity. RevertAid Premium Enzyme Mix contains RevertAid Premium Reverse Transcriptase and RiboLock RNase Inhibitor. RiboLock RNase Inhibitor effectively protects RNA templates from degradation by RNases A, B and C at temperatures up to 55°C. Oligo$(dT)_{18}$ and random hexamer primers are supplied with the kit. Random hexamer primers bind non-specifically and are used to synthesize cDNA from all RNAs in a total RNA population. The oligo$(dT)_{18}$ primer selectively anneals to the 3'-end of poly(A) RNA, synthesizing cDNA only from poly(A) tailed mRNA. Gene-specific primers may also be used with the kit to prime synthesis from a specified sequence. Water, nuclease-free is provided for reaction set-up and dilution of sample DNA. The absence of endo-, exodeoxyribonucleases, ribonucleases and phosphatases has been confirmed by appropriate quality tests.

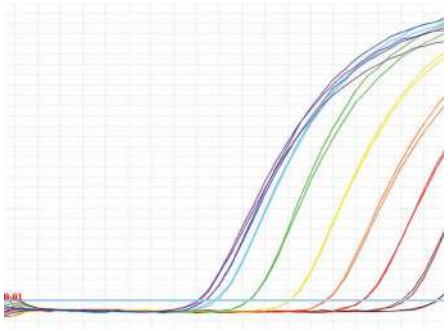
Quantity	Mfr. No.	Cat. No.	Each
20 Reactions	K1651	**FERK1651**	113.00
100 Reactions	K1652	**FERK1652**	454.00

Thermo Scientific™ Maxima™ First Strand cDNA Synthesis Kit for RT-qPCR

A complete system for efficient synthesis of first strand cDNA

The kit uses Maxima Reverse Transcriptase, an advanced enzyme derived by *in vitro* evolution of M-MuLV RT. The enzyme features high thermostability, robustness and increased cDNA synthesis rate compared to wild type M-MuLV RT. The contents of the kit include the Maxima Enzyme Mix, 5X Reaction Mix and Water, nuclease-free. Maxima Enzyme Mix contains Maxima Reverse Transcriptase and RiboLock™ RNase Inhibitor. The recombinant RiboLock RNase Inhibitor effectively protects RNA templates from degradation by RNases A, B and C at temperatures up to 55°C. 5X Reaction Mix contains the remaining reaction components: reaction buffer, dNTPs, oligo $(dT)_{18}$ and random hexamer primers. Water, nuclease-free is provided for reaction set-up and dilution of sample RNA. The absence of endo-, exodeoxyribonucleases, ribonucleases and phosphatases has been confirmed by appropriate quality tests.

- Sensitive and reproducible cDNA synthesis from a wide range of total RNA amounts (1pg to 5µg)
- Increased synthesis rate — complete cDNA synthesis in 15 minutes
- Increased reaction temperature — up to 60°C
- Convenient format — premixed solutions for use in RT-qPCR



FERK1641

APPLICATIONS:
Two step RT-qPCR.

ORDERING INFORMATION:
Orders placed Monday through Wednesday ship next day; Thursday and Friday orders ship the following Monday.

Quantity	Mfr. No.	Cat. No.	Each
50 Reactions	K1641	**FERK1641**	285.00
200 Reactions	K1642	**FERK1642**	841.00

Thermo Scientific™ Maxima™ H Minus Reverse Transcriptase

A highly thermostable, high-processivity reverse transcriptase lacking RNase H activity

- High thermal stability for improved enzyme performance
- Full activity throughout the reaction
- Full-length cDNA at 42° to 65°C
- 7.5kb cDNA in 5 minutes — among fastest RT in the industry
- 50x more processive than wild-type M-MuLV RT
- Capable of reproducible cDNA synthesis from 1pg up to 5µg of total RNA
- Increased resistance to common reaction inhibitors

Quantity	Mfr. No.	Cat. No.	Each
2000U	EP0751	**FEREP0751**	54.00
10,000U	EP0752	**FEREP0752**	186.89

Thermo Scientific™ RevertAid™ H Minus Reverse Transcriptase

A recombinant M-MuLV RT lacking RNase H activity for high-yield cDNA synthesis.

The enzyme possesses an RNA-dependent and DNA-dependent polymerase activity, but lacks RNase H activity due to point mutation in the RNase H domain (1, 2). RevertAid H Minus Reverse Transcriptase does not degrade RNA in RNA-DNA hybrids during synthesis of the first strand cDNA and therefore higher yields of full-length cDNA from long templates are obtained. RevertAid H Minus Reverse Transcriptase optimal temperature is 42° to 45°C.

- High yields of full-length first strand cDNA up to 13kb
- Optimum activity at 42° to 45°C
- Active up to 55°C
- Incorporates modified nucleotides (e.g., Cy3-, Cy5-, rhodamine-, aminoallyl-, fluorescein-labeled nucleotides)

Quantity	Includes	Mfr. No.	Cat. No.	Each
10,000U	1mL 5X Reaction Buffer	EP0451	**FEREP0451**	101.02
100U	5 x 1mL 5X Reaction Buffer	EP0452	**FEREP0452**	404.08

Thermo Scientific™ RevertAid™ Reverse Transcriptase

A genetically modified M-MuLV RT for routine performance in reverse transcription

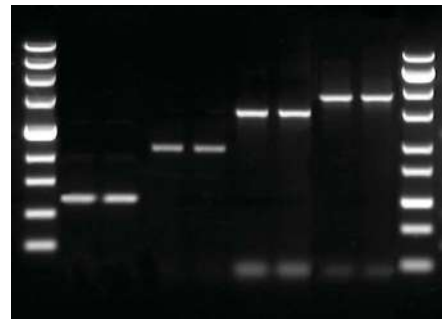
The enzyme possesses an RNA-dependent and DNA-dependent polymerase activity and a RNase H activity specific to RNA in RNA-DNA hybrids which is significantly lower than that of Avian Myeloblastosis Virus (AMV) reverse transcriptase (1, 2).

- Efficient synthesis of full-length first strand cDNA up to 13kb
- Optimum activity at 42°C
- Active up to 50°C
- Incorporates modified nucleotides (e.g., Cy3-, Cy5-, rhodamine-, aminoallyl-, fluorescein-labeled nucleotides)

Quantity	Includes	Mfr. No.	Cat. No.	Each
10,000U	10 x 1mL of 5X Reaction Buffer	EP0441	**FEREP0441**	70.00
100U	5 x 1mL of 5X Reaction Buffer	EP0442	**FEREP0442**	283.00

Thermo Scientific™ RevertAid™ First Strand cDNA Synthesis Kit

A complete system for efficient synthesis of first strand cDNA from RNA templates



FERK1621

The kit uses RevertAid Reverse Transcriptase which has lower RNase H activity, compared to AMV reverse transcriptase. The recombinant RiboLock™ RNase Inhibitor, supplied with the kit, effectively protects RNA template from degradation. It is fully compatible with reverse transcription reaction, as it maintains activity at temperatures up to 55°C. The oligo$(dT)_{18}$ anneals selectively on the poly(A) tail of mRNA. Random hexamer primers do not require the presence of poly(A). Therefore, they can be used for transcription of the 5'-end regions of mRNA or cDNA synthesis using RNA without poly(A) tail, e.g., micro RNAs.

Gene-specific primers may also be used with the kits. The first strand of cDNA can be directly used as a template in PCR, real-time PCR or in second strand cDNA synthesis.

Quantity	Mfr. No.	Cat. No.	Each
For 20 reactions	K1621	**FERK1621**	78.00
For 100 reactions	K1622	**FERK1622**	311.00

5 PRIME™ MasterScript™ RTplusPCR™ Kits

Provide maximum flexibility for all demands of RT-PCR

- Use a recombinant homodimeric viral reverse transcriptase combined with the MasterScript RT-PCR buffer
- Allow efficient cDNA synthesis up to 12.5kb over a 99° to 140°F (37° to 60°C) temperature range
- Virtually eliminate the need for Mg^{2+} optimization by using self-adjusting MasterScript RT-PCR buffer
- Licensed for PCR

APPLICATIONS: Generate cDNA probes for Northern Blot; label RNA samples for microarray hybridization; prepare full-length cDNA libraries; detect and quantify mRNA level from low to high throughput

STORAGE: Store at -20°C

Quantity	Mfr. No.	Cat. No.	Each
20 rxns	2201100	**FP2201100**	135.20
100 rxns	2201110	**FP2201110**	515.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

5 Prime™ RealMasterScript SuperMix Kit

Provides maximum flexibility for all demands of RT-PCR

Reverse Transcription (RT) and RT-PCR are the most popular techniques for RNA analysis, and the RealMasterscript SuperMix Kit enables the full range of RNA-related applications.

Key Features

- Robust RealMasterScript enzyme
- Mastermix format — 5X SuperMix
- Optimized mix of random and oligo (dT) primers
- Optimized buffer formulation

Key Benefits

- Easy-to-use — just add RNA — very fast!
- Excellent specificity and maximum reproducibility — High cDNA yields even from low abundance transcripts
- Proven Reliability — Bias-free cDNA synthesis from 5´and 3´regions of transcript
- Flexible first strand cDNA synthesis and subsequent qPCR or endpoint PCR
- Broad dynamic range

Total Reactions	Mfr. No.	Cat. No.	Each
25	2201020	**FP2201020**	128.15
100	2201030	**FP2201030**	459.21

GE™ Healthcare First-Strand cDNA Synthesis Kit

For synthesis of single-stranded cDNA from mRNA templates prior to amplification by PCR

- Preassembled bulk reaction mixes save time and minimize potential for pipetting errors
- Primers are not included in the preassembled reaction mixes, allowing use of a primer of choice
- Two primers are included with the kit
- pd$(N)_6$ primer (random hexamer) is used to prepare libraries for screening with antibodies, to increase the representation of 5'-ends of mRNAs having significant secondary structure or to copy mRNAs lacking a poly(A) tail
- Not I-$(dT)_{18}$ bifunctional primer can be used to prime selectively on mRNA having a poly(A) tail and can also be used as a PCR primer following first-strand synthesis
- The Not I restriction site, located at the 5'-end of the primer, is particularly useful for subsequent directional cloning of cDNA and PCR products

Quantity	Mfr. No.	Cat. No.	Each
55 rxns	27-9261-01	**45-001-414**	385.20

GE™ Healthcare Ready-to-Go™ You-Prime First-Strand Beads

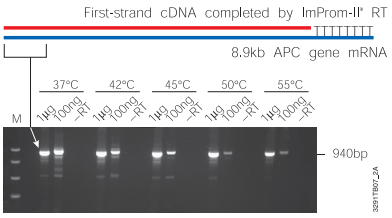
For synthesis of first-strand cDNA templates from total RNA or polyadenylated RNA — using a primer of choice — for RT-PCR

- Predispensed, ambient-temperature-stable, single-dose reaction beads minimize pipetting errors, avoid cross-contamination and ensure optimal performance
- Each first-strand reaction requires only the addition of RNA in DEPC-treated water and a user-selected first-strand primer
- First-strand reaction may be primed with oligo(dT) primers, random primers such as pd(N)6 or custom primers complementary to a specific mRNA sequence
- Conditions of this reaction have been optimized to permit full-length transcription of RNAs 7kb or more in length
- Final reaction volume is 33µL once reconstituted
- Ideal for research applications that use PCR to detect and quantify eukaryotic RNA from a variety of samples

Quantity	Mfr. No.	Cat. No.	Each
50 rxns	27-9264-01	**45-001-416**	473.70

Promega™ ImProm-II™ Reverse Transcription System

Formulated for stand-alone applications or for easy transition to gene-specific target amplification



Full-length cDNA synthesis of 8.9kb template over a range of temperatures using the ImProm-II Reverse Transcription System (PR-A3800), demonstrated by selective amplification of terminal 3' sequence in two-step RT-PCR. Entire 8.9kb message must be reverse transcribed to amplify the terminal 940 bp sequence. Message was amplified from either 1µg or 100ng of total RNA. Control reactions without the reverse transcriptase (-RT) are shown as well.

- Reverse transcribes RNA templates from total RNA, poly(A)+ mRNA or synthetic transcript RNA
- Enables robust, full-length cDNA synthesis for the analysis of rare or long messages (up to 8.9kb) Uses volumes of 1–20µL from the initial RT reaction in coupled or uncoupled PCR reactions
- May also be used for the incorporation of regular, Cy™3-modified Cy5-modified, and amino-allyl-modified nucleotides for microarray applications
- Refill components available separately

STORAGE: Store at -20°C.

Quantity	Mfr. No.	Cat. No.	Each
System			
100 Reactions	A3800	**PR-A3800**	464.60
Refill Components			
ImProm-II Reverse Transcriptase (100 reactions)	A3802	**PR-A3802**	160.16
ImProm-II Reverse Transcriptase (500 reactions)	A3803	**PR-A3803**	617.76

Promega™ Reverse Transcription System

Efficiently reverse-transcribes RNA into cDNA in just 15 minutes

- AMV Reverse Transcriptase synthesizes single-stranded cDNA from total or poly(A)+ RNA Both Oligo(dT)15 and Random Primers are included, allowing cDNA synthesis from virtually any RNA source
- A polyadenylated 1.2kb RNA transcript is provided as a control template

STORAGE:
Store at -20°C; store positive control RNA at -70°C.

INCLUDES:
Necessary enzymes, primers, and buffers; dNTPs; Nuclease-free water

NOTES:
Additional buffers are also available separately.

U.S. Patent 5,552,302; Australian Patent 646803 and other patents.

Description	Quantity	Mfr. No.	Cat. No.	Each
Reverse Transcription System	100 rxns	A3500	**PR-A3500**	517.99
$MgCl_2$ Solution, 25mM	1.5mL	A3511	**PR-A3511**	37.77
$MgCl_2$ Solution, 25mM	25mL	A3513	**PR-A3513**	51.80
Reverse Transcription 10X Buffer	1.4mL	A3561	**PR-A3561**	37.77

Promega™ Random and Oligo (dT) Primers

For first-strand cDNA synthesis and cloning

- Quality tested in RT-PCR using the ImProm-II™ Reverse Transcription System (Mfr. No. A3800) for first-strand cDNA synthesis
- Tested to be free of RNase and DNase activity
- Use with AMV, M-MLV or ImProm-II Reverse Transcriptases to prime first-strand cDNA synthesis

APPLICATIONS: Store at -20°C.

Description	Quantity	Mfr. No.	Cat. No.	Each
Random Primers	20µg	C1101	**PRC1181**	39.93
Oligo(dT) Primers	20µg	C1181	**PRC1101**	61.51

Nucleotides

Thermo Scientific™ dNTP Set

Supplied in aqueous solutions of dATP, dTTP, dCTP and dGTP in separate tubes

A convenient set of 100mM solutions of each dATP, dTTP, dCTP and dGTP for direct use in PCR, reverse transcription, labeling and other applications.

- Stable for a minimum 100 freeze-thaw cycles
- 90 to 95% of dNTPs remain in triphosphate form even after 7 weeks at room temperature
- 85 to 90% of dNTPs remain in triphosphate form after 30 cycles of PCR (1 min. at 94°C; 3 min at 72°C)
- Free of human and *E.coli* DNA
- Greater than 99% purity confirmed by HPLC

Quantity	Mfr. No.	Cat. No.	Each
4 × 0.25mL (4 × 25 µmol of 100mM solution)	R0181	**FERR0181**	154.70
4 × 1mL (4 × 100 µmol of 100mM solution)	R0182	**FERR0182**	474.50

Thermo Scientific™ dNTP Mixes

Supplied in a premixed aqueous solution of dATP, dTTP, dCTP and dGTP

For direct use in PCR, reverse transcription and other applications.

- Application tested in: long range PCR (40kb), cDNA synthesis and RT-PCR, real-time PCR, standard PCR, high fidelity PCR
- Highly stable — the neutral pH of nucleotide solutions ensures the stability during long-term storage
- Free of human and E.coli DNA
- Greater than 99% purity confirmed by HPLC

Quantity	Mfr. No.	Cat. No.	Each
1mL (40µmol total)	R0192	**FERR0192**	103.80
5 × 1mL (200µmol total)	R0193	**FERR0193**	394.50

Thermo Scientific™ dNTP Mixes

dNTP mixes supplied in a premixed aqueous solution of dATP, dTTP, dCTP and dGTP

For direct use in PCR, reverse transcription and other applications.

Quantity	Mfr. No.	Cat. No.	Each
1mL (100 µmol total)	R1121	**FERR1121**	197.20
5 × 1mL (500 µmol total)	R1122	**FERR1122**	788.50

Promega™ dNTP Mix

High-purity dNTPs are >98% pure

Premixed solution containing sodium salts of dATP, dCTP, dGTP and dTTP.

STORAGE: Store at -20°C.

Description	Concentration	Quantity	Mfr. No.	Cat. No.	Each
dNTP Mix	10mM	200µL	U1511	**PRU1511**	29.14
dNTP Mix	10mM	1000µL	U1515	**PRU1515**	67.99

Promega™ Ultra Pure Deoxynucleotide Triphosphates (dNTPs)

High-quality dNTPs for cDNA synthesis, sequencing and labeling

PR-U1330

- Triphosphate content is >98%
- No detectable DNase or RNase activity
- Performance is tested using AMV reverse transcriptase, DNA polymerase and Taq DNA polymerase dNTPs are assayed to ensure the absence of contaminating dUTP
- Combination packages include individual tubes of each dNTP
- Premixed solutions contain equal amounts of each dNTP in a single tube

STORAGE: Store at -20°C.

Description	Concentration	Quantity	Mfr. No.	Cat. No.	Each
Set of dATP, dCTP, dGTP, dTTP	100mM, Ea.	4 × 10µmol	U1330	**PR-U1330**	101.44
		4 × 25µmol	U1420	**PR-U1420**	228.78
		4 × 40µmol	U1240	**PR-U1240**	342.09
		4 × (2 × 100µmol)	U1410	**PR-U1410**	1298.22
PCR Nucleotide Mix	10mM	200µL	C1141	**PR-C1141**	73.38
		1000µL	C1145	**PR-C1145**	281.66

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Microplates

96-Well

Fisherbrand® 96-Well Low-Profile, Skirted PCR Plates

Fit most thermal cyclers

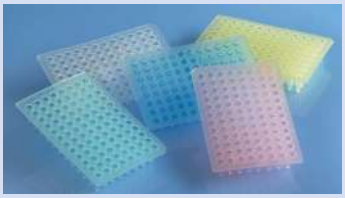
14-230-237

- Virgin polypropylene
- Clear well bottom for sample visibility
- Stackable
- Raised-rim design
- Sealable using adhesive films and foils, heat seals and cap strips
- 200µL maximum well volume when used with adhesive and heat seals
- Cut-away corner and alphanumeric grid
- SBS (Society for Biomolecular Screening) footprint
- Automation friendly
- Eight holes in the skirt aid plate positioning and removal from thermal cycler block
- Cleanroom produced

Color	Well Volume	Cat. No.	Case of 25
Natural	200µL	**14-230-237**	103.00

Fisherbrand® 96-Well Nonskirted PCR Plates

Compatible with all 0.2mL thermal cyclers and ABI PRISM™ 310, 3100 and 3700 capillary sequencers



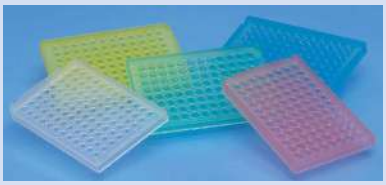
14-230-230 Series

- Virgin polypropylene
- Clear well bottom for sample visibility
- Highly rigid plate deck
- Raised rim design
- Sealable using adhesive films and foils, heat seals and cap strips
- 300µL maximum volume when used with adhesive and heat seals
- Cut-away corner and alphanumeric grid
- Cleanroom produced

Color	Well Volume	Cat. No.	Case of 25
Natural	300µL	**14-230-232**	99.90
Blue	300µL	**14-230-234**	100.20
Green	300µL	**14-230-235**	100.70
Red	300µL	**14-230-233**	99.00
Yellow	300µL	**14-230-236**	100.70

Fisherbrand® 96-Well Semi-Skirted PCR Plates

Directly compatible with all major thermal cyclers, including ABI instruments — can be used in ABI 96-well sequencers without adapters



14230244

- Virgin polypropylene
- Clear well bottom for sample visibility
- Raised-rim design
- Sealable with adhesive films and foils, heat seals and cap strips
- 300µL maximum volume when used with adhesive and heat seals
- Cut-away corner and alphanumeric grid
- Cleanroom produced

Color	Well Volume	Cat. No.	Case of 25
Natural	300µL	**14230244**	112.20

Thermo Scientific™ 96-Well Non-Skirted Plates

Available with black lettering for improved sample tracking during pipetting

AB-0600

96-Well Non-Skirted Plates for use in PCR and qPCR applications hold up to 0.3 mL of well volume when paired with seals like adhesive films/foils, Thermo-Mat™ and cap strips. The plates feature a cut corner located at H1 and are compatible with most thermal cycles.

The well bottom is clear for maximum visibility. Available in assorted colors with clear or black alpha-numeric lettering. Compatible with standard multichannel pipettes.

CERTIFICATIONS:
Certified free of human DNA, RNase, DNase and endotoxins.

Color	Mfr. No.	Cat. No.	Pack of 25
Clear	AB-0600	**AB-0600**	119.60
Clear	AB-0600L	**AB-0600L**	119.60
White	AB-0600/W	**AB-0600W**	132.20

Thermo Scientific™ 96-Well Semi-Skirted Plates, Raised Deck

0.3 mL, semi-skirted PCR plates

Specifically designed to be directly compatible with all ABI platforms, including 96-well sequencers, without the need for adapters. The plates have a cut corner at the A12 location and are available with barcodes or as a SuperPlate for robotic handling. The bottom of the well is clear for better sample visibility and the semi-skirted plates can be sealed.

AB-1100

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Description	Color	Mfr. No.	Cat. No.	Pack of
Standard Plate	Clear	AB-1100	**AB-1100**	25/126.80
Standard Plate	White	AB-1100/W	**AB-1100W**	25/139.40
Standard Plate	Clear	AB-1100150	**AB-1100150**	150/647.50

Thermo Scientific™ 96-Well Semi-Skirted Plates, Flat Deck

With a flat deck for improved sealing in PCR and qPCR applications

96-Well Semi-Skirted Flat Deck PCR Plates are compatible with most thermal cyclers and ABI platforms, including sequencers, with no adapters necessary. The Thermo Scientific PCR plastics are designed, manufactured, and tested to ensure PCR performance. The plates have 0.3 mL maximum well volume when used with adhesive and heat seals.

96-Well Semi-Skirted Plate

The flat plate deck design ensures easy handling, and the plates feature a raised rim to prevent evaporation. The 96-Well Semi-Skirted Flat Deck PCR Plates have a cut corner at the A12 location and have thin well walls for consistent heat transfer.

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Color	Mfr. No.	Cat. No.	Case of
Clear	AB-1400	**AB-1400**	25/121.40
Clear	AB-1400/150	**AB-1400150**	150/713.00
Clear, w/black lettering	AB-1400-L	**AB-1400L**	25/123.50
White	AB-1400/W	**AB-1400W**	25/129.60
White, w/black lettering	AB-1400/w-L	**AB-1400WL**	25/139.10

ON THE WEB...

Not finding the PCR plastics that you are looking for?

Visit www.fishersci.com/lifescience/genomics

Thermo Scientific™ ABgene™ Thermo-Fast™ 96-Well Semi-Skirted PCR Plates

Patented segmented design allows plate to be cut into 24- and 48-well sections

- Virgin polypropylene
- Raised rim, thin-wall design
- Clear well bottom for sample visibility
- Compatible with all major thermal cyclers
- 300µL maximum well volume (when used with adhesive and heat seals)
- Cut-away corner and alphanumeric grid
- Available in a rigid version for robotic handling applications; rigid version cannot be cut
- Patented segmented plate design allows plates to be cut into 24- and 48-well sections
- Semi-skirt adds rigidity and allows for labeling or bar coding
- Cut corner: H1

AB-0900

CERTIFICATIONS:
Certified free from DNase, RNase and human genomic DNA.

Color	Well Volume	Mfr. No.	Cat. No.	Pack of 25
Segmented				
Clear	300µL	AB-0900	**AB-0900**	120.80
White	300µL	AB-0900/W	**AB-0900W**	132.70
Clear, w/barcode	300µL	BC0900	**BC-0900**	130.10
Non-Rigid				
Natural	300µL	AB-0990	**AB-0990**	132.70

Thermo Scientific VersiPlate and VersiCap Mats

Flexible consumables for PCR & qPCR

SEE MORE...

Click here to see how VersiPlate and VersiCap can change your PCR & qPCR set up.

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Armadillo™ 96-Well PCR Plates

Ultra-rigid PCR plates with poylcarbonate frame and polypropylene wells are designed for high-throughput, robotic PCR and qPCR applications

Combining the rigidity of a polycarbonate frame with thin walled polypropylene wells, the Armadillo plate provides superior thermal cycling performance under all conditions without warping. These plates are designed for high-throughput, robotic PCR and qPCR applications and feature a raised rim to improve seal integrity. They are available with both clear and white colored wells.

AB-2396 Series

APPLICATIONS: PCR, qPCR and Real-Time PCR.

CERTIFICATIONS: Certified free from human DNA, RNases and DNases.

Skirt Color	Well Color	Mfr. No.	Cat. No.	Pack of
Clear	Clear	AB-2396	**AB-2396**	25/127.30
Blue	Clear	AB-2396/B	**AB-2396B**	25/127.30
Orange	Clear	AB-2396/O	**AB-2396O**	25/127.30
Red	Clear	AB-2396/R	**AB-2396R**	25/127.30
Yellow	Clear	AB-2396/Y	**AB-2396Y**	25/127.30
Clear	White	AB-3396	**AB-3396**	25/140.70
Blue	White	AB-3396/B	**AB-3396B**	25/136.00
Green	White	AB-3396/G	**AB-3396G**	25/136.00
Orange	White	AB-3396/O	**AB-3396O**	25/136.00
Red	White	AB-3396/R	**AB-3396R**	25/136.00
Yellow	White	AB-3396/Y	**AB-3396Y**	25/136.00

Axygen™ 96-Well PCR Microplates

Available in a variety of colors

PCR™ products specifically designed for use within PCR thermal transfer and real time PCR applications. A variety of colors are offered to help organize multi-step PCR processes.

14-223-330

- 96-well PCR microplates
- Working volume is 300µL
- Available in a variety of colors
- Sold 10 plates/unit; 5 units/Cs.

Description	Mfr. No.	Cat. No.	Each
Assorted	PCR-96-A	**14-223-330**	434.00
Blue	PCR-96-B	**14-223-331**	418.38
Black	PCR-96-BK	**14-223-332**	411.50
Green	PCR-96-G	**14-223-333**	419.73
Red	PCR-96-R	**14-223-342**	486.31
Violet	PCR-96-V	**14-223-343**	419.73
Yellow	PCR-96-Y	**14-223-344**	419.73

Axygen™ 96-Well Half-Skirt PCR Microplates

Half-skirt amplification plate with single notch

PCR products specifically designed for use within PCR thermal transfer and real time PCR applications. A variety of colors are offered to help organize multi-step PCR processes.

14-223-340

- 96-well PCR half-skirt amplification plate with a single notch
- Working volume is 300µL
- Available in a variety of colors
- Sold 10 plates/unit; 5 units/Cs.

Description	Mfr. No.	Cat. No.	Each
Black	PCR-96M2-HS-BK	**14-223-335**	497.90
Green	PCR-96M2-HS-G	**14-223-336**	463.57
Orange	PCR-96M2-HS-O	**14-223-337**	497.90
Red	PCR-96M2-HS-R	**14-223-338**	463.57
Violet	PCR-96M2-HS-V	**14-223-339**	463.57
White	PCR-96M2-HS-W	**14-223-340**	515.00
Yellow	PCR-96M2-HS-Y	**14-223-341**	463.57

Corning™ Thermowell™ 96-Well PCR Microplates

Ultrathin polypropylene or polycarbonate for fast, consistent heat transfer

Polypropylene Plates

- Fit a variety of heat blocks
- Sealable with 8-cap strips or sealing mat
- Autoclavable
- Robotic-friendly with wide skirt for bar code compatibility

Plastic 96-Well Microplates

Polycarbonate Plates

- Low protein-binding surface prevents loss of sample
- For oil-free operation, use polyethylene or aluminum sealing tape in conjunction with heated-lid cyclers; also accommodates silicone reusable sealing mat
- Withstands temperatures to 135°C without warping
- Various well shapes fit popular thermal cyclers
- Surface of DNA-BIND™ plate allows covalent attachment of ssDNA at 5' and 3' end
- Nonsterile

CERTIFICATIONS:
Polypropylene plates are certified DNase- and RNase-free.

Color/Well Style	Mfr. No.	Cat. No.	Case of 25
Polypropylene			
Clear	6551	**07-200-613**	195.70
Polycarbonate			
Clear/P	6509	**07-200-541**	231.15
Clear/M	6511	**07-200-245**	236.18
Clear/M/DNA-BIND	6573	**07-200-691**	550.84

Eppendorf™ 96-Well twin.tec™ PCR Plates

Ideal for extreme applications such as multiple heat sealing

Manufactured using "twin-shot" technology, combining the surface of virgin polypropylene wells with the rigidity of poloycarbonate plate decks and skirts.

- Wells are 20% thinner than standard thin-wall tubes for optimum heat transfer to sample
- Polycarbonate plate decks and skirts provide mechanical stability, simplifying plate handling and ensuring a more secure seal
- Autoclavable
- Meet SBS (Society for Biomolecular Screening) footprint recommendations
- Automation friendly
- Available in skirted or semi-skirted styles in five colors with clear wells

E9-510-20389, E9-510-20303, E9-510-20346, E9-510-20362, E9-510- 20427

CERTIFICATIONS:
Certified DNA-, DNase-, RNase- and PCR-inhibitor-free.

Color	Mfr. No.	Cat. No.	Case of
Skirted (150µL Well Volume)			
Clear	951020401	**E9-510-20401**	25/126.74
Blue	951020460	**E9-510-20460**	25/126.74
Green	951020443	**E9-510-20443**	25/126.74
Red	951020486	**E9-510-20486**	25/126.74
Yellow	951020427	**E9-510-20427**	25/126.74
Semi-skirted (250µL Well Volume)			
Clear	951020303	**E9-510-20303**	25/126.74
Blue	951020362	**E9-510-20362**	25/126.74
Green	951020346	**E9-510-20346**	25/126.74
Red	951020389	**E9-510-20389**	25/126.74
Yellow	951020320	**E9-510-20320**	25/126.74

24- and 48-Well

Thermo Scientific™ 24-Well Semi-Skirted PCR Plate

24-well semi-skirted plate for PCR and qPCR applications

The 24-Well Semi-Skirted PCR Plate is pre-cut into 24-well segments. Its convenient format allows for lower sample numbers. The semi skirt adds rigidity and allots space for labeling or barcoding. Available in various colors and compatible with standard multichannel pipettes. Sealing is possible with adhesive films and foils and all cap strips.

AB-0624

Highlights

- Conveniently pre-cut into 24-well segments
- Suitable for use in 0.2mL thermal cycler blocks
- Semi-skirt adds rigidity and allows for labeling or barcoding
- 0.3mL maximum well volume (when used with adhesive seals)
- Sealable using adhesive films and foils and all cap strips

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Color	Well Volume	Mfr. No.	Cat. No.	Case of 50
24-Well PCR Plate (3 × 8 wells)				
Clear	300µL	AB-0624	**AB-0624**	156.20

Thermo Scientific™ 48-Well Semi-Skirted Plates

48-well semi-skirted plate for PCR and qPCR applications

- Conveniently pre-cut into 48-well segments
- Semi-skirt adds rigidity and allows for labeling or bar coding
- Thin wall polypropylene

Color	Well Volume	Mfr. No.	Cat. No.	Case of 50
48-Well PCR Plate (6 × 8 wells)				
Clear	300µL	AB-0648	**AB-0648**	171.60

384-Well

Fisherbrand® 384-Well Skirted PCR Plate

Compatible with the majority of 384-block PCR and sequencing instruments

- Virgin polypropylene
- Rigid plate deck
- 40µL maximum well volume; 25µL working volume
- Cut-away corners and alphanumeric grid
- SBS (Society for Biomolecular Screening) footprint
- Automation friendly
- Eight holes in skirt aid plate positioning and removal from thermal cycler block
- Cleanroom produced

14-230-243

Color	Well Volume	Cat. No.	Case of 50
Natural	40µL	**14-230-243**	422.01

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ 384-Well Full-Skirted Plates, Standard

Fully-skirted 384-well standard plates compatible with a wide range of block thermal cyclers for use in PCR and qPCR applications

Designed for high-throughput PCR, the Thermo Scientific 384-well plate is compatible with the majority of 384 block PCR and sequencing instruments. It has a maximum well volume of 40µL and a working volume of 25µL. This 384-well plate is compatible with all major 384-block thermal cyclers, and it has a cut corner at the A24 location.

Highlights

- Fully skirted for use with automated systems
- Compatible with all leading 384 block thermal cyclers
- 40µL maximum well volume, 25µL working volume
- Raised rim design around each well enables secure sealing and safeguards against evaporation
- Uniform, thin well walls deliver maximum and consistent heat transfer
- White plates are optimized for qPCR by increasing sensitivity and reducing variability in fluorescence detection
- Cut corner: A24

AB-1384W

CERTIFICATIONS:
Certifed free from human DNA, RNases and DNases.

Color	Cat. No.	Pack of 50
Clear	**AB-1384**	301.50
For ABI 3730 Sequencer		
White	**AB-1384W**	388.00

Thermo Scientific™ Armadillo™ 384-well PCR Plates

Ultra-rigid 384-well PCR plates with poylcarbonate frame and polypropylene wells are designed for high throughput, robotic PCR and qPCR applications

AB-2384 Series

Armadillo PCR plates are the ultimate in high performance PCR plastics. Combining the rigidity of a polycarbonate frame with thin-walled polypropylene wells, the Armadillo plate provides superior thermal cycling performance under all conditions without warping.

The Armadillo PCR plates are available with clear or white wells for easy visibility of wells, and they feature thin-walled wells for optimal heat transfer.

- Optically clear skirt — Aids in visualization of liquids and improves stacking capabilities in automated handling systems
- Raised rim design — Improved well surface area improves seal integrity in automated heat sealing
- ANSI:SBS footprint — With rigidity of polycarbonate skirt, the ANSI footprint ensures complete compatibility with robotic systems for high-throughput applications
- Thermostable polycarbonate frame design — Warp-resistant thermal cycling and enhanced mechanical stability in robotic handling
- Thin walled U-bottom wells — Optimal heat transfer and maximum sample recovery
- Indented Alphanumeric Grid reference lettering — Integrated frame and well design for improved heat sealing
- Low profile design — Allows for maximum heat transfer and minimal evaporation when utilizing low-volume samples (30µL working volume)
- Available in both clear and white colored wells — Ensures the highest level of sensitivity for all PCR/qPCR reactions
- Barcoding available — All plates are available already barcoded and can be provided barcoded to customer specifications for fully-automated applications

APPLICATIONS:
PCR, qPCR and Real-Time PCR.

CERTIFICATIONS:
Certified free from human DNA, RNases, and DNases.

Skirt Color	Well Color	Mfr. No.	Cat. No.	Case of 50
Without Bar Code				
Clear	Clear	AB-2384	**AB-2384**	331.00
Blue	Clear	AB-2384/B	**AB-2384B**	331.00
Green	Clear	AB-2384/G	**AB-2384G**	320.00
Orange	Clear	AB-2384/O	**AB-2384O**	331.00
Red	Clear	AB-2384/R	**AB-2384R**	331.00
Yellow	Clear	AB-2384/Y	**AB-2384Y**	331.00
Clear	White	AB-3384	**AB-3384**	351.00
Blue	White	AB-3384/B	**AB-3384B**	351.00
Green	White	AB-3384/G	**AB-3384G**	351.00
Orange	White	AB-3384/O	**AB-3384O**	351.00
Red	White	AB-3384/R	**AB-3384R**	351.00
Yellow	White	AB-3384/Y	**AB-3384Y**	351.00
With Bar Code				
Clear	Clear	BC-2384	**BC-2384**	351.00
Blue	Clear	BC-2384/B	**BC-2384B**	351.00
Green	Clear	BC-2384/G	**BC-2384G**	351.00
Orange	Clear	BC-2384/O	**BC-2384O**	351.00
Red	Clear	BC-2384/R	**BC-2384R**	351.00
Yellow	Clear	BC-2384/Y	**BC-2384Y**	351.00
Clear	White	BC-3384	**BC-3384**	387.00
Blue	White	BC-3384/B	**BC-3384B**	387.00
Green	White	BC-3384/G	**BC-3384G**	387.00
Orange	White	BC-3384/O	**BC-3384O**	387.00
Red	White	BC-3384/R	**BC-3384R**	387.00
Yellow	White	BC-3384/Y	**BC-3384Y**	387.00

Axygen™ 384-Well PCR Half-Skirt Microplates

Optimized for MJ Research Cyclers

PCR products specifically designed for use within PCR thermal transfer and real time PCR applications. A variety of colors are offered to help organize multi-step PCR processes.

14-223-323

- 384-well PCR microplates
- Working volume is 50µL
- Optimized for MJ Research Cyclers
- Available in a variety of colors
- Compatible with ABI 3730/3100 and MJ Thermocyclers
- Sold 10 plates/unit; 5 units/Cs.

Description	Mfr. No.	Cat. No.	Each
Blue	PCR-384M2-B	**14-223-321**	480.96
Black	PCR-384M2-BK	**14-223-322**	510.25
Clear, Presterilized	PCR-384M2-C-S	**14-223-323**	555.63
Green	PCR-384M2-G	**14-223-324**	480.96
Orange	PCR-384M2-O	**14-223-325**	480.96
Red	PCR-384M2-R	**14-223-326**	480.96
Violet	PCR-384M2-V	**14-223-327**	480.96
White	PCR-384M2-W	**14-223-328**	481.56
Yellow	PCR-384M2-Y	**14-223-329**	480.96

Eppendorf™ twin.tec™ 384-Well PCR Plate

Unique, "twin-shot" process combines virgin polypropylene wells and polycarbonate plate deck and skirt in a one-piece plate

E9-510-207 Series

- Inert, nonwetting well surface prevents DNA, RNA and enzymes from binding and improves well recovery; raised rims optimize sealing and reduce cross-contamination
- Thin walls allow optimum heat transfer into the sample
- Autoclavable and stackable
- Rigid plates provide mechanical stability and improved plane parallelism
- Continuous skirt is compatible with automated systems and most 384-well thermal cyclers; skirt design aids plate positioning and removal from machinery

CERTIFICATIONS:
Certified free of human DNA, DNase, RNase and PCR inhibitors

Color	Well Volume	Mfr. No.	Cat. No.	Pack of 25
Clear	45µL	951020702	**E9-510-20702**	257.16
Blue	45µL	951020737	**E9-510-20737**	257.16
Green	45µL	951020729	**E9-510-20729**	257.16
Red	45µL	951020745	**E9-510-20745**	257.16
Yellow	45µL	951020711	**E9-510-20711**	247.27

Sealing Supplies

Thermo Scientific™ Adhesive PCR Foil Seal

Adhesive PCR plate foils provide an effective sealing method for PCR

Adhesive PCR Plate Seals are a reliable method of sealing plates for PCR applications. The high integrity sealing materials give the best protection against evaporation for high efficiency PCR.

Highlights

- Strong adhesive
- Pierceable with a pipet tip
- Leaves no adhesive buildup on tip
- Peelable
- Temperature range: -40° to +120°C

Description	Cat. No.	Each
ABsolute™ qPCR Seal	**AB1170**	135.00
Adhesive PCR Film	**AB0558**	153.50
Adhesive PCR Foil	**AB0626**	153.50

Thermo Scientific™ ALPS 25 Automated Laboratory Plate Sealer

Compact, portable, manual heat sealer ideal for low-to- medium-throughput applications

- Seals a wide range of plates of differing heights when supported by plate carriers; deep-well plates can be sealed without a carrier
- Sealer heating element is preset to produce permanent or peelable seals when used in conjunction with ABgene™ sealing foil or film sheets (sold separately)
- Built-in thermostat control prevents overheating
- For safety, the heating plate of the sealer faces downward
- Guaranteed for up to 100,000 sealings

AB-0384

ORDERING INFORMATION:
L × W × H: 6 × 6.25 × 13" (15.0 × 16.0 × 33.0cm).
Weight: 8 lb. (3.6kg).

CERTIFICATIONS:
CE marked

Electrical Requirements	Mfr. No.	Cat. No.	Each
110V	AB-0384	**AB-0384**	2280.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ ALPS 3000™ Automated Laboratory Plate Sealer

Plate protection diagnostics eliminate sample loss or damage

- Ideal for high-throughput applications
- Seals up to 10 plates per minute
- Suitable for manual operation or robotic integration
- Touchscreen operation with full parameter control for user simplicity
- Simplified sealing roll loading

ORDERING INFORMATION:
Electrical requirements: 120V. Air pressure requirements: 80psi. Minimum airflow requirement: 50L/min. L × W × H: 7.25 × 16.25 × 14.5" (18.5 × 41.4 × 36.9cm). Weight: 48 lb. (21.8kg).

REQUIRES: Sealing film sold separately.

AB-3000

CERTIFICATIONS: CE marked

Description	Mfr. No.	Cat. No.	Each
ALPS 3000 Automated Laboratory Plate Sealer	AB-3000	**AB-3000**	36,814.50

Tubes

Fisherbrand® 0.2mL Flat- and Domed-Cap PCR Tubes

With integral "snap shut" cap

- Suitable for 0.2mL thermal cycler blocks
- 0.25mL maximum volume when closed
- Thin-wall design
- Cleanroom produced
- Virgin polypropylene

14-230-200 Series

Color	Cat. No.	Case of 1000
With Flat Caps		
Natural	**14-230-225**	89.60
Blue	**14-230-227**	88.00
Green	**14-230-228**	88.00
Red	**14-230-226**	88.00
Yellow	**14-230-229**	88.00
With Domed Caps		
Natural	**14-230-205**	88.05
Blue	**14-230-207**	89.70
Green	**14-230-208**	88.05
Red	**14-230-206**	89.70
Yellow	**14-230-209**	88.05

Fisherbrand® 0.2mL PCR Tube Strips

Ideal for use in 0.2mL, 96-well V-bottom thermal cyclers

- 0.25mL maximum tube volume when capped
- Strips of eight tubes
- Can be cut into individual tubes
- Thin-wall design
- Cleanroom produced
- Virgin polypropylene
- Available with flat cap strips, domed cap strips or without cap strips

14-230-215, 14-230-211

Color	Cat. No.	Case of 250
With Flat Cap Strips		
Natural	**14-230-215**	316.00
Blue	**14-230-217**	312.00
Green	**14-230-218**	312.00
Red	**14-230-216**	312.00
Yellow	**14-230-219**	312.00
With Domed Cap Strips		
Natural	**14-230-210**	305.50
Blue	**14-230-212**	300.00
Green	**14-230-213**	300.00
Red	**14-230-211**	300.00
Yellow	**14-230-214**	300.00
Without Cap Strips		
Natural	**14-230-220**	291.50
Blue	**14-230-222**	281.50
Green	**14-230-223**	281.50
Red	**14-230-221**	281.50
Yellow	**14-230-224**	281.50

Fisherbrand® Flat and Domed 8-Cap Strips

Suitable for use with 96-well PCR plates and PCR tube strips

- Eight caps per strip
- Cleanroom produced
- Virgin polypropylene
- Flat caps offer large, labeled end tabs for easy removal and strip orientation

14-230-231, 14-230-230

Description	Color	Cat. No.	Case of 250
Flat Cap Strips	Natural	**14-230-230**	99.70
Domed Cap Strips	Natural	**14-230-231**	98.30

Thermo Scientific™ 0.2mL Individual Tubes

Individual tubes with attached flat or dome snap shut caps, available in a variety of colors

0.2mL Individual Tubes with integral "snap shut" caps are suitable for 0.2mL thermal cycler blocks. They have a 0.25mL maximum volume when closed. These individual tubes feature thin-wall design and are made from virgin polypropylene. The tubes are cleanroom produced, ensuring that they are free from contaminants that could affect experimental results. They are available in multiple colors with flat or domed caps.

AB-0337

Highlights

- Suitable for 0.2mL thermal cycler blocks
- 0.25 mL maximum tube capacity when closed
- Integral "snap-shut" cap
- Available with flat or domed caps

APPLICATIONS:
PCR; Sample storage

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases

Color	Mfr. No.	Cat. No.	Case of 1000
Flat Caps			
Clear	AB-0620	**AB-0620**	101.70
Blue	AB-0620/B	**AB-0620B**	101.70
Green	AB-0620/G	**AB-0620G**	101.70
Purple	AB-0620/P	**AB-0620P**	101.70
Red	AB-0620/R	**AB-0620R**	101.70
Yellow	AB-0620/Y	**AB-0620Y**	101.70
Assorted Colors	AB-0622	**AB-0622**	114.00
Domed Caps			
Clear	AB-0337	**AB-0337**	101.70
Blue	AB-0337/B	**AB-0337B**	101.70
Green	AB-0337/G	**AB-0337G**	101.70
Purple	AB-0337/P	**AB-0337P**	101.70
Red	AB-0337/R	**AB-0337R**	101.70
Yellow	AB-0337/Y	**AB-0337Y**	101.70
Assorted Colors	AB-0491	**AB-0491**	106.50

Thermo Scientific™ 0.5mL Individual Tubes

Individual tubes with snap-shut lids for PCR applications

0.5mL Individual Tubes feature a "snap shut" cap, which are available as either domed or flat caps. These tubes are compatible with 0.5mL thermal cycler blocks and can be used in PCR and sample storage applications.

AB-0350

Highlights

- Suitable for 0.5mL thermal cycler blocks
- 0.6mL maximum tube capacity when closed
- Integral "snap-shut" cap
- Available with flat or domed caps

APPLICATIONS:
PCR and sample storage.

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Color	Cat. No.	Case of 1000
Flat Caps		
Clear	**AB-0350**	93.30
Domed Caps		
Clear	**AB-0489**	92.40

ON THE WEB...

Looking for more PCR tubes?

Visit www.fishersci.com and search for PCR tubes

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Prices subject to change.

Thermo Scientific™ Low Profile Strip Tubes & Caps

Low-profile strip tubes and cap strips for PCR and qPCR applications

AB-0771

The low-profile design of the these tubes reduces the dead space between the heated lid of the thermal cycler and the sample. This eliminates condensation on the side wall of the tube, preventing reduction in PCR volume and increasing the efficiency of the reaction. Thermo Scientific low profile products are especially recommended for use with reaction volumes below 20µL.

Highlights

- Suitable for 0.2mL thermal cycler blocks
- 150µL maximum tube capacity when capped
- Low profile to reduce dead space and increase PCR efficiency
- Labelled A–H end tabs
- Ultra Clear caps are ideal for qPCR

APPLICATIONS:
PCR, qPCR and Real-Time PCR.

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

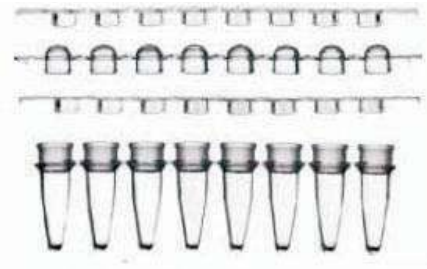
Closure	Color	Mfr. No.	Cat. No.	Price
Strips of 8; 10 Packs of 12				
Without caps	Natural	AB-0771	**AB-0771**	120/124.70
Without caps	White	AB-0771/W	**AB-0771W**	120/137.20
Domed	Natural	AB-0772	**AB-0772**	120/137.20
Flat	Natural	AB-0773	**AB-0773**	120/137.20
Without caps	Natural	AB-0774	**AB-0774**	250/276.00
Strips of 8; Pack of 250				
Domed	Natural	AB-0775	**AB-0775**	Pk. of 250/237.50
Flat	Natural	AB-0776	**AB-0776**	Pk. of 250/250.00
Domed	Assorted	AB-0777	**AB-0777**	Pk. of 250/279.00
Flat	Assorted	AB-0778	**AB-0778**	Pk. of 250/279.00
Ultra-Clear Domed	Clear	AB-1770	**AB-1770**	Pk. of 250/263.00
Ultra-Clear Domed	White	AB-1771	**AB-1771**	Pk. of 250/289.50
Strips of 12; 10 Packs of 8				
Without caps	Natural	AB-0847	**AB-0847**	Cs. of 80/160.10
Domed	Natural	AB-0848	**AB-0848**	Cs. of 80/192.10
Flat	Natural	AB-0849	**AB-0849**	Cs. of 80/192.10

Thermo Scientific™ 0.2mL Strip Tubes with Caps

PCR strip tubes available with domed, flat, or ultra clear caps for PCR and qPCR applications

These strip tubes are designed for PCR and qPCR applications.

- Suitable for 0.2mL thermal cycler blocks
- 0.25mL maximum tube capacity when capped
- 8 tube strips can be cut into individual tubes
- Ideal for use in 96-well V-bottom thermal cyclers
- Available with domed, flat, or ultra clear caps



AB-0264

APPLICATIONS:
PCR, qPCR and Real-Time PCR.

CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Cap	Color	Mfr. No.	Cat. No.	Case of
Strips of 8, 250 strips				
No cap	Natural	AB-0264	**AB-0264**	250/213.50
No cap	Blue	AB-0264/B	**AB-0264B**	250/220.50
No cap	Green	AB-0264/G	**AB-0264G**	250/211.00
Flat	Natural	AB-1182	**AB-1182**	250/276.00
Domed	Clear	AB-0266	**AB-0266**	250/276.00
Domed	Blue	AB-0266/B	**AB-0266B**	250/276.00
Domed	Green	AB-0266/G	**AB-0266G**	250/282.50
Domed	Purple	AB-0266/P	**AB-0266P**	250/285.00
Domed	Red	AB-0266/R	**AB-0266R**	250/285.50
Domed	Assorted Colors	AB-0490	**AB-0490**	250/328.00
Domed	Natural	AB-0451	**AB-0451**	120/135.70
Domed	Blue	AB-0451/B	**AB-0451B**	120/135.70
Domed	Green	AB-0451/G	**AB-0451G**	120/135.70
Domed	Purple	AB-0451/P	**AB-0451P**	120/135.70
Domed	Red	AB-0451/R	**AB-0451R**	120/135.70
Domed	Yellow	AB-0451/Y	**AB-0451Y**	120/135.70
Strips of 8, 10 packs of 12				
No cap	Natural	AB-0452	**AB-0452**	120/104.70
No cap	Blue	AB-0452/B	**AB-0452B**	120/104.60
No cap	Yellow	AB-0452/Y	**AB-0452Y**	120/103.00
Ultra Clear Cap Strips	Clear	AB-1183	**AB1183**	120/291.00
Ultra Clear Cap Strips	Opaque White	AB-1191	**AB1191**	120/144.60
Strips of 12, 10 packs of 8				
No cap	Natural	AB-1112	**AB-1112**	80/141.80
Domed	Natural	AB-1113	**AB-1113**	80/144.90
Flat	Natural	AB-1114	**AB1114**	80/144.90

Thermo Scientific™ Ultra Clear qPCR Cap Strips

qPCR Cap Strips for use with 96-well PCR plates or strip tubes

All our sealing products are designed to provide the ultimate protection while also being easy to use. Thermo Scientific qPCR sealing options are optically clear to deliver maximum and consistent signal transmission, critical for accurate qPCR results.

Thermo Scientific Ultra Clear qPCR Cap Strips have a highly polished flat surface, providing an optically clear window. The caps are molded from a specially formulated polypropylene that enhances signal detection by minimizing autofluorescense and maximizing transmission. The Ultra Clear qPCR Cap Strips are compatible with all ABgene PCR tube strips and 96-well PCR plates

Highlights

- 8-cap strip
- Compatible with all Thermo Scientific 96-well PCR plates as well as standard and low profile tube strips
- Specially formulated ultra clear polypropylene
- Highly polished
- Flat cap design

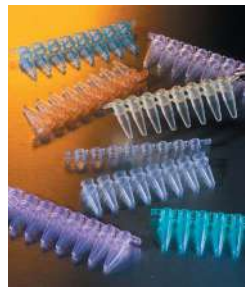
CERTIFICATIONS:
Certified free from human DNA, RNases and DNases.

Description	Color	Mfr. No.	Cat. No.	Case of
Strips of 8 Flat Caps	Ultra Clear	AB-0866	**AB-0866**	120/52.10

Costar™ 8-Well PCR Tube Strips

Thin-walled polypropylene strips fit precisely in thermal cyclers for optimal heat transfer

- Strips are formed of eight 0.2mL thin-wall polypropylene tubes
- Dual connectors between each tube eliminate inadvertent breakage during sample handling
- Tested and certified to be free of DNase and RNase contamination
- Nonsterile
- Autoclavable at 121°C



ORDERING INFORMATION: Cap strips are packaged together with tube strips.

07-200-259

Color	Mfr. No.	Cat. No.	Case of 300
Natural	6542	**07-200-259**	465.32
Assorted	6547	**07-200-264**	465.32

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Costar™ PCR Tubes

Thin-walled polypropylene provides fast heat transfer

- Withstands centrifugation to 10,000 × g
- Each lot tested and certified to be RNase- and DNase-free
- Clear color; Nonsterile
- Autoclavable at 121°C (250°F)

07-200-681

Tube Size	Cap Style	Mfr. No.	Cat. No.	Case of
0.2mL	Dome	6531	**07-200-493**	960/146.63
0.2mL	Flat	6571	**07-200-681**	960/118.39
0.5mL	Flat	6530	**07-200-252**	1000/82.31

Eppendorf™ Thin-Walled PCR Tubes

Precise tolerance, high transparency, and tight sealing

- Can be used in most thermal cyclers with heated lids

E0030-124-260

Description	Mfr. No.	Cat. No.	Case of
Individual 0.2mL PCR Tubes	951010006	**E0030-124-260**	1000/160.16
Individual 0.5mL PCR Tubes	951010057	**E0030-124-600**	500/68.75

Cleanup

Eppendorf™ PCR Clean Microcentrifuge Tubes

Choose from Safe-Lock or Flex-Tube™ styles — both are ideal for DNA sample prep prior to PCR

- Polypropylene; rated to 25,000 × g
- Safe-Lock tubes feature a lid-lock that closes securely
- Flex-Tube tubes are easy to open and close
- With volume graduations and etched marking surfaces
- Certified free of human DNA, DNase, RNase and PCR inhibitors
- Manufactured under cleanroom conditions

05-402-90 Series

Capacity	Mfr. No.	Cat. No.	Pack of 500
Safe-Lock Tubes			
0.5mL	22 36 371-9	**05-402-93**	80.93
1.5mL	22 36 321-2	**05-402-94**	77.53
2.0mL	22 36 334-4	**05-402-95**	80.96
Flex-Tube Tubes			
1.5mL	22 36 412-0	**05-402-96**	49.92

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Prices subject to change.

Photodocumentation

Autoradiography Cassettes

GE Healthcare Amersham™ Hypercassette™ Autoradiography Cassette

Robust, chip-proof autoradiography cassettes for light-tight exposures at temperatures to -70°C

- Provide maximum contact between film and sample
- Nonporous pad gives a wipe clean surface, ensuring minimum contamination

Amersham Casette Series

Color	L × W	Mfr. No.	Cat. No.	Each
Standard depth				
Neutral	9.5 × 12"	RPN11643	**45-000-752**	333.30
Neutral	5 × 7"	RPN11648	**45-000-757**	255.20
Neutral	8 × 10"	RPN11649	**45-000-758**	313.50

Carestream™ BioMax™ Autoradiography Cassettes

Maximize image resolution and background clarity by ensuring intimate contact between the film and sample in a light-tight environment

- Available with or without BioMax or TranScreen™ intensifying screen
- BioMax MS and TranScreen HE intensifying screens offer maximum sensitivity for 32P and 125I

Maximum Film Size	Mfr. No.	Cat. No.	Each	Case of 5
Cassette Only				
8 × 10" (20 × 25cm)	8209140	**05-728-15**	581.62	3017.99
Cassette with BioMax MS Intensifying Screen				
8 × 10" (20 × 25cm)	8750499	**05-728-17**	967.82	5010.74

Intensifying Screens

GE Healthcare Amersham™ Hyperscreen™ Intensifying Screen

Offers rapid results and high sensitivity for detecting ^{32}P and ^{125}I in Southern, Northern and Western blots

- Light emission from calcium tungstate phosphor is fully compatible with Hyperfilm™ MP
- Use with Sensitize™ Pre-Flash Unit for even higher sensitivity and accurate quantitation
- Fine grain screens give clear band resolution

Screen Size	Quantity	Mfr. No.	Cat. No.	Each
8 × 10"	1 pair	RPN1669	**45-000-820**	313.50

Carestream™ BioMax™ MS Autoradiography Intensifying Screens

Conventional format intensifying screens for maximum sensitivity in detection of higher energy radioisotopes such as ^{32}P and ^{125}I

- Four to eight times faster than other autoradiography screens
- Available in two formats
- Intensifying screen only
- With BioMax cassette (see 05-728-17 and 05-728-16)

05-728-19

Screen Dimensions	Mfr. No.	Cat. No.	Each	Case of 5
8 × 10" (20 × 25cm)	8518706	**05-728-23**	455.62	2362.15
14 × 17" (35 × 43cm)	8981706	**05-728-22**	1216.09	6297.33

Carestream™ BioMax™ TranScreen™ LE Autoradiography Intensifying Screens

Novel, patented intensifying screen designed for ^{3}H, ^{14}C, ^{33}P, ^{35}S, ^{45}Ca and ^{59}Fe

- Achieve a 0.301 O.D. image five or more times faster than direct autoradiography
- Offer greater resolution (2X) in the same time with equal or better sensitivity as BioMax XAR/ calcium tungstate intensifying screen systems, when used with 32P and 125I

ORDERING INFORMATION:
Available in two formats: Intensifying screen only; or with BioMax cassette (see 05-728-65).

Screen Dimensions	Mfr. No.	Cat. No.	Each
8 × 10" (20 × 25cm)	1622034	**05-728-67**	477.65

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Film

GE Healthcare Amersham™ Hyperfilm ECL

Superior contrast and improved band visibility

45-001-504

- Antistatic coating reduces risk of visible artifacts
- Clear base offers high contrast for easy reading of images
- Suitable for use with all blue and green light chemiluminescent systems
- Film can be processed in automatic processors or manually using most common X-ray film developers and fixers

APPLICATIONS: Chemiluminescent detection in Western, Southern and Northern blots

Film Size	Sheets/Box	Mfr. No.	Cat. No.	Each
7 × 9.5"	50	28-9068-36	**45-001-505**	277.20
5 × 7"	50	28-9068-35	**45-001-504**	236.50
8 × 10"	50	28-9068-38	**45-001-507**	279.40

GE Healthcare Amersham™ Hyperfilm™ MP

Provides superior contrast and improved band visibility

- Coated with emulsion on both sides to ensure optimum sensitivity
- Suitable for detection of ^{3}H, ^{14}C, ^{32}P, ^{33}P, ^{35}S, ^{125}I in direct or indirect autoradiography
- Clear base offers high contrast for easy reading of images

APPLICATIONS: ^{32}P, ^{33}P, ^{125}I Southern, Northern and Western blots; ^{32}S, ^{33}P, ^{350}P sequencing; Fluorography of ^{3}H, ^{14}C and ^{35}S

Film Size	Sheets/Box	Mfr. No.	Cat. No.	Each
5 × 7"	50	28-9068-42	**45-001-511**	242.00
8 × 10"	50	28-9068-45	**45-001-514**	267.30
7 × 9.5"	100	28-9068-44	**45-001-513**	488.40
14 × 17"	50	28-9068-48	**45-001-517**	640.20

Carestream™ BioMax™ Light Film

Developed specifically for the detection of chemiluminescent probes

05-728 Series

- Produces high signal-to-noise ratio
- Coated on both sides of a clear base
- Can be used for direct autoradiography and intensifying screen exposures with commonly used isotopes, but requires longer exposure times than BioMax MS and BioMax XAR™ film
- Suitable for manual and automated processing

NOTES: Carestream autoradiography and electron micrography films should be handled under proper safelight conditions using the Carestream Dark Room Illuminator (Mfr. No. 1132752).

Film Size	Sheets/Box	Mfr. No.	Cat. No.	Each	Case of 5
Bulk-packaged Film					
5 × 7" (13 × 18cm)	50	8689358	**05-728-47**	662.94	3074.70
8 × 10" (20 × 25cm)	50	1788207	**05-728-55**	898.60	4129.48
7 × 9.5" (18 × 24cm)	50	8194540	**05-728-48**	762.61	3536.45
ReadyPacked Film					
5 × 7" (13 × 18cm)	50	1917012	**05-728-53**	1160.86	5093.19
8 × 10" (20 × 25cm)	50	8761520	**05-728-52**	1255.21	5480.88

Carestream™ BioMax™ MR (Maximum Resolution) Film

Recommended for direct autoradiography of weak and medium energy ß-radioisotopes, such as ^{35}S,^{33}P and ^{14}C

05-728-24

- Ideal for the detection of sequencing gels
- Coated on only one side of a clear base
- Utilizes patented "T-grain" technology, which provides a two- to four-fold increase in sensitivity for direct autoradiography when compared to other films
- Improves detection of low-intensity bands
- Provides enhanced resolution and exceptional clarity
- Also provides excellent resolution for 32P and 125I, although it offers lower sensitivity than BioMax MS film
- Suitable for manual and automated processing

Film Size	Sheets/Box	Mfr. No.	Cat. No.	Each	Case of
Bulk-packaged Film					
5 × 7" (13 × 18cm)	50	8941114	**05-728-26**	757.78	5/3700.08
8 × 10" (20 × 25cm)	50	8701302	**05-728-24**	1047.72	5/4949.73
9.5 × 12" (24 × 30cm)	50	8912560	**05-728-29**	1435.60	5/6273.45
14 × 17" (35 × 43cm)	50	8715187	**05-728-25**	2880.21	5/12,609.77
ReadyPacked Film					
8 × 10" (20 × 25cm)	50	8952855	**05-728-31**	1204.02	5/5948.87
14 × 17" (35 × 43cm)	50	8567232	**05-728-32**	3729.94	2/6534.13

Carestream™ BioMax™ MS (Maximum Sensitivity) Film

Ideal for use with radioisotopes when detection of low-intensity samples or reduction of exposure times is required

05-728-1

Use for detection of Northern, Southern and dot blotting applications. Suitable for manual and automated processing.

- Coated on both sides of a clear base with an advanced technology "T-grain" emulsion
- When used in conjunction with BioMax MS or TranScreen™ HE intensifying screens, film provides the fastest and most sensitive system for the detection of ^{32}P and ^{125}I radioisotopes (4 to 8 times faster than any other filter/screen combination)
- When combined with TranScreen LE intensifying screen, film provides similar speeds to BioMax XAR™ with a calcium tungstate screen, but with significantly greater resolution
- When used with TranScreen LE, film offers the fastest system for the detection of 35S, 14C, 45Ca, 33P, 59Fe and even 3H radioisotopes ((5 times faster)

NOTES: May be used with other intensifying screens; however, maximum sensitivity is achieved using BioMax screens.

Film Size	Sheets/Box	Mfr. No.	Cat. No.	Each	Case of 5
Bulk-packaged Film					
5 × 7" (13 × 18cm)	50	1111681	**05-728-3**	776.36	3405.88
7 × 9.5" (18 × 24cm)	50	8222648	**05-728-4**	264.01	1320.05
8 × 10" (20 × 25cm)	50	8294985	**05-728-1**	988.47	4972.32
14 × 17" (35 × 43cm)	50	1435726	**05-728-2**	2501.67	10,952.59
ReadyPacked Film					
8 × 10" (20 × 25cm)	50	8377616	**05-728-8**	1490.65	6070.21

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ CL-XPosure™ Film (X-Ray Film)

An affordable, high quality X-ray film for ECL detection

CL-XPosure Film is an excellent phototgraphic film for use with enhanced chemiluminescence (ECL) substrates for horseradish peroxidase (HRP) or alkaline phosphatase (AP). Convenient sizes are offered for protein Western blotting, standard film cassettes and film developing equipment. The autoradiography film also works well for chemiluminescent or isotopic DNA and RNA methods, including Southern and Northern blotting and gel-shift assays (EMSA). The quality and price of this film make it the smart choice for life science research applications.

ORDERING INFORMATION: Available in 5 × 7", 7 × 9.5", 9.5 × 11", or 14 × 17" sheets and additional pack sizes. See www.fishersci.com for more choices

PI-034090

Item Name	Quantity	Cat. No.	Each
CL-XPosure Film, 5 × 7in. (13 × 18cm)	Pk. of 100	**PI-34090**	138.03
CL-XPosure Film, 7 × 9.5in. (18 × 24cm)	100 sheets	**PI-34089**	186.74
CL-XPosure Film, 8 × 10in. (20 × 25cm)	100 sheets	**PI-34091**	235.40
CL-XPosure Film, 9.5 × 11.8in. (24 × 30cm)	100 sheets	**PI-34097**	244.76
CL-XPosure Film, 14 × 17in. (35 × 40cm)	100 sheets	**PI-34099**	474.75

Systems

Fotodyne™ FOTO/Analyst™ Apprentice System

Combines a digital camera with a photographic hood for affordable digital imaging and documentation

Hood mount camera systems are ideal for small labs with routine sample sizes as well as for teaching labs.

14-700-100

- Economically capture images of gels, membranes (X-Ray autorad film) and petri plates; Systems are also capable of imaging with blue light (GFP, SYBR Green/Safe)
- Fast and easy wireless connection to PC or Macintosh™ computer for image archiving or analysis, or bypass the computer and wirelessly connect directly to optional photo printer; USB cable also included for wired connection
- Choose small (13.5 × 14.5cm) hood with a maximum subject dimension of 13.2 × 14.2cm or large (22 × 29cm) hood with a max. subject dimension of 21.5 × 28.5cm
- Compatible with Windows™ XP, 7 and 8
- Optional 5" LCD monitor provides easy-to-view preview of samples
- Hoods designed to work with a wide variety of transilluminators, both FOTODYNE and non-FOTODYNE models

INCLUDES: Megapixel digital camera with mount, instruction manual; choice of photographic hood; filter adapter and close-up adapter; UV blocking mat; 4MB memory card; AC adapter; USB cable; lithium batteries; Quick reference guide for gel documentation. For more information, go to www.fishersci.com

Description	Mfr. No.	Cat. No.	Each
System w/ FOTO/Phoresis UV Transilluminator	6-4135	**FD64135**	3380.00
Digital Camera System w/Ethidium Bromide Filter	6-4001	**14-700-100**	1957.00
Fluorescent Green Photo/Phoresis Transilluminator	6-4035	**14-700-106**	2870.00
Fluorescent Green FOTO/UV 26 Transilluminator	6-4450	**14-700-114**	3626.23

UVP™ BioDoc-It™ 220 Imaging Workstations

Dedicated system for gel documentation and fluorescent imaging

UVP97-0183-01

Quickly and easily capture and save detailed publication quality images with a touch of the screen. The systems feature:

- Scientific grade 1.3 megapixel CCD camera and 8-48mm zoom lens configuration enables fast, superior image quality
- 8" LCD touchscreen technology promotes ease of use
- Intuitive software increases capture simplicity
- Side access doors allow users to cut or move gels without opening the front door
- USB drive allow for quick storage of captured images

INCLUDES: 8-bit monochrome CCD camera; Large 8" LCD viewing screen for live preview of gels; USB stick; Compact 3-door darkroom with overhead white light, wide access door and unique UV-blocking gel viewer window; choice of single- or multiple-wavelength UV transilluminators; easily accessible filter tray for quick exchange of Ethidium Bromide filters See www.fishersci.com for more details.

Specifications	
Mono/Color	Monochrome
Pixel Resolution	1280 x 1024
Megapixels	1.3
PC Interface Connection	USB 2.0
Lens	8-48mm zoom lens

BioDoc-It 220 Models	Filter Area	Electrical Reqts.	Cat. No.	Each
With Single UV (302nm, High/Low Intensity) Transilluminator				
BioDoc-It 220	20 × 20cm	115V 60Hz	**UVP97-0182-01**	10,000.00
BioDoc-It 220	21 × 26cm	115V 60Hz	**UVP97-0183-01**	10,801.80
With 2UV (302/365nm) Transilluminator				
BioDoc-It 220 (w/LM-20E)	20 × 20cm	115V 60Hz	**UVP97-0174-01**	10,810.00
BioDoc-It 220	21 × 26cm	115V 60Hz	**UVP97-0175-01**	11,026.20
With 3UV (254/302/65nm) Transilluminator				
BioDoc-It 220	20 x 20cm	115V 60Hz	**UVP97-0176-01**	11,281.20
BioDoc-It 220	21 × 26cm	115V 60Hz	**UVP97-0177-01**	11,505.60

UVP™ DigiDoc-It™ Imaging Systems

Economical gel imaging systems with digital color camera, compact hood, high-performance transilluminator, capture software and sample viewer

- Camera-hood system provides low cost image acquisition and documentation of gels, plates and membranes
- Combines high megapixel digital color camera and compact hood enclosure
- Hood with viewport fits on top of UVP's High Performance UV transilluminator
- Uses your existing computer with Doc-It™ capture software on supplied CD
- High-quality images with low-light capability
- Software enables image capture, complete camera control, enhancement, annotation and archiving of digital images for publication or quantitative analysis
- Model without transilluminator is compatible with optional Drawer (UVP98006801)and Benchtop UV Transilluminators

INCLUDES:
Digital camera, with 55mm Ethidium bromide filter, USB interface; Doc-It Capture Software on CD-ROM; Hood enclosure; High-performance 25w UV transilluminator (UVP97010501 is compatible with a variety of UVP benchtop transilluminators).
See www.fishersci.com for more details.

UV97024401

Transilluminator Supplied	Cat. No.	Each
100-115V Models		
None	**UVP97010501**	4630.00
TFM-20V, 20 × 20cm filter, 302nm UV	**UV97024301**	6343.04
TFM-26V, 21 × 26cm filter, 302nm UV	**UV97024401**	6615.52
TFM-30V, 25 × 30cm filter, 302nm UV	**UV97024601**	6870.00

UVP™ PhotoDoc-It™ Imaging Systems

Economical and compact photodocumentation systems capture color images for basic gel documentation

- Contains high resolution megapixel color camera
- Compact, lightweight hood enclosure creates a darkroom environment
- Combination lock secures camera to the hood
- UV transilluminators contain single or multiple wavelengths and 20 × 20cm or 21 × 26cm filter sizes
- Generate lab quality 4 × 6" prints with mini color printer provided, includes 108 sheets
- Can be connected to a computer for transfer of images
- View gels through the gel viewer window
- Add optional video screen for viewing gels prior to printing the images

INCLUDES: Digi Camera, PhotoDoc-It hood, Ethidium Bromide filter, color printer; UV transilluminator (except UVP97027401), combination lock

UVP97027401

Description	Transilluminator UV Wavelength, Filter Area	Electrical Requirements	Mfr. No.	Cat. No.	Each
PhotoDoc-It System w/No Transilluminator	---	100-115V	97-0274-01	**UVP97027401**	3030.00
PhotoDoc-It System w/M-20 Transilluminator	302nm, Variable Intensity, 20 × 20cm	100-115V	97-0274-04	**UVP97027404**	4960.00
PhotoDoc-It System w/M-26 Transilluminator	302nm, Variable Intensity, 21 × 26cm	100-115V	97-0274-10	**UVP97027410**	4623.67
PhotoDoc-It System w/LM-20E Transilluminator	302/365nm, 20 × 20cm	100-115V	97-0274-07	**UVP97027407**	4421.47
PhotoDoc-It System w/LM-26E Transilluminator	302/365nm, 21 × 26cm	100-115V	97-0274-13	**UVP97027413**	4980.00

UVP™ GelMax™ Imager

View, capture, analyze and document precast and mini-gel data

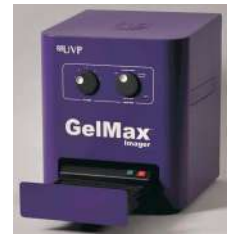
GelMax UVPCPQ8700

- Fast, easy imaging of wide range of precast and mini gels up to 11.5 × 16cm
- Includes darkroom with color camera, epi white light, 302nm UV transilluminator, black plate and Doc-It™ LS acquisition, quantitative analysis software
- White Light plate for viewing protein gels such as Coomassie Blue and Silver stains
- Visi-Blue™ plate emits 460-470nm blue light for viewing stains such as SYBR Green, SYBR Safe and GelGreen
- Compact design reduces lab space requirements
- Safety switch shut off of transillumination lighting after 10 minutes or with open drawer

GelMax UVP970672-0

- Fast, easy imaging of wide range of precast and mini gels up to 11.5 × 16cm
- Includes darkroom with color camera, epi white light, 302nm UV transilluminator, black plate and Doc-ItLS acquisition, quantitative analysis software
- Compact design reduces lab space requirements
- Safety switch shut off of transillumination lighting after 10 minutes or with open drawer

ORDERING INFORMATION:
Sample Visi-Blue™ and White Light, Converter Visi-Blue™ and White Light, Longwave 365nm plates and Plate Holders are also available separately. Computer/monitor not included but available separately



UVPCPQ8700

Specifications	
Camera	Color; 15.1 Megapixels
Dimensions	15.5H × 12.8W × 13D" (394 × 325 × 330mm)
Light Source	Epi: White
Filter [Type]	5-position tray, rotary knob controlled; EtBr filter included;additional filters available
Software	Acquisition and analysis (compatible with Win 7, XP, Vista)
Transilluminator	Built-in 302nm UV, 11.5 × 16cm plate size

Description	Mfr. No.	Cat. No.	Each
Imager With Free Visi-Blue and White Light plates	CPQ-8700	**UVPCPQ8700**	8749.85
Imager W/O Free Visi-Blue or White Light plates	97-0672-01	**UVP97067201**	8749.85

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fotodyne™ FOTO/Analyst™ Investigator/FX Workstations with Motorized Zoom Lens, Dual Wavelength†

Features transillumination and epi-illumination with a variety of emission options: multi-wavelength UV, white, blue, red and green

- Acquire, print and store photos of DNA and protein gels, microassay plates, fluorescent and colorimetric blots, TLC plates, bacterial plates and more
- Files can be archived in several formats to preserve data integrity for downstream analysis
- Workstation can be networked to make files more accessible
- Hands-free, motorized zoom lens allows the camera lens and darkroom to be controlled through user-friendly software
- System is designed to be easily upgraded to include a cooled CCD camera for low-light samples (e.g., chemiluminescent Western blots)

Investigator FX Series

Choose Your Transilluminator

- Investigator/FX workstations accommodate our standard size or large-format transilluminators. Select single wavelength UV, single wavelength dual light (UV plus white light), dual wavelength UV, or dual wavelength dual light. UV wavelength choices include 254 nm (short), 312 nm (mid) and 366 nm (long)

INCLUDES:
11.5-69mm (6X) motorized zoom lens, motorized filter wheel, choice of CCD camera, choice of transilluminator, FOTO/FX darkroom with dual white-light and optional UV and RGB epi-illumination, image acquisition software, Coomassie™ Blue filter (dual-light workstations only), optional thermal printer, all necessary cables and connectors

†Also available as a single lens model. For more info see www.fishersci.com.

		With Thermal Printer			Without Thermal Printer		
Camera	**Viewing Area**	**Mfr. No.**	**Cat. No.**	**Each**	**Mfr. No.**	**Cat. No.**	**Each**
Dual-wavelength UV Transilluminator							
12-bit, 2.0 megapixel	21 × 26 cm	7-1560S2UV	**F7-1560S2UV**	12,648.69	7-1520S2UV-NP	**7-1520S2UV-NP**	10,450.00
					7-1560S2UV-NP	**7-1560S2UV-NP**	11,335.76
Dual-wavelength UV, Dual-light Transilluminator							
12-bit, 2.0 megapixel	21 × 26 cm	7-1560S2DL	**F7-1560S2DL**	13,488.92	7-1520S2DL-NP	**7-1520S2DL-NP**	11,335.76
					7-1560S2DL-NP	**7-1560S2DL-NP**	12,176.05

Fotodyne™ FOTO/Analyst™ ImageTech Eclipse WorkStations

Space-saving imaging workstation lets you capture digital gel images of DNA gels (ethidium bromide), protein gels (Coomassie Blue, Ponceau Red), petri plates and autorad X-Ray film (blots/membranes) — all without the need for a separate computer, keyboard or mouse

- Small footprint
- No computer required
- User-friendly touch-screen interface; can be used with or without gloves; no stylus required
- Save to USB drive or network
- Scientific grade CCD camera with zoom lens and exposure control in 0.1 sec. increments
- Camera includes support mount and USB 2.0
- Speedy throughput
- Customizeable solutions with or without a printer and choice of transilluminator and camera. For more options, see Fishersci.com
- UV Single Wavelength (312nm)
- UV Dual Wavelength (312 and 366nm)
- Dual Light Single Wavelength (312nm UV, white light)
- Dual Light Dual Wavelength (312 and 366nm UV, white light)

FOTO/Analyst ImageTech System

APPLICATIONS:
Great for contamination controlled applications, QC and teaching labs.

INCLUDES:
CCD camera with manual zoom lens (three options), FOTO/Eclipse benchtop darkroom, Touchscreen monitor with gel capture interface, Choice of transilluminator (UV or Dual Light), Photographic filter: fluorescent red (all workstations), Coomassie Blue (dual light workstations only), Portable USB drive, Cables

Description	Mfr. No.	Cat. No.	Each
0.4 mp Camera, base system	6-9010	**F69010**	6750.00
2.0 mp Camera, base system	6-9030	**F69030**	8450.00
UV Single Wavelength			
0.4 mp Camera, without printer	6-9010UV-NP	**F69010UVNP**	8300.70
2.0 mp Camera, without printer	6-9030UV-NP	**F69030UVNP**	10000.00
UV Dual Wavelength			
0.4 mp Camera, without printer	6-9010S2UV-NP	**F69010S2UV-N**	9000.00
1.4 mp Camera, without printer	6-9020S2UV-NP	**F69020S2UV-N**	10,000.00
Dual Light Single Wavelength			
0.4 mp Camera, without printer	6-9010DL-NP	**F69010DLNP**	9100.00
1.4 mp Camera, with printer	6-9020DL	**F69020DL**	11,450.00
Dual Light Dual Wavelength			
0.4 mp Camera, without printer	6-9010S2DL-NP	**F69010S2DL-N**	9800.00
1.4 mp Camera, without printer	6-9020S2DL-NP	**F69020S2DL-N**	10,800.00
2.0 mp Camera, without printer	6-9030S2DL-NP	**F69030S2DLN**	11,500.00

Thermo Scientific™ myECL™ Imager

One-touch image capture and analysis for protein and nucleic acid gels and blots

The myECL Imager revolutionizes image acquisition of protein and nucleic acid blots and gels detected via chemiluminescent, colorimetric or UV light-activated fluorescent substrates or stains. The compact benchtop instrument uses UV and visible light transillumination, specialized filters and advanced CCD camera technology to capture images with high sensitivity and dynamic range. The large, 10.4-inch touchscreen and on-board computer provide an elegant user-interface to program acquisition settings and manage (store and share) image files. Also included with the instrument is a five-computer license for the Thermo Scientific myImageAnalysis™ Software, a complete and powerful analysis tool.

Highlights:

- One-touch image acquisition — press any one of several optimized presets in each mode and the imager does all the rest; no focusing or camera settings need to be adjusted
- Multi-exposure feature — automatically capture a series of images using up to five different preset or user-defined exposure times
- Automatic visible image capture — system automatically takes a corresponding visible image with every chemiluminescent image exposure; allows overlay alignment with prestained MW markers
- Remote Tech Support access — share your myECL Imager screen in a live session with Technical Support to receive immediate help while using the instrument
- Live camera setting — in any mode see a live view of the illuminated platform on the display screen while the door is open so you can place and center the sample
- Shoot-and-review convenience — imager keeps the last five captured images immediately available in on-screen tabs so you can quickly review, compare, choose and make adjustments to results
- Interactive Chemi — automatically calculates the exposure time of a Western blot with maximum dynamic range and minimal pixel saturation from a short, 15-second exposure image
- File manager — easily copies, deletes, exports and edits image information of one or more image files in multiple gallery folders
- Create dark and bias images — creates new dark and bias master files to compensate for noise coming from the CCD camera during image acquisition
- Adjust image — adjust the black, white and gamma levels of acquired images to increase sample visibility
- Intensity display — select a point of interest on the acquired image to view the pixel intensity and pixel coordinates of the corresponding region

APPLICATIONS:
Chemiluminescent Western blots (ECL substrates); Stained protein gels (coomassie, silver, UV light-excited fluorescent stains); Chemiluminescent nucleic acid blots (e.g., EMSA and Southern blotting using biotin probes, streptavidin-HRP and ECL substrates); Stained nucleic acid gels (ethidium bromide and other UV light-excited fluorescent stains)

Thermo Scientific myECL Imager

INCLUDES: The myECL Imager ships equipped with 306nm bulbs in the UV transilluminator and the Orange Filter installed in Filter Position 2 (necessary for ethidium bromide and SYPRO™ Orange stains). Also included are the following accessories: Chemiluminescence Exposure Screen, White Light Conversion Screen, UV Exposure Screen, Imaging Reference Target, Touchscreen Stylus with Holder, 2 GB USB Flash Drive, User Manuals and Quick Start Guides. Each imager purchase also includes a five-computer network license for the myImage Analysis Software.

Hardware Specifications:	
CCD Camera	16-bit, 4.2 megapixel; thermoelectrically regulated at -25°C (±0.1)
Lens	50mm, f/0.95
Array size (pixels)	2048 × 2048
Pixel size	7.4 × 7.4µm
Field of view	15.0 × 15.0cm
Dynamic range	>4.0 orders of magnitude
Binning modes	1 × 1, 2 × 2, 3 × 3 (default), 4 × 4, 8 × 8
Image capture modes	Chemiluminescence, UV transilluminator, epi-white light
Image exposure modes	Automatic or manual
Image file format	TIFF (16-bit grayscale)
Excitation source	306nm UV transilluminator; Epi-white light
Filter wheel	Motorized, 4 position
Computer	Internal with 250 GB hard drive†
Touchscreen display	10.4-inch LCD
Ports	3 USB, 1 network
Instrument size, L × W × H	56 × 31 × 53cm (22 × 12.2 × 21in.)
Weight	29.5kg (65 lb.)

†Approximately 200 GB are available for storage of acquired images, providing storage for more than 200,000 image files captured using the default image acquisition setting (3 × 3 binning).

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
myECL Imager	1 unit	Image capture and analysis of chromogenic, chemiluminescent and UV-excited fluorescent blots and gels	Benchtop instrument with accessory kit	Instrument (56 × 31 × 53cm), myECL Imager Manual, 1 CD, myECL Imager Quick Start Guide, Chemiluminescence Exposure Screen, 1 screen, White Light Conversion Screen, 1 screen, UV Exposure Screen, 1 screen, Touch Screen Stylus and Holder, 1 each, Imaging Reference Target, 1 target, Power Cord with C/13 Connector, 1 device, USB Flash Drive, 2GB, 1 device, myImage Analysis Software, 1 CD (5 licenses)	**PI62236**	33,628.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

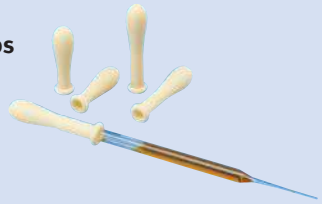
Pipet Fillers

Bulbs

Fisherbrand® Bulbs for Small Pipets

Flexible, easy-to-attach bulbs

- For medicine droppers and small pipets
- Amber latex
- Dry natural rubber



03-448 Series

Capacity	Length	Color	Cat. No.	Each
1mL	38mm (1.5")	White	**03-448-21**	67.42
2mL	57mm (2.25")	Amber	**03-448-22**	69.62
2mL	----	Amber	**03-448-24**	30.77
2mL	----	Red	**03-448-27**	24.49

Fisherbrand® Heavy-Duty Rubber Bulbs for Small Pipets

Ideal for gas sampling or for pumping gas through apparatus

- Two rubber valves with PVC connections
- Capacity: 85mL

03-448-34

ORDERING INFORMATION:
Not supplied with tubing.

Description	Cat. No.	Each
Black Bulb	**03-448-34**	22.00

Fisherbrand® Dropper Bulbs for Pasteur Pipets

Made of natural blue rubber

03-448 Series

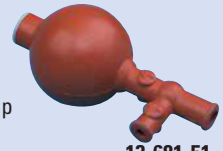
Designed for use with Pasteur pipets, small-volume pipets and medicine droppers.

For Pipets up to	Opening Diameter	Length	Cat. No.	Pack of 24
1mL	0.27" (6.7mm)	1.13" (28mm)	**03-448-25**	25.76
3mL	0.28" (7mm)	1.6" (41mm)	**03-448-26**	47.10

Fisherbrand® Rubber Bulb-Type Safety Pipet Fillers

Tough 100% natural rubber patented pipet fillers eliminate mouth pipetting and handling of hazardous materials

Two stainless-steel ball valves control vacuum for precise pipet filling and liquid delivery with one hand.



13-681-51

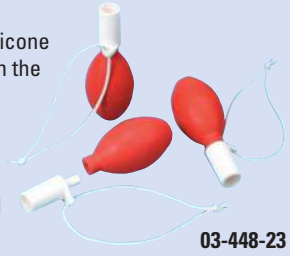
- Expel air by squeezing bulb, then draw up liquid by pressing valve "↑" on stem
- To release, press valve "↓" on side of stem
- Fit pipets with O.D. ranging from 0.187 to 0.375" (4.5 to 9mm)
- Flip style pipet filler enables one-handed bulb operation and removal of top white cap to clean out the bulb from inside

Color	Cat. No.	Each	Case of 72
Red	**13-681-51**	59.09	4254.31
Black	**13-681-50**	59.09	4254.31

Fisherbrand® Safety Bulb Pipet Filler

Fits any size pipet; does not attach to pipets

Red rubber bulb attaches to white polypropylene piece with conical silicone adapter that fits small pipets through the largest volumetrics.



03-448-23

- Just squeeze bulb and touch to pipet to form a seal
- Let suction draw fluid, then lift bulb away and control fluid level with index finger
- Attaching a pipet does not require twisting bulb — minimizes the possibility of pipet breakage
- Autoclavable

INCLUDES:
Handy elastic band for hanging on wrist or reagent bottle

Color	For Pipets up to	Cat. No.	Pack of 3
Red	14.8mL	**03-448-23**	45.78

Fisherbrand® Silicone Bulb-Type Safety Pipet Fillers

Chemical-resistant, resilient, silicone pipet fillers with glass valves improve worker safety

Eliminate mouth pipetting and handling of hazardous materials. Long-lasting silicone is highly resistant to organic solvents.

- Fill and dispense pipets with one hand
- First expel air by squeezing valve "1" above bulb
- Then draw up liquid by pressing valve "2" on stem
- To release, press valve "3" on side of stem

13-681-102A

ORDERING INFORMATION:
Fit pipets with O.D. ranging from 0.187 to 0.375" (4.5 to 9mm)

Color	Cat. No.	Each
Red	**13-681-102A**	31.13
Black	**13-681-102B**	32.22

Manual Fillers

Fisherbrand® Pipet Filler

Lightweight pipet filler sits comfortably in the hand

Aspirate and pipet liquid samples with precise control. To use, simply squeeze the air out of the silicone bulb, then use the thumb lever to control the aspirate and delivery speeds.

- Mini button blows out the last drop of liquid from pipet when pipetting — ideal for use with blow-out pipets
- Silicone pipet holder is autoclavable and accommodates pipets from 1 to 100mL
- 0.45µm replaceable, nonsterile membrane filter prevents liquid from entering the unit

Cat. No.	Each
03-692-35	99.15

Fisherbrand® Universal Pipet Filler

- Fits pipets from 1 to 25mL
- Precise and accurate pipetting
- Comfortable and simple to use; smooth, controllable thumb action
- Compatible with blow-out, TD (to deliver) or gravity-dispense pipets
- Eliminates the need to use a range of different-sized pipet fillers for a variety of volumes dispensed
- Removable and autoclavable silicone pipet holder
- Acrylic stand available to hold up to five pipet fillers

Fits Pipets	Color	Cat. No.	Each
1 to 25mL	White and blue	03-692-350	50.61

Motorized Fillers

Fisherbrand® Motorized Pipet Fillers/Dispensers

Comfortable pipetting with precise control

03-692-164

Ultra-lightweight (just over 6 oz. [173g]) and compact, these pipet controllers operate for eight hours from a single charge; low battery light indicates one hour of use remaining. During recharging, Fillers/Dispensers can remain in use.

- Mode switch enables selection of three aspirate/dispense speeds, all of which are easily controllable by the triggers
- "High" setting to aspirate/dispense at full speed with blowout
- "Low" to aspirate/dispense at reduced speeds with blowout
- "G" to aspirate at reduced speed, dispense by gravity (for pipets designed "To Deliver")
- Comfortable, concave finger triggers give you additional variable control of pipetting speed at any setting
- Compatible with glass or plastic pipets from 1 to 100mL

Color	Cat. No.	Each
Blue	03-692-164	400.55

Thermo Scientific™ S1 Pipet Fillers

Lightweight, cordless pipet filler allows longer, fatigue-free pipetting

14-387 Series

Monitor Performance

- Large backlit LCD display provides visual confirmation of remaining battery charge and speed settings

Control Speed

- Separate aspirate and dispense speed controls provide precise control over pipetting speeds and reduce risk of overpipetting with smaller pipets
- Choose from eight speeds with a simple "+" or "-" to adjust pipetting speed which is displayed on the LCD

Ready when you need it

- Rechargeable lithium-ion battery offers long runtime per charge while eliminating battery memory problems
- Battery has rapid charge rate of 80% in one hour and delivers up to 15 hours of continuous operation before recharge
- With a customizable ID area the pipet filler permits easy recognition of ownership and/or task designation

Specifications	
Aspirate Speeds	8
Dispense Speeds	8 (+ Gravity Dispense)
Weight	220g
Nosepiece Pipet Holder	Autoclavable Silicone Rubber
Pipet Compatibility	All major brands of glass or plastic serological pipets, 1 to 100mL
Filter Assembly	0.45 Micron Standard
Battery	Lithium-Ion
Approx. Runtime Between Charges	15 hours in continuous use
Recharge Time	3 hours
Power Requirements	
Power Supply Input	100-240 V AC 60-50 Hz, 0.2 A
Power Supply Output	6.0V DC, 0.5A
Package content	S1 Pipet Filler, universal charger, table stand wall-mounted holder, 1mL pipet support, instruction manual and warranty card
Warranty	2-years with web registration

Color	Mfr. No.	Cat. No.	Each
Red	9531	14-387-166	418.50
Green	9541	14-387-167	418.50
White	9501	14-387-163	418.50
Clear	9511	14-387-164	418.50
Blue	9521	14-387-165	418.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Biohit™ Biofiller Pipet Filler

For smooth manual pipetting

- Precise pipetting control
- Robust and lightweight
- Large capacity bulb
- Compatible with blow-out pipets
- Simple thumb button operation
- Uses integral 0.45µm replaceable membrane filter to ensure liquid is not accidentally drawn into the unit
- Autoclavable silicone pipet holder

WARRANTY: Two years

14-559-568

Description	Mfr. No.	Cat. No.	Each
With integral 0.45µm filter	723039	**14-559-568**	135.00

Brand™ accu-jet™ pro Pipet Controller from BrandTech™

Improves upon the original accu-jet with new features and functionality

- Switch-selectable gravity or powered dispensing offers outstanding volumetric pipetting
- Soft blow-out control minimizes disturbance of cell pellets or density gradient interfaces
- Reshaped, ergonomic grip

INCLUDES:
NiHM battery pack, wall holder, 120V 60Hz battery charger and two extra 0.2µm hydrophobic filters.

WARRANTY:
One year

03-840 Series

Description	Mfr. No.	Cat. No.	Each
Dark Blue Accents	2026330	**03-840-310**	493.68
Magenta Accents	2026331	**03-840-311**	493.68
Forest Green Accents	2026332	**03-840-312**	493.68
Royal Blue Accents	2026333	**03-840-313**	493.68

Drummond™ Pipet-Aid™ Filler/Dispensers

Safe and easy to operate

- Electrically powered pipetting device for dispensing 1 to 100mL volumes
- Accepts most glass and plastic pipets
- Useful in confined spaces such as laminar flow hoods
- Has positive-action check valve to prevent fluid intake into handle
- Handle is autoclavable

13-681-15D

Description	Mfr. No.	Cat. No.	Each
Standard Model	4-000-110	**13-681-15**	301.50
With 0.2µm Filter	4-000-111	**13-681-16**	376.50
With Tissue Culture Nosepiece/Filter Unit	4-000-110 TC	**13-681-15C**	334.50
With 0.2µm Filter and Tissue Culture Nosepiece/Filter Unit	4-000-111 TC	**13-681-15D**	409.50

Drummond™ Pipet-Aid™ Hood Mate™ Model 300 Filler/Dispenser

Compact, plug-in unit

- Tissue Culture Nosepiece/Filter Unit eliminates cross-contamination due to overpipetting
- If wetted by overpipetting, filter ceases to pass air in either direction, alerting user to possible rubber-insert contamination
- Dual-layered filter permits no detectable penetration of particles and prevents further use of filler/dispenser if it becomes contaminated with liquid
- 100% effective with aqueous solutions, but not with other solvents
- Lightweight 4.3 oz. handle
- Coiled vacuum/pressure line entering handle from the top prevents accidental knocking over of bench items
- Provides nine fill-and-empty speed settings

13-682-20

ORDERING INFORMATION:
Electrical requirements: 110V

INCLUDES:
Coiled hose, handle hook, pipetting unit with TC nosepiece, Hood Mate body, 6.5' (198cm) electrical cord with plug, mounting bracket, adhesive strip and hose support

For Pipets up to	Mfr. No.	Cat. No.	Each
1 to 100mL	4-000-300	**13-682-20**	433.00

Drummond™ Portable Pipet-Aid™ Filler/Dispensers

Single-speed and multispeed models

Both units work with 1 to 100mL pipets and run continuously for over two hours, pipetting over 2000 times without recharging. They can be recharged nightly over 1000 times and can be used while recharging.

Multispeed Model XP

- The smallest (5.5" long [14cm]) and lightest (7.5 oz. [213g]) of all Pipet-Aid Filler/Dispensers
- Fill and dispense at three speeds: medium (equivalent to normal speed of other Pipet-Aid Filler/Dispensers), slow (one-half medium speed) and fast (twice medium speed)
- Filling and dispensing speeds can be set independently, allowing nine different speed combinations

Single-Speed Model

- Lightweight (<10 oz. [284g]), compact (<7" long [18cm])

INCLUDES:

- Tissue Culture Nosepiece/Filter unit that eliminates cross-contamination due to overpipetting with a dual hydrophilic, hydrophobic 0.8µm filter. Both units come complete with a 110V 60Hz recharger, plus four replacement 1" diameter (2.5cm) filters. Replaceable 9V NiMH battery. Wall holster and stand.

CERTIFICATIONS:
CE, Euro version
(Cat. No. 13-681-07)

NOTES:
Replacement parts: Self-locking filters, 1368118C; batteries, 13-681-13B; rubber inserts, 13-681-17; and TC gaskets, 13-681-30 can be purchased separately.

13-681-15E

Model	Mfr. No.	Cat. No.	Each
Multispeed XP	4-000-101	**13-681-15E**	435.44
Single Speed	4-000-100	**13-681-19**	401.00

Drummond™ Portable Pipet-Aid™ XL and Accessories

New ergonomic design reduces fatigue when pipetting under a hood

- 10" long, lightweight handle lowers your arm position to reduce strain
- Quieter, more efficient pump reduces background noise and extends operation period between charges
- Can be charged while in use to eliminate downtime
- Three speed settings provide more precise control for both aspirate and dispense modes
- New EZ Grip™ nosepiece makes filter replacement easy
- Adjustable sliding hand rest; removable stand enables unit to be set down without contaminating pipet

13-681-110

ORDERING INFORMATION:
Weight: 8 oz. (226g); Other available replacement parts include: Rubber insert (13-681-17), TC filters (13-682-21), TC gaskets (13-681-18C) and EZ Grip™ nosepiece (211713); contact your Fisher Scientific Customer Service Representative.

INCLUDES:
Power supply charger, battery pack, four extra filters, holster-type wall bracket (included with Pipet-Aid XL only).

Description	Mfr. No.	Cat. No.	Each
Portable Pipet-Aid XL	4-000-105	**13-681-110**	453.00
Replacement Parts			
Battery Pack, Ni-MH (3.6V/700mAh)	4-000-036	**13-681-111**	27.50
Power Supply/Charger, 110V	4-000-065	**13-681-112**	29.55

Eppendorf™ Easypet™ 3 Electronic Pipet Controller

- Low weight (only 160g) for ergonomic operation and less arm strain
- Smooth setting of pump speed offers precise meniscus control
- Accepts pipets from 0.1 to 100mL
- Backlit LEDs indicate battery status
- Quick release, autoclavable pipet adapter for sterile applications and easy exchange of membrane filters
- Pressure equalization system prevents aspirated vapors from entering the device and causing corrosion

12-654-100

Description	Mfr. No.	Cat. No.	Each
Easypet 3 Electronic Pipet Controller, Includes 120V Power Supply, Wall Mount, 3 Membrane Filters 0.45µm	4430000026	**12-654-100**	459.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Pipets

Plastic Disposable - Serological

Fisherbrand® Sterile Disposable Standard Serological Pipets

Color-coded pipets and packaging permit easy identification by size using ISO standard colors

- Polystyrene
- Ascending and descending graduations on all but the 1 and 2mL sizes
- Sterile and nonwettable pipets
- Offer a tolerance of ±2% at full volume and have plug-in mouth end
- Recyclable outer packaging
- Each pipet lot is tested for sterility, accuracy and endotoxin level

COMPLIANCE:
Designed from ASTM™ E 934; conform to ASTM E 1380 for color coding.
Calibrated "To Deliver/Blow Out."

CERTIFICATIONS:
Certified nonpyrogenic with an endotoxin level less than 0.5EU/mL following USP XXII Bacterial Endotoxins Test (85).

Sterile Disposible Serological Pipets

					Multipack		
Capacity (mL)	**Subdivision (mL)**	**Neg. Grads. (mL)**	**Tolerance (mL)**	**Pkg. Color Code**	**Inner Pack Qty.**	**Cat. No.**	**Case of**
1mL	0.01	0.4	±0.02	Yellow	50/Bag	**13-678-12B**	1000/237.00
2mL	0.01	0.4	±0.04	Green	50/Bag	**13-678-12C**	500/155.50
5mL	0.1	2	±0.10	Blue	50/Bag	**13-678-12D**	500/179.00
10mL	0.1	3	±0.20	Orange	50/Bag	**13-678-12E**	500/194.20
25mL	0.2	10	±0.50	Red	25/Bag	**13-678-14B**	200/191.09
50mL	0.5	9	±1.0	Purple	25/Bag	**13-678-14C**	100/272.00
With Wide Tip							
10mL	0.1	3	±0.20	Orange	---	**13-678-14A**	500/307.00

Thermo Scientific™ Nunc™ Serological Pipets

Accurate, disposable plastic pipets, plugged and sterilized

- Sterility assurance level (SAL) of 10^{-6}
- 100% virgin polystyrene for maximum clarity
- Certified non-pyrogenic
- Bold clear graduations with easy-to-read scale markings
- Non-dripping tip for pipet precision
- Color-coded packaging for ease in sorting and selecting the correct size
- Packaging options that accommodate every lab
- Individually wrapped; paper/plastic or plastic film; peel or pop through for easy opening
- Bulk packed for frequent use; reduces packaging waste
- Multiple sizes for use in a wide range of applications

ORDERING INFORMATION:
Supplied sterile, individually packaged in easy-open paper/plastic wrapper.

Pipet Size	Mfr. No.	Cat. No.	Case of
Individually Wrapped, Paper Peel Packaging			
1mL	170353	**12-567-600**	1000/183.20
2mL	170354	**12-567-601**	500/107.70
5mL	170355	**12-567-602**	200/53.30
10mL	170356	**12-567-603**	200/64.80
25mL	170357	**12-567-604**	200/136.60
50mL	170358	**12-567-605**	100/189.40
Shortie, 5mL	170360	**12-567-618**	200/54.00
Shortie, 10mL	170361	**12-567-619**	200/64.00
Individually Wrapped, Plastic Film Packaging			
1mL	170364	**12-567-606**	1000/162.50
2mL	170365	**12-567-607**	500/90.00
5mL	170366	**12-567-608**	200/49.15
10mL	170367	**12-567-609**	200/58.60
25mL	170368	**12-567-610**	200/131.50
50mL	170369	**12-567-611**	100/175.90
Bulk Packed			
1mL	170371	**12-567-612**	1000/150.10
2mL	170372	**12-567-613**	500/76.18
5mL	170373	**12-567-614**	500/113.90
10mL	170374	**12-567-615**	500/135.60
25mL	170375	**12-567-616**	200/122.10
50mL	170376	**12-567-617**	100/163.50

Fisherbrand® Sterile Polystyrene Disposable Serological Pipets with Black Magnifier Stripe

Designed for tissue culture work

- Color coded magnifier stripe runs lengthwise along pipet, making meniscus obvious at arm's length, reducing reading errors
- Pipets have improved optical clarity — high-contrast black markings make volumes easier to read
- Sterile and nonwettable pipets
- Offer a tolerance of ±2% at full volume and have plug-in mouth end
- 5, 10, 25 and 50mL pipets have ascending and descending graduations
- Improved tip design on 25 and 50mL pipets increases the effect of surface tension to minimize dripping
- Color coding on each pipet and on inner bags for multipack pipets make it easy to spot the size needed
- Each pipet lot is tested for sterility, accuracy and endotoxin level
- Individually wrapped, with paper and plastic wraps, 50 per pack/200 per case

13-676-10M

ORDERING INFORMATION:
Inner bags are recyclable LDPE; outer boxes also are recyclable. Individually wrapped pipets are ideal for small-volume use requiring sterility and are available in either a clear, durable all-plastic wrap, or a color-coded paper/plastic wrap for reduced static cling. Multipack for larger-volume use permits easy access to several pipets at a time without contaminating unused pipets.

COMPLIANCE:
Calibrated "To Deliver/Blow Out"

CERTIFICATIONS:
Certified nonpyrogenic with an endotoxin level less than 0.5EU/mL following USP XXII Bacterial Endotoxins Test (85).

Capacity	Color Code	Packaging	Cat. No.	Case of
1mL	Yellow	Individual, paper-plastic wrap	**13-678-11B**	1000/281.00
	Yellow	Individual, all-plastic wrap	**13-676-10G**	1000/288.50
	Yellow	Bulk Pack	**13-676-10B**	1000/269.00
2mL	Green	Individual, paper-plastic wrap	**13-678-11C**	500/170.10
	Green	Individual, all-plastic wrap	**13-675-3C**	500/191.80
	Green	Bulk Pack	**13-675-2C**	500/169.00
5mL	Blue	Individual, paper-plastic wrap	**13-678-11D**	200/86.90
	Blue	Individual, all-plastic wrap	**13-676-10H**	200/95.50
	Blue	Bulk Pack	**13-676-10C**	500/205.50
10mL	Orange	Individual, paper-plastic wrap	**13-678-11E**	200/95.10
	Orange	Individual, all-plastic wrap	**13-676-10J**	200/99.90
	Orange	Bulk Pack	**13-676-10F**	500/222.00
25mL	Red	Individual, paper-plastic wrap	**13-678-11**	200/209.00
	Red	Individual, all-plastic wrap	**13-676-10K**	200/237.00
	Red	Bulk Pack	**13-676-10M**	200/223.00
50mL	Purple	Individual, paper-plastic wrap	**13-678-11F**	100/263.00
	Purple	Individual, all-plastic wrap	**13-676-10R**	100/257.00
	Purple	Bulk Pack	**13-676-10Q**	100/254.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Falcon™ Disposable Polystyrene Serological Pipets

Gamma-irradiated, nonpyrogenic, made of clear polystyrene for optical clarity

- Feature exceptionally crisp, dark, easy-to-read printing with both reverse (except on 1mL) and negative graduations
- An exclusive graduation alignment mark allows graduations to be brought into line of sight before complete removal of the wrapper
- Inside surface discourages formation of meniscus, thereby reducing reading errors
- Total delivery accuracy of pipets, ±3%, with a 1.5% coefficient of variation
- Negative graduations allow for extra capacity
- Polyester fiber plug helps prevent overfill
- Color coding on packaging and blow-out rings allows easy identification of size

Easy to Use

- BD Falcon pipets are designed to simplify your work. They have large, high-contrast numbers allowing easy-to-read measurements in the hood. Negative and reverse graduations allow increased volume and convenience when dispensing your fluids.

Biocompatible

- Resins are selected via an intense array of U.S. Pharmacopoeia (USP) toxicity tests to ensure the products do not contain concentrations of bioactive substances that could potentially interfere with biological experiments.
- Individually wrapped in paper/plastic package

Wide Pipet Selection

- A large portfolio of sizes and styles including 1-100mL sizes, space saver and extended style pipets are available, maximizing choice and flexibility. BD Falcon pipets are available as serological, aspirating and transfer pipets.
- The innovative BD Falcon 100mL pipet has up to a 115mL graduated capacity for large pipetting. The unique stepped design allows you easy access to small-mouthed vessels such as flasks and tubes in an aseptic manner, preventing foaming and cell damage

13-675 Series

ORDERING INFORMATION:
Four types of contamination-resistant packaging are available: individually wrapped in thermoformed paper/plastic; individually wrapped in all-plastic thermoform wrap; multipacks in bags; bulk packaged

COMPLIANCE:
Manufactured under ISO 9001: 2000 Standard and current FDA Quality System regulation in Chapter 1, Title 21, Section 820 CFR. All pipets are Class I Medical Devices, except the 25mL pipet with extended capacity (13-375-30). Calibrated "To Deliver/Blow Out".

Individually wrapped in paper/plastic package

Capacity (mL)	Subdivision (mL)	Negative Grad. (mL)	Color Code	Quantity	Mfr. No.	Cat. No.	Case of
Standard tip							
1	0.01	0.4	Yellow	100/Box	357521	**13-675-15B**	1000/341.49
2	0.01	0.8	Green	100/Box	357507	**13-675-17**	1000/418.43
5	0.1	2.5	Blue	50	357543	**13-675-22**	200/115.03
10	0.1	3	Red	50	357551	**13-675-20**	200/118.82
25	0.25	7	Purple	200/Cs.	357525	**13-668-2**	200/250.32
50	1	10	Black	25	357550	**13-675-27**	100/266.72
100	1	15	Black	5	357600	**13-675-73** †	50/306.32
Standard tip with extended capacity							
25	0.5	11	Purple	50	357535	**13-675-30** ‡	200/239.13

Note: For research use only. Not for use in diagnostic or therateutic procedures. Not a Class I medical device.

Individually wrapped in Advantage all-plastic package

Capacity	Subdivision	Negative Grads.	Color Code	Quantity	Mfr. No.	Cat. No.	Case of
0.03 oz. (1mL)	1/100mL	0.4mL	Yellow	100/Box	356521	**13-675-46**	1000/353.00
0.06 oz. (2mL)	1/100mL	0.8mL	Green	100/Box	356507	**13-675-47**	1000/426.00
0.16 oz. (5mL)	1/10mL	2.5mL	Blue	50/Pk.	356543	**13-675-48**	200/126.62
0.33 oz. (10mL)	1/10mL	3mL	Red	50/Pk.	356551	**13-675-49**	200/121.37
0.84 oz. (25mL)	1/4mL	7mL	Purple	50/Pk.	356525	**13-675-50**	200/250.42
1.69 oz. (50mL)	1/10mL	10mL	Black	25/Pk.	356550	**13-675-52**	100/276.86
Standard tip, extended capacity of 36mL							
0.84 oz. (25mL)	1/2mL	11mL	Purple	50/Pk.	356535	**13-675-51**	200/267.88

Multipacked in bags

Capacity (mL)	Subdivision (mL)	Negative Grads. (mL)	Color Code	Mfr. No.	Cat. No.	Case of
1	0.01	0.4	Yellow	357506	**13-675-10AA**	1000/293.63
2	0.01	0.8	Green	357508	**13-675-10DD**	1000/382.50
5	0.1	2.5	Blue	357529	**13-675-21**	500/236.63
10	0.1	3	Red	357530	**13-675-18**	500/251.66
25	0.25	7	Purple	357515	**13-675-10EE**	200/231.73

Costar™ Stripette™ Disposable Polystyrene Serological Pipets

Ideal for cell culture and other applications that require aseptic liquid handling

- Unique color-coded magnifying stripe for easier meniscus viewing
- Accuracy within ±2% at full volume
- Calibrated to deliver (TD-EX 20°C) their contents with blowout.
- Bidirectional graduations allow the choice of using ascending or descending scales
- Negative graduations on the 1, 2, 5, 10, 25 and 50mL Stripettes provide additional working volume
- 100mL Stripettes allows large-volume fluid transfers safely and easily; eliminate the need for graduated cylinders and other liquid-handling vessels
- Cylindrical anti-drip tip design on 25, 50 and 100mL sizes reduces accidental drippage and assures accurate delivery
- 10mL size has a wide tip for handling viscous fluids

07-200 Series

Individually wrapped in all-plastic wrap

"Banana-peel" plastic wrap features easy opening for aseptic removal and eliminates static cling when wearing latex gloves

Polystyrene pipet can be seen through the clear plastic wrap for instant size identification. Plus, space saving packaging reduces storage requirements, waste, and one material makes it easy to recycle.

- New anti-static clear all-plastic wrap allows full view of pipet for easy size identification and reduces storage space requirements
- Sterile, individually wrapped, and certified nonpyrogenic and DNase-/RNase-free
- Lot numbers printed on each pipet wrapper

Capacity (mL)	Subdivision (mL)	Neg. Grads. (mL)	Color Code	No./Pack	Mfr. No.	Cat. No.	Case of
1	0.01	0.2	Yellow	100	4011	**07-200-2**	1000/375.50
1	0.01	0.2	Yellow	100	4012	**07-200-3**	200/88.72
2	0.01	0.2	Green	100	4021	**07-200-7**	1000/451.50
5	0.1	2.5	Blue	50	4051	**07-200-9**	200/123.03
10	0.1	3.0	Orange	50	4101	**07-200-12**	200/128.61
10	0.1	3.0	Orange	50	4492	**07-200-619**	50/46.15
25	0.2	10.0	Red	50	4251	**07-200-15**	200/274.58
50	0.5	10.0	Purple	25	4501	**07-200-17**	100/297.42
100	1	----	Aqua	10	4484	**07-200-547**	100/608.00

Note: For bulk pricing on items 07-200-12 and 07-200-619, contact your Fisher Sientific Customer Service Representitive.

Individually wrapped in paper/plastic wrap

Ideal for sterile tissue culture applications, especially while wearing latex gloves, as the wrap reduces static cling

Paper/plastic wrap allows easy opening by either pop-through or peel-apart techniques.

- Color coding on paper allows easy size identification
- Paper/plastic wrap allows full view
- Sterile, individually wrapped and certified nonpyrogenic and DNase-/RNase-free
- Lot numbers printed on each pipet wrapper

Capacity (mL)	Subdivision (mL)	Neg. Grads. (mL)	Color Code	No./Pack	Mfr. No.	Cat. No.	Case of
1	0.01	0.2	Yellow	50	4485	**07-200-571**	1000/363.50
2	0.01	0.2	Green	50	4486	**07-200-572**	1000/452.50
5	0.1	2.5	Blue	50	4487	**07-200-573**	200/118.72
10	0.1	3.0	Orange	50	4488	**07-200-574**	200/125.15
25	0.2	10.0	Red	25	4489	**07-200-575**	200/259.14
50	0.5	10.0	Purple	25	4490	**07-200-576**	100/284.10
100	1	---	Aqua	10	4491	**07-200-620**	10/70.60

Bulk packed

Ideal for large-scale sterile and nonsterile liquid handling applications

- Sterile and certified nonpyrogenic and DNase-/RNase-free

Capacity (mL)	Subdivision (mL)	Neg. Grads. (mL)	Color Code	No./Bag	Mfr. No.	Cat. No.	Case of
1	0.01	0.2	Yellow	50	4010	**07-200-1**	1000/318.72
2	0.01	0.2	Green	50	4020	**07-200-6**	1000/408.00
5	0.1	2.5	Blue	50	4050	**07-200-8**	500/255.50
10	0.1	3.0	Orange	50	4100	**07-200-11**	500/264.93
Cylindrical Anti-Drip Tip Design							
25	0.2	10.0	Red	25	4250	**07-200-14**	200/260.00
50	0.5	10.0	Purple	25	4500	**07-200-16**	100/282.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimble-Chase Disposable Plastic Serological Pipet

Irradiation sterilized and suitable for tissue culture work

- Have uniform pulled or molded tips and beveled or molded top ends with cotton plugging
- Two rings near top denote that small amount remaining in tip after delivery must be blown out and added to main volume delivered
- 5mL size now has two-piece design
- Color-coded packaging makes choosing correct pipet size quick and accurate
- Calibrated "To Deliver" to tip

ORDERING INFORMATION:
Multipacked 10mL pipets available with either regular tip (1.5mm dia.) or wide tip (3.5mm dia.). All sizes available either in paper/plastic individual wraps overpacked in dispensing shelf packs, or in recloseable multipacks overpacked in shipping containers.

COMPLIANCE:
Designed from ASTM™ E 934.

Individually wrapped, Multipack Standard Tip, 13-674-45

Individually wrapped

Capacity (mL)	Subdivision (mL)	Negative Grads. (mL)	No./Pack	Color Code	Mfr. No.	Cat. No.	Case of
1	0.01	0.3	200	Yellow	56900-11100	**13-674-41A**	1000/441.00
1	0.1	0.3	200	Red	56900-1110	**13-674-41**	1000/436.50
2	0.01	0.3	125	White	56900-21100	**13-674-41B**	500/257.00
5	0.1	2	50	Blue	56900-5110	**13-674-41C**	200/158.50
10	0.1	3	50	Orange	56900-10110	**13-674-41D**	200/148.20
25	0.2	10	50	Green	56900-25210	**13-674-41E**	200/299.00
50	0.5	10	25	Purple	56900-50510	**13-674-41F**	100/381.00

Multipacked with standard tip

Capacity (mL)	Subdivisions (mL)	Negative Grads. (mL)	No./Bag	Color Code	Mfr. No.	Cat. No.	Case of
1	0.01	0.3	25	Yellow	56800-11100	**13-674-40A**	1000/394.50
1	0.1	0.3	25	Red	56800-1110	**13-674-40**	1000/385.00
2	0.01	0.3	25	White	56800-21100	**13-674-40B**	500/261.50
5	0.1	2	25	Blue	56800-5110	**13-674-40C**	500/352.00
10	0.1	3	25	Orange	56800-10110	**13-674-40D**	500/332.00
25	0.2	10	10	Green	56800-25210	**13-674-40E**	200/299.00
50	0.5	10	10	Purple	56800-50510	**13-674-40F**	100/374.50

Multipacked with wide tip

Capacity (mL)	Subdivision (mL)	Negative Grads. (mL)	No./Bag	Mfr. No.	Cat. No.	Case of
10	0.1	3	25	56825-10110	**13-674-45**	500/448.50

Glass Disposable - Serological

Fisherbrand® Borosilicate Glass Disposable Serological Pipets

Regular-tipped pipets have long, slender, tapered tips to speed pipetting

- Chemically inert pipets have negative graduations as well as bidirectional scales. Blue markings are easy to read
- Packaging meets requirements of small-, medium-, or large-volume use
- Individually wrapped pipets come in transparent plastic/paper wrappers for easy identification and tear-through, and are further over-packed in handy shelf container/dispensers; ideal for small volumes requiring sterility
- Multipack with resealable flap for larger volume use permits easy access to several pipets at a time without contaminating unused pipets
- Outer packaging is recyclable

ORDERING INFORMATION:
Individually wrapped and multipacked pipets come in sterile and plugged; nonplugged bulk-packed pipets are also available.

COMPLIANCE:
Regular-tip styles have volume tolerances that comply with ASTM™ E 714. Calibrated "To Deliver/Blow Out," color-coded packaging on all pipets, except bulk packs, allows easy identification by size using ISO™ standard colors.

With Regular Tip, Standard Length

13-678 Series

					Sterile and Plugged						Nonsterile and Nonplugged		
					Individually Wrapped			Multipack[1]			Packed in Canisters		
Capac. (mL)	Subdiv. (mL)	Neg. Grads. (mL)	Tol. (mL)	Pkg. Color Code[1]	Inner-Pack Qty.	Cat. No.	Case of	Inner-Pack Qty.	Cat. No.	Case of	Inner-Pack Qty.	Cat. No.	Case of
0.5	0.01	0.2	±0.013	Yellow	125	**13-678-27A**	500/268.50	----	----	----	----	----	----
0.5	0.05	0.2	±0.013	----	----	----	----	----	----	----	250	**13-678-31D**	500/200.00
1	0.1	0.2	±0.02	Red	200	**13-678-27B**	1000/391.50	250	**13-678-25A**	1000/388.50	250	**13-678-31E**	1000/315.50
1	0.01	0.2	±0.02	Yellow	200	**13-678-27C**	1000/381.00	250	**13-678-25B**	1000/333.00	50	**13-678-26A**	500/205.00
2	0.01	0.2	±0.04	White	125	**13-678-27D**	500/231.50	250	**13-678-25C**	500/195.70	50	**13-678-26B**	500/235.50
5mL	0.1	1	±0.15	Blue	100	**13-678-27E**	500/312.00	250	**13-678-25D**	500/250.50	50	**13-678-26C**	500/279.00
10	0.1	2	±0.30	Orange	110	**13-678-27F**	500/319.50	250	**13-678-25E**	500/335.50	50	**13-678-26D**	500/373.00

[1] Bulk-packaged pipets (nonsterile and nonplugged) are not color coded

With Regular Tip, Short Length

Perfect for tissue culture work or procedures performed under fume hoods or in confined areas

13-678-36C

Capacity (mL)	Subdivision (mL)	Neg. Grads. (mL)	Tolerance (mL)	Pkg. Color Code	Pack Qty.	Cat. No.	Case of
1	0.01	0.5	±0.04	Yellow	200	**13-678-36A**	400/188.30
5	0.1	3	±0.2	Blue	100	**13-678-36B**	200/214.00
10	0.2	4	±0.4	Orange	100	**13-678-36C**	200/246.50
25	0.2	5	±0.5	Green	100	**13-678-36D**	200/312.50
50	0.5	10	±1.5	Purple	25	**13-678-36E**	50/312.00

With Wide Tip, Standard Length

Sterile and plugged, multipack†

13-678-35A

Capacity (mL)	Subdivision (mL)	Neg. Grads. (mL)	Tolerance (mL)	Pkg. Color Code	Cat. No.	Case of 400
5	0.1	1	±0.02	Blue	**13-678-35A**	276.00
10	0.2	2	±0.4	Orange	**13-678-35B**	309.50

†Vented multipack

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimble-Chase Disposable Borosilicate Glass Serological Pipets

Sterile, plugged short-length pipets perfect for tissue culture work or procedures performed under fume hoods or in confined areas

03-340-126B

- Chemically inert
- With easy-to-read blue markings and bidirectional graduations
- Vented, recloseable multipack for larger volume use permits easy access to several pipets at once without contaminating unused pipets

ORDERING INFORMATION:
1mL size comes in two inner packs of 200 each; 5, 10 and 25mL sizes in two inner packs of 100 each. Two packs per case.

COMPLIANCE:
Calibrated "To Deliver/Blow Out." Color coded by size with ISO™ standard colors

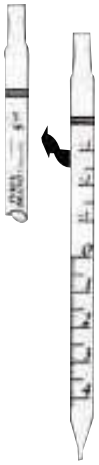
Capac. (mL)	Subdiv. (mL)	Neg. Grad. (mL)	Tol. (mL)	Pkg. Color Code	Mfr. No.	Cat. No.	Case of
1	0.01	0.5	±0.04	Yellow	72110-11100	**03-340-126A**	400/247.94
5	0.1	2	±0.2	Blue	72110-5110	**03-340-126B**	200/262.00
10	0.2	2	±0.4	Orange	72110-10210	**03-340-126C**	200/288.92
25	0.2	5	±1.0	Green	72110-25210	**03-340-126D**	200/417.61
50	0.5	10	±1.5	Purple	72110-50510	**03-340-126E**	50/232.00

Pyrex™ Brand Shorty Disposable Glass Serological Pipets

Ideal for use in confined areas such as hoods

- Sterile, plugged pipets have tooled tops
- Negative graduations make it applicable for both serological and measuring procedures
- I.S.O. color coding is printed directly on Steri-View™ (one side paper, one side plastic) wrapper

COMPLIANCE:
Calibrated "To Deliver" (TD) with blow-out.



13-676 Series

Capac. (mL)	Subdiv. (mL)	Neg. Grads (mL)	No./Pack	Mfr. No.	Cat. No.	Case of
Individually Wrapped						
1	0.01	0.5	250	7077B-1	**13-676-29K**	500/323.00
5	0.1	3	200	7077B-5	**13-676-29J**	400/532.50
10	0.2	4	200	7077B-10	**13-676-29H**	400/611.50
25	0.2	5	100	7077B-25	**13-676-29G**	400/879.00
50	0.5	3	25	7077B-50	**13-676-29E**	50/221.50
Multipack						
1	0.01	0.5	10	7078B-1	**13-664-18A**	500/325.00
10	0.2	4	10	7078B-10	**13-664-18C**	400/611.50
25	0.2	5	5	7078B-25	**13-664-18D**	400/879.00

Pyrex™ Brand Disposable Glass Serological Pipets

Long, slender, tapered tips make pipetting faster and easier

- Sterile, plugged
- Negative graduations
- Fire-polished tips for burr-free, even flow rates

ORDERING INFORMATION:
Individually packaged in easy-open Steri-View™ wrappers or multipacked in plastic bags.

13-666-7 Series

Individually wrapped

Calibrated "to deliver" (TD) with blow-out; offer long, slender, tapered tips to make pipetting go faster and easier

- Easy-open Steri-View wrappers (one side paper, one side plastic) have color-coded sizes printed directly on the paper for easy identification by size
- Colors conform to I.S.O. standards

Capacity (mL)	Subdivision (mL)	Neg. Grads. (mL)	No./Pack	Mfr. No.	Cat. No.	Case of
1	0.01	0.2	200	7077-1N	**13-666-7F**	800/459.00
2	0.01	0.2	180	7077-2N	**13-666-7C**	720/458.00
5	0.1	1.0	120	7077-5N	**13-666-7D**	720/586.19
10	0.1	2.0	100	7077-10N	**13-666-7E**	600/525.93

Multipacked in plastic bags

Ideal for large-volume users

Permit easy access to several pipets at a time without contaminating the entire case.

Capac. (mL)	Subdiv. (mL)	Neg. Grads. (mL)	No./Bag	Mfr. No.	Cat. No.	Case of
1	0.1	0.2	50	7078-1N	**13-676-33A**	1000/500.50
1	0.01	0.2	50	7078-1CN	**13-676-33B**	1000/474.00
2	0.01	0.2	35	7078-2N	**13-676-33C**	700/384.00
5	0.1	1.0	30	7078-5N	**13-676-33D**	960/682.50
10	0.1	2.0	20	7078-10N	**13-676-33F**	720/587.00

Disposable - Micropipets

Kimble-Chase Disposable Micro Capillary Pipets

Color-coded for selection of correct size

- Length: 5" with single black capacity ring
- Clean and ready to use
- To dispense, simply cover hole on rubber bulb and squeeze

13-678-18A

ORDERING INFORMATION:
Packaged in easy open cylinders for convenient dispensing.

Each cylinder contains 250 pipets and one pipet device.

COMPLIANCE:
Calibrated "To Contain." Made of soda lime glass in compliance with ASTM™ Specification E438, Type II glass requirements.

Capacity (µL)	Tolerance	Color	Mfr. No.	Cat. No.	Case of 1000
5	±1%	White	71900-5	**K71900-5**	265.50
10	±0.5%	Orange	71900-10	**13-678-18A**	265.50
20	±0.5%	Black	71900-20	**13-678-18B**	267.50
50	±0.5%	Green	71900-50	**K71900-50**	267.50
100	±0.5%	Blue	71900-100	**K71900-100**	267.50

Drummond™ Calibrated Micropipets

Anticoagulant treatment for clinical applications

21-180 Series

- Ideal for liquid transfer work
- Fire polished
- Accuracy ±0.5%
- Color coded
- Use heparinized 44.7µL pipet for blood transfer work
- Available in sizes from 1 to 200µL

ORDERING INFORMATION:
Supplied in pack of 250 micropipets and one 15" aspirator tube in easy-to-store cylinder.

Capacity (µL)	Color Code	Mfr. No.	Cat. No.	Each
1 to 5	White	2-000-001	**21-180-11**	70.80
5	White	2-000-005	**21-180-12**	70.80
10	Orange	2-000-010	**21-180-13**	70.80
20	Black	2-000-020	**21-180-14**	70.80
40	Yellow	2-000-040	**21-180-15**	70.80
50	Green	2-000-050	**21-180-16**	70.80
75	Purple	2-000-075	**21-180-17**	70.80
100	Blue	2-000-100	**21-180-18**	70.80
200	Red	2-000-200	**21-180-19**	70.80
44.7, Heparinized	Purple/Green	2-000-044-H	**21-180-20**	85.20
15" Aspirator Tube Assembly		2-000-000	**21-180-10**	2.59

Drummond™ Wiretrol™ I Calibrated Micropipets

Easy-to-read volume line won't wash off

- Deliver within 1%
- One-handed operation
- Accepts both high- and low-viscosity liquids including corrosives
- Color coded
- Micropipets 21-175D, -175E and -175F have PTFE-fluorocarbon-resin tips on plunger

21-175B

INCLUDES:
Handy dispenser cap, handle, stainless-steel plunger

COMPLIANCE:
Calibrated "To Contain"

Capacity	Color Code	Mfr. No.	Cat. No.	Pack of 100
5	White	5-000-1005	**21-175A**	29.10
10	Orange	5-000-1010	**21-175B**	29.10
20	Black	5-000-1020	**21-175C**	29.10
25	White	5-000-1025	**21-175D**	29.10
50	Green	5-000-1050	**21-175E**	29.05
100	Blue	5-000-1100	**21-175F**	29.10

Drummond™ Wiretrol™ II Calibrated Micropipets

Accept both high- and low-viscosity liquids, including corrosives

- Deliver within 1%
- One-handed operation
- Similar to Wiretrol I micropipets, except each pipet has two capacities, thus two easy-to-read volume lines (21-176-2A has six capacities, six lines) that won't wash off
- Micropipets 21-176-2D, 21-176-3A and 21-176-4A have PTFE-resin tips on plunger

21-176-2A

INCLUDES:
Each case comes with handy dispenser cap, handle and two stainless-steel plungers: one full length, plus one short length for noncontact delivery

COMPLIANCE:
Calibrated "To Contain".

Capacity (µL)	Color Code	Mfr. No.	Cat. No.	Pack of 250
1, 2, 3, 4 and 5	White	5-000-2005	**21-176-2A**	57.30
5, 10	White	5-000-2010	**21-176-2B**	57.30
10, 20	Orange	5-000-2020	**21-176-2C**	57.30
25, 50	White	5-000-2050	**21-176-2D**	57.30
50, 100	Green	5-000-2100	**21-176-3A**	57.30
100, 200	Blue	5-000-2200	**21-176-4A**	57.30

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Drummond™ Short-Length Microcaps™ Micropipets

Ideal for handling dangerous materials

Precision-made capillary glass tubing, accurate to within ±1%.

21-170 Series

- To use, insert pipet through cap on end of rubber bulb assembly until visible through glass tube
- Hole in rubber bulb permits free air circulation, fills pipet by capillary action
- Pipet contains stated volume when completely filled from end to end
- To discharge, hold finger over hole in bulb and squeeze
- To rinse, repeat operation with diluent

ORDERING INFORMATION:
Micropipet 21-170L is heparinized. Packed in vials of 100.

INCLUDES: Bulb assembly.

COMPLIANCE: Calibrated "To Contain" definite volume from end to end.

Capacity (µL)	Mfr. No.	Cat. No.	Pack of 100
1.0	1-000-0010	**21-170A**	16.25
2	1-000-0020	**21-170B**	16.19
3	1-000-0030	**21-170C**	16.46
4	1-000-0040	**21-170D**	16.46
5	1-000-0050	**21-170E**	16.26
10	1-000-0100	**21-170F**	16.25
20	1-000-0200	**21-170G**	16.48
25	1-000-0250	**21-170H**	16.46
30	1-000-0300	**21-170J**	25.60
40	1-000-0400	**21-170K**	16.46
50	1-000-0500	**21-170M**	23.85
100	1-000-1000	**21-170N**	16.46

Disposable Pasteur

Fisherbrand® Disposable Borosilicate Glass Pasteur Pipets

Constriction near top prevents plugs from slipping into pipet body

13-678-20A

- High-quality borosilicate glass
- Plugs not supplied
- Tips held to close diameter tolerances
- Square cut end

COMPLIANCE: Designed from ASTM™ E 732 specifications

Approx. Length	Cat. No.	Case of
5.75" (146mm)	**13-678-20A**	720/94.70
5.75" (146mm)	**13-678-20B**	1440/172.00
9" (229mm)	**13-678-20C**	720/96.40
9" (229mm)	**13-678-20D**	1440/179.30

Fisherbrand® Disposable Controlled-Drop Pasteur Pipets

Perfect for blood typing and cross-matching procedures in blood bank laboratories

13-678-30 (top), 13-678-6C (bottom).

- Deliver 22 to 26 drops per mL
- Correspond to drop size from antisera reagent bottle droppers
- Can be cotton plugged (plugs not included)

ORDERING INFORMATION: 250 pipets per pack, four packs per case.

Approx. Length	Glass Type	Cat. No.	Case of 1000
5.75" (14.6cm)	Borosilicate	**13-678-30**	204.50
5.75" (14.6cm)	Flint	**13-678-6C**	177.35

Fisherbrand® Disposable Cotton-Plugged Borosilicate-Glass Pasteur Pipets

Made of N-51A borosilicate glass

13-678-8A

- Straight-cut tips and smooth, fire-polished tops to facilitate bulb attachment
- A positive constriction at approximately 1" (2.5cm) from top holds supplied cotton plug in place, thereby reducing the chance of aspirating liquid into rubber bulb
- Easel box, made of nonlinting material, folds to become a dispenser for easy access to pipets
- Foam pad at bottom of box preserves tips

Approx. Length	Cat. No.	Pack of 250	Case of 4 Packs
5.75" (146mm)	**13-678-8A**	44.70	146.50
9" (229mm)	**13-678-8B**	46.00	150.80

Fisherbrand® Disposable Flint-Glass Pasteur Pipets in Stand-Up Case

Tip openings range from 0.03 to 0.06" (0.80 to 1.40mm)

22-230-490

- High-quality flint glass pipets in convenient stand-up case
- Saves bench space
- Approximate volume: 2mL
- Can be cotton plugged (plugs not included)

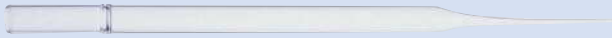
ORDERING INFORMATION: 100 pipets per pack, 10 packs per case

COMPLIANCE: Designed to meet ASTM™ E 732 specifications

Approx. Length	Cat. No.	Case of 1000
5.75" (150mm)	**22-230-482**	145.90
9" (229mm)	**22-230-490**	204.50

Fisherbrand® Disposable Soda-Lime Glass Pasteur Pipets

Ideal for transferring samples to sample cups and for drop counting



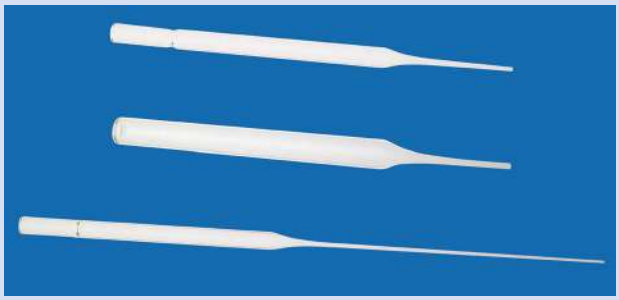
13-678-6A

- Uniform bore
- Tip openings range from 0.80 to 1.20mm
- Top and tip free of sharp edges
- Can be cotton plugged (plugs not included)
- Carton top folds back — tilts carton into convenient dispensing position

Approx. Length	Cat. No.	Pack of 250	Case of 4 Packs
5.75" (146mm)	**13-678-6A**	45.15	138.60
9" (229mm)	**13-678-6B**	49.35	151.60

Fisherbrand® Pasteur Pipets

Excellent for use in blood banks, hematology, chemistry, bacteriology and all general laboratory applications



Top to bottom: 22-209-353, 22-063-156, 22-209-361

Strong corrugated packaging is used to provide maximum protection from external shock and each pack contains a foam pad to protect the pipet tips.

- Manufactured from borosilicate or soda lime glass to conform to rigid specifications
- Straight-cut tips and smooth, fire-polished tops to facilitate bulb attachment
- I.D., top: 7mm; tips: 0.9 to 1.25mm
- Positive constriction approximately 1" from the top to prevent cotton plugs from slipping into pipet barrel
- Easel configuration of each pack keeps pipets orderly and easily accessible

Length	Material	Cat. No.	Pack of	Case of
Plain				
	Soda Lime Glass	**22-063-156**	200/37.40	5/153.40
5.75" (150mm)	Soda Lime Glass	**22-042-816**	250/40.10	4/131.40
	Borosilicate Glass	**22-183-624**	----	1000/177.80
	Soda Lime Glass	**22-063-172**	200/37.61	5 Pk./156.70
9" (229mm)	Soda Lime Glass	**22-042-817**	250/46.93	4 Pk./156.28
	Borosilicate Glass	**22-183-632**	----	1000/237.50
Cotton-Plugged				
5.75" (150mm)	Soda Lime Glass	**22-209-353**	----	250/269.67
	Borosilicate Glass	**22-209-379**	----	250/316.49
9" (229mm)	Soda Lime Glass	**22-209-361**	----	250/339.96

Corning™ Disposable Glass Pasteur Pipets

13-678 series

- Available in convenient bulk packs
- Made from economical soda lime glass
- One-time use eliminates the danger of cross-contamination of valuable specimens or laboratory reagents
- Pipets have a constriction one inch below the top to facilitate plugging
- For nonvolumetric transfer work in bacteriology, immunology, hematology and serology studies, as well as blood bank and clinical chemistry procedures

Approx. Length	Mfr. No.	Cat. No.	Case of 1000
5.75" (146mm)	7095B-5X	**13-678-4**	83.76
9" (229mm)	7095B-9	**13-678-4A**	93.13
13" (330mm)	7095B-NMR	**13-678-6**	132.20

Disposable Transfer

Fisherbrand® Disposable Transfer Pipets

Unbreakable all-in-one pipets eliminate the hazards of broken glass and exposure to infectious materials

Put an end to matching rubber bulb with glass pipet. Since entire unit is disposable, these pipettes prevent cross-contamination to samples and reduce airborne contamination to personnel.

- Molded in one piece from see-through low-density polyethylene
- Inert to biological fluids and most acids
- Work well in hematology, urinalysis, chemistry, blood banking — anywhere there is a need for quick, safe transfer of fluids
- In three ready-to-use styles
- One squeeze draws from 2.0 to 3.3mL (depending on style used)
- All deliver repeatable drop sizes
- Can be sealed and refrigerated for sample storage (seal with Cat. No. 02-678 Hemato-Seal™ Tube Sealant)

Blood Bank Pipet

Single squeeze draws up to 2.4mL

13-711-5AM

- Capacity: approximately 5mL
- Delivers 24 to 26 drops/mL

Approx. Length	Cat. No.	Pack of 500	Case of 5000
5.75" (146mm)	**13-711-5AM**	57.00	57.00
5.88" (149.3mm)	**13-711-6M**	70.14	70.14

Standard Bulb Pipets

Single squeeze draws up to 3.2mL

13-711-9D

- With or without graduations
- 13-711-9D has 0.50mL graduations

Type	Length	Capacity	Cat. No.	Pack of 500	Case of 10 Packs
Nongraduated, Nonsterile	5.88" (149.3mm)	7.7mL	**13-711-7M**	56.40	448.00
Graduated	6" (155mm)	7.5mL	**13-711-9D**	54.40	444.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Disposable Graduated Transfer Pipettes

Sterile pipettes are used for special applications in microbiology, bacteriology, research

- Available gamma radiation-sterilized or nonsterile
- With 0.25mL graduations
- 5.8mL capacity
- Draw 3.4mL per squeeze
- Seal with Cat. No. 02-678 Hemato-Seal™ Tube Sealant

ORDERING INFORMATION:
Available individually wrapped in peel-apart sleeve, or bulk packaged in easy-open bags of 10 or 20.

13-711-9AM

Approx. Length	Inner Packaging	Cat. No.	Pack of 500	Case of
Sterile				
6" (152.4mm)	Individually wrapped	**13-711-20**	107.80	8 Pk./747.50
6" (152.4mm)	10/Bag	**13-711-9BM**	93.60	8 Pk./619.50
6" (152.4mm)	20/Bag	**13-711-9CM**	86.70	8 Pk./539.00
Nonsterile				
6" (152.4mm)	----	**13-711-9AM**	55.40	10 Pk./421.50

Thermo Scientific™ Samco™ Polyethylene Transfer Pipets

Single-unit design features a built-in pipet bulb that eliminates need for plugging, packaging, autoclaving; prevents cross-contamination

13-711-37 to -40

Samco transfer pipets are made of shatterproof, nontoxic polyethylene. Their low-affinity surface reduces loss of cells and valuable proteins due to binding. They can be frozen in liquid nitrogen, or heat sealed for storage.

Extra Long Transfer Pipets

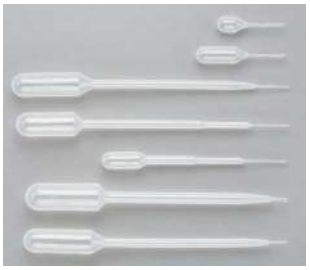
- Excellent for tissue culture applications
- General-purpose pipets are excellent for routine sampling of serum and plasma
- Ideally suited for blood culture and urine analysis

Description	Length	Bulb Draw	Drops/mL	Mfr. No.	Cat. No.	Pack of	Case of
6.0mL Extra Long Transfer Pipets, 9"	22.5cm	2.3mL	25	262	**13-711-37**	400/85.90	10 Pk./617.00
6.0mL Extra Long Transfer Pipets, 9", Individually Packed	22.5cm	2.3mL	25	262-1S	**13-711-38**	400/147.50	8 Pk./1040.00
6.0mL Extra Long Transfer Pipets, 9", Bags of 20	22.5cm	2.3mL	25	262-20S	**13-711-39**	400/89.40	8 Pk./625.50
23.0mL Extra Long Transfer Pipets, 12"	30.0cm	7.3mL	20	263	**13-711-40**	100/59.80	10 Pk./517.00

Fine Tip Transfer Pipets

For precise dispensing of small drops into small-volume containers

- Suitable for removing cell layers, separating blood samples, etc.
- With fine tip or extended fine tip



13-711-26 to -31

Description	Length	Bulb Draw	Drops/mL	Mfr. No.	Cat. No.	Pack of	Case of
5.8mL Fine Tip Transfer Pipets, Standard Bulb, Non-sterile	14.7cm	3.3mL	55	232	**13-711-26**	500/150.60	10 Pk./819.00
5.8mL Fine Tip Transfer Pipets, Standard Bulb, Sterile, Individually Packed	14.7cm	3.3mL	55	232-1S	**13-711-27**	400/136.40	8 Pk./960.50
5.8mL Fine Tip Transfer Pipets, Standard Bulb, Sterile, Bags of 20	14.7cm	3.3mL	55	232-20S	**13-711-28**	500/144.50	8 Pk./999.50
8.7mL Fine Tip Transfer Pipets, Large Bulb, Non-sterile	14.7cm	4.8mL	45	234	**13-711-30**	400/152.20	10 Pk./867.24
1.5mL Extended Fine Tip Transfer Pipets, Small Bulb, Non-Sterile	10.4cm	1.0mL	50	231	**13-711-25**	400/78.61	8 Pk./536.53
5.0mL Extended Fine Tip Transfer Pipets, Large Bulb, Non-sterile	15.3cm	3.3mL	50	233	**13-711-29**	250/137.40	8 Pk./953.00
5.8mL Extended Fine Tip Transfer Pipets, Standard Bulb, Non-sterile	15.7cm	3.5mL	50	235	**13-711-31**	500/110.90	10 Pk./932.50

Contd. on next page.

Thermo Scientific™ Samco™ Polyethylene Transfer Pipets, Contd.

General-Purpose Transfer Pipets

Single-unit design with built-in pipet bulb

- Excellent for tissue culture applications
- General-purpose pipets are excellent for routine sampling of serum and plasma
- Ideally suited for blood culture and urine analysis

13-711-21 to -5B

Description	Length	Bulb Draw	Drops/mL	Mfr. No.	Cat. No.	Pack of	Case of
7.7mL General Purpose Transfer Pipets, Standard Bulb, Individually Packed	15.6cm	3.2mL	20	202-1S	**13-711-21**	500/86.10	8 Pk./596.00
7.7mL General Purpose Transfer Pipets, Standard Bulb	15.6cm	3.2mL	20	202-20S	**13-711-22**	500/70.70	8 Pk./520.00
8.0mL General Purpose Large Bulb Transfer Pipets	15.1cm	4.6mL	20	204-MON	**13-711-23**	400/64.00	10 Pk./409.00
1.7mL B/B-PET™ Transfer Pipets (Blood Bank)	8.7cm	0.9mL	25	273	**13-711-41**	500/63.50	8 Pk./378.50
4.0mL B/B-PET Transfer Pipets (Blood Bank)	12.9cm	1.9mL	25	335	**13-711-47**	400/57.40	10 Pk./459.00
5.0mL B/B-PET Transfer Pipets, 6", Individually Packed	15.4cm	1.9mL	23	336-1S	**13-711-48**	500/106.50	8 Pk./783.50
5.0mL B/B-PET Transfer Pipets	15.4cm	1.9mL	23	336-20S	**13-711-49**	500/88.20	8 Pk./611.50
62µL Large Aperature Transfer Pipets	13.7cm	4.8mL	—	691	**13-711-5B**	250/39.20	10 Pk./335.00

Graduated Transfer Pipets

For more accurate measurements

- Made of shatterproof, nontoxic polyethylene
- Low-affinity surface reduces loss of cells and valuable proteins due to binding
- Can be frozen in liquid nitrogen, or heat sealed for storage

13-711-24

Description	Length	Bulb Draw	Drops/mL	Mfr. No.	Cat. No.	Pack of	Case of
3.9mL Graduated Transfer Pipets, Small Bulb	14.0cm	2.2mL	25	212	**13-711-24**	500/57.90	10 Pk./453.50
7.5mL Graduated Transfer Pipets, Large Bulb, 3.2mL Draw, Graduated 0.50 To 3mL	15.5cm	3.2mL	20	225-20S	**13-711-50**	4000/510.50	----
4.8mL B/B-PET™ Transfer Pipets (Blood Bank)	15.2cm	1.8mL	24	274	**13-711-42**	500/65.80	10 Pk./553.50
1.5mL Graduated Transfer Pipet, Pediatric, Graduated To 0.3mL	11.6cm	0.8mL	21	282	**13-711-43**	500/51.10	8 Pk./357.50

Narrow Stem Transfer Pipets

Bend flexible stem to sample from narrow or small tubes

- Made of shatterproof, nontoxic polyethylene
- Low-affinity surface reduces loss of cells and valuable proteins due to binding
- Can be frozen in liquid nitrogen, or heat sealed for storage

13-711-32 to -36

Description	Length	Bulb Draw	Drops/mL	Mfr. No.	Cat. No.	Pack of	Case of
1.2mL Sedi-Pet™ Transfer Pipets, Short Stem	6.4cm	0.9mL	25	241	**13-711-32**	500/69.40	8 Pk./421.00
4.0mL Sedi-Pet Transfer Pipets, Short Stem, Large Bulb	8.5cm	3.0mL	25	242	**13-711-33**	500/67.90	10 Pk./581.50
4.6mL Sedi-Pet Transfer Pipets, Narrow Stem, Individually Packed	15.5cm	3.3mL	25	251-1S	**13-711-34**	500/123.10	8 Pk./878.00
4.6mL Sedi-Pet Transfer Pipets, Narrow Stem	15.5cm	3.3mL	25	251-20S	**13-711-35**	500/91.40	8 Pk./639.00
15.0mL Sedi-Pet Transfer Pipets, Narrow Stem, Large bulb	15.5cm	8.0mL	19	252	**13-711-36**	250/66.90	10 Pk./536.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Disposable - Aspirating

Falcon™ Disposable Aspirating Pipets

Safer alternative to glass Pasteur pipets

13-675-10CC

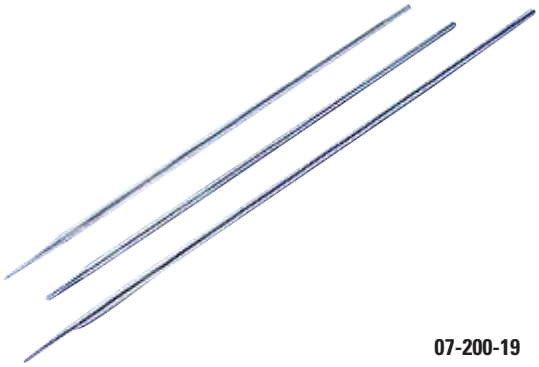
- Polystyrene
- Convenient for removing spent media from tissue culture vessels
- No need to autoclave and repackage
- Ungraduated, unplugged, sterile, nonpyrogenic
- Regulatory status: Class I Medical

ORDERING INFORMATION:
All sizes come individually wrapped, 200 per case

Capacity	Mfr. No.	Cat. No.	Case of 200
2mL	357558	**13-675-16**	81.91
5mL	357501	**13-675-10CC**	107.00

Costar™ Disposable Aspirating Pipets

For aseptically aspirating liquids by using vacuum suction

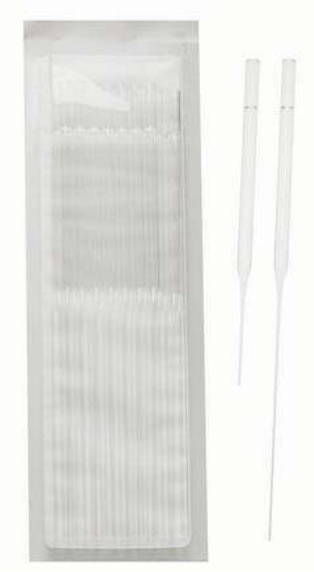


07-200-19

- One piece polystyrene construction
- Sterile and certified nonpyrogenic
- No graduations; unplugged
- Tip shape: round

Capacity	Packaging	Mfr. No.	Cat. No.	Case of
2mL	Individually Wrapped, Clear Plastic Wrap	9186	**07-200-19**	1000/631.00
5mL	Individually Wrapped, Clear Plastic Wrap	9099	**07-200-20**	200/161.19

Kimble-Chase Kontes™ Sterile Disposable Pasteur Pipet



13-678-651

- Produced from soda-lime, gamma-irradiated glass
- Offered in 5.75 in. and 9 in. lengths along with cotton-plugged and non-plugged options
- Feature constricted tops for cotton plugging

Length	Cotton Plug	Mfr. No.	Cat. No.	Case of 250
5.75"	No	63A55	**13-678-651**	56.20
9"	No	63B95	**13-678-653**	59.70
5.75"	Yes	63A55P	**13-678-652**	69.80
9"	Yes	63B95P	**13-678-654**	78.00

Milk Bacteriological

Fisherbrand® Nonsterile Reusable Borosilicate Glass Milk Bacteriological Pipets

With permanent markings, Tuf-Temp™ treated

13-670D

- Calibrated "To Deliver" indicated amount of milk at 68°F (20°C)

COMPLIANCE:
Meet current APHA specifications

NOTES:
Some states require that a special state agency approve these pipets before use; verify requirements for your state. Accuracy printed on pipets applies to milk only.

Capacity (mL)	Subdivision (mL)	Tolerance (mL)	Color Code	Cat. No.	Case of 12
1	----	±0.025	Blue	**13-670A**	128.90
1.1	1.1, 1.0	±0.025	2 Green	**13-670B**	97.60
1.1	1.1, 1.0, 0.5	±0.025	----	**13-670C**	106.00
2.2	2.2, 2.1, 2.0, 1.0	±0.04	----	**13-670D**	119.50
5	----	±0.10	White	**13-670E**	157.20
10	----	±0.10	Red	**13-670F**	177.90
11	----	±0.10	----	**13-670G**	181.70

Fisherbrand® Sterile Disposable Borosilicate Glass Milk Bacteriological Pipets

12-724-1

- 1.1mL size also used for milk phosphatase test

ORDERING INFORMATION:
Packed sterile in bags of 250

COMPLIANCE:
Calibrated "To Deliver." Meet APHA requirements for making milk dilutions.

Capacity (mL)	Subdivision (mL)	Tolerance (mL)	Cat. No.	Case of 1000
1.1	0.5, 1.0, 1.1	±0.025	**12-724**	422.50
2.2	1.0, 2.0, 2.1, 2.2	±0.040	**12-724-1**	439.50

Kimble-Chase Sterile Disposable Polystyrene Milk Bacteriological Pipet

1.1mL polystyrene pipet with plugged mouth end

12-724-12

- Graduations at 0.5, 1.0 and 1.1mL
- Black scale

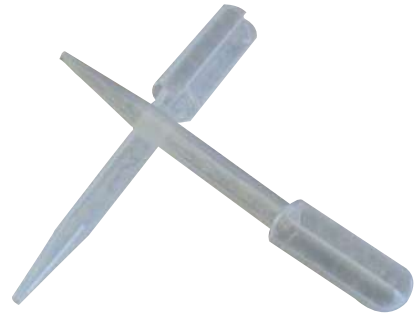
COMPLIANCE:
Calibrated "To Deliver/Blow Out" for measurement of diluted and undiluted milk, as prescribed in Standard Methods for the Analysis of Dairy Products, APHA

Packaging	Capacity (mL)	Tolerance (mL)	Mfr. No.	Cat. No.	Case of 1000
Bulk	1.1	±0.025	FS56400-11	**12-724-10**	490.00
Individually wrapped	1.1	±0.025	56404-11	**12-724-12**	576.00

Dropping Pipets

Thermo Scientific™ Nalgene™ One-Piece Disposable Droppers; LDPE

Bellows-type bulb provides excellent drop formation — 30 to 35 drops/mL



13-711-10

- Molded in one piece, the dropper bulb provides excellent drop formation
- Safe and economical to use and easy to clean for repeatable performance
- Nonwetting with a tapered tip delivers 30 to 35 drops per mL
- Chemically compatible with most acids, bases and alcohols

Approx. Length	Capacity (mL)	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pack
2.7" (68mm)	1.6	6219-0068	**13-711-10**	62.50	420.00

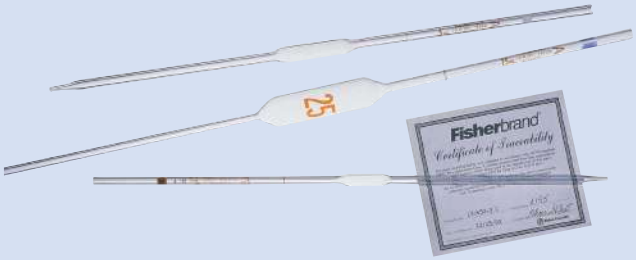
*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Reusable Volumetric

Fisherbrand® Reusable Class A Volumetric Pipets

Standard or serialized

- Borosilicate glass
- Volume accuracy marked on each pipet
- Permanent amber markings
- Tuf-Temp™-treated tempered tips reduce chipping



(Top to bottom) 13-650-3F, 13-650-3P, 13-650-3C

ORDERING INFORMATION:
All pipets are available as PersonaPet™ personalized pipets.

COMPLIANCE:
Standard Pipets meet all Class A requirements of ASTM™ E 969-95. Letter A near top signifies compliance with requirements for laboratory certification by CAP and other certifying groups. Calibrated "To Deliver". Serialized Pipets with Certificates of Traceability are calibrated in accordance with ASTM E 542 and meet accuracy requirements of ASTM E 969. Glass meets the requirements of ASTM E 438 for Type I, Class A.

CERTIFICATIONS:
Serialized Pipets are NIST traceable and are supplied with individual fused-in serial numbers and Certificates of Traceability, which indicate that each pipet is individually calibrated and certified against equipment whose calibration is traceable to the National Institute of Standards and Technology (NIST). Certificates list the weight set used, the test number and date of testing.

				Standard			Serialized	
Capacity (mL)	Accuracy (mL)	Min. Flow Time (Sec.)	Color Code	Cat. No.	Each	Case of	Cat. No.	Case of 6
0.5	±0.006	5	2 Black	**13-650-2A**	----	12/155.00	**13-650-3A**	155.80
1	±0.006	8	Blue	**13-650-2B**	----	12/166.40	**13-650-3B**	141.90
2	±0.006	8	Orange	**13-650-2C**	----	12/168.10	**13-650-3C**	179.70
2.5	±0.006	8	----	**13-650-2Y**	----	12/276.00	**13-650-3Y**	282.50
3	±0.01	8	Black	**13-650-2D**	----	12/169.00	**13-650-3D**	203.50
4	±0.01	8	2 Red	**13-650-2E**	----	12/170.80	**13-650-3E**	210.00
5	±0.01	8	White	**13-650-2F**	----	12/166.40	**13-650-3F**	214.00
6	±0.01	10	2 Orange	**13-650-2G**	----	12/171.70	**13-650-3G**	215.50
7	±0.01	10	2 Green	**13-650-2H**	----	12/171.70	**13-650-3H**	206.50
8	±0.02	10	Blue	**13-650-2J**	----	12/166.60	**13-650-3J**	206.50
9	±0.02	10	Black	**13-650-2K**	----	12/166.70	**13-650-3K**	206.50
10	±0.02	15	Red	**13-650-2L**	----	12/178.42	**13-650-3L**	231.50
12	±0.02	25	----	**13-650-2X**	----	12/467.50	**13-650-3X**	655.00
15	±0.03	25	Green	**13-650-2M**	22.80	12/226.00	**13-650-3M**	376.00
20	±0.03	25	Yellow	**13-650-2N**	24.45	12/242.00	**13-650-3N**	376.00
25	±0.03	25	Blue	**13-650-2P**	25.85	12/256.00	**13-650-3P**	418.50
30	±0.03	25	Black	**13-650-2Q**	34.50	12/343.50	**13-650-3Q**	385.50
40	±0.05	25	White	**13-650-2R**	34.50	12/343.50	**13-650-3R**	432.00
50	±0.05	25	Red	**13-650-2S**	34.25	12/340.00	**13-650-3S**	453.00
75	±0.08	30	Green	**13-650-2T**	49.30	12/490.00	**13-650-3T**	382.00
100	±0.08	30	Yellow	**13-650-2U**	48.55	12/483.00	**13-650-3V**	456.50
200	±0.16	30	----	**13-650-2W**	70.00	4/234.50	**13-650-3W**	137.20

Fisherbrand® Reusable Class B Volumetric Pipets

Ensure highest accuracy, reproducibility

- Borosilicate glass
- Permanent amber markings
- Large numeral on bulb of 15mL and larger pipets makes capacity easy to identify
- Accuracy printed on each pipet
- Tuf-Temp™-treated tempered tips reduce chipping
- Fast outflow

13-650L

ORDERING INFORMATION:
Available as PersonaPet™ personalized pipets.

COMPLIANCE:
Calibrated "To Deliver". Meet Class B volume accuracy and flow time requirements of ASTM™ E 969-95.

Capacity (mL)	Accuracy (mL)	Min. Flow Time (sec.)	Color Code	Cat. No.	Each	Case of 12
0.5	±0.012	3	2 Black	**13-650A**	----	140.20
1	±0.012	3	Blue	**13-650B**	----	139.50
2	±0.012	3	Orange	**13-650C**	----	137.66
2.5	±0.012	5	----	**13-650Y**	----	276.50
3	±0.02	5	Black	**13-650D**	----	150.21
4	±0.02	5	2 Red	**13-650E**	----	147.29
5	±0.02	8	White	**13-650F**	----	149.00
6	±0.03	8	2 Orange	**13-650G**	----	166.00
7	±0.03	8	2 Green	**13-650H**	----	164.08
8	±0.04	8	Blue	**13-650J**	----	163.66
9	±0.04	8	Black	**13-650K**	----	43.35
10	±0.04	8	Red	**13-650L**	----	164.60
15	±0.06	10	Green	**13-650M**	27.45	277.00
20	±0.06	10	Yellow	**13-650N**	27.25	274.50
25	±0.06	15	Blue	**13-650P**	27.60	279.00
30	±0.10	15	Black	**13-650Q**	35.70	355.00
40	±0.10	15	White	**13-650R**	35.75	355.50
50	±0.10	15	Red	**13-650S**	31.65	315.00
75	±0.16	20	Green	**13-650T**	44.70	444.50
100	±0.16	20	Yellow	**13-650U**	45.45	452.00
200	±0.32	30	----	**13-650V**	56.40	566.00

Fisherbrand® Reusable CulturTek™ Volumetric Pipets

Large tip opening fills and drains quickly, speeds cell transfers

Originally developed for in-house tissue culture cell production at Smith, Kline and French Laboratories. Heavy borosilicate glass provides greater resistance to chipping and breakage than conventional volumetric pipets.

- Tip openings approximately 4mm
- Reinforced tip and mouthpiece bulb joints
- Shorter length makes pipets easier to handle
- With permanent amber markings
- Top tooled for cotton plugs (plugs not supplied)

13-650-30A

ORDERING INFORMATION:
Available as PersonaPet™ personalized pipets.

COMPLIANCE:
Calibrated "To Deliver."

Capacity (mL)	Accuracy (mL)	Color Code	Cat. No.	Each	Case of 12
25	±0.10	Blue	**13-650-30A**	27.50	271.00
50	±0.10	Red	**13-650-30B**	32.20	317.00
100	±0.20	Yellow	**13-650-30C**	43.97	439.71

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimax™ Reusable Class A Volumetric Serialized Pipets

Autoclavable

13-660 Series

- Meet standards of former NBS circular 602 for accuracy, appearance, quality of glass, calibration lines and inscription Both serialized and standard volumetric pipets have tempered ends calibrated "To Deliver"
- Each serialized/certified pipet is permanently marked with an individual serial number and comes with a Certificate of Graduation Accuracy
- The 20, 25 and 100mL pipets come with six certificates per case; 50mL pipets, eight per case
- All other sizes are supplied with two certificates per case

CERTIFICATIONS:
Marked with "A" to certify that they are designed from ASTM™ Specification E 969, Class A requirements

Length	Capacity	Color Code	Tolerance (mL)	Mfr. No.	Cat. No.	Pack of	Case of
310mm	1mL	Blue	±0.006	37010-1	**13-660A**	6/151.30	2 Pk./224.50
335mm	2mL	Orange	±0.006	37010-2	**13-660B**	6/194.10	2 Pk./288.00
350mm	3mL	Black	±0.01	37010-3	**13-660C**	6/224.00	2 Pk./331.00
350mm	4mL	2 Red	±0.01	37010-4	**13-660D**	6/246.50	2 Pk./364.00
365mm	5mL	White	±0.01	37010-5	**13-660E**	6/250.50	2 Pk./369.50
400mm	10mL	Red	±0.02	37010-10	**13-660F**	6/264.50	2 Pk./390.50
505mm	20mL	Yellow	±0.03	37010-20	**13-660H**	----	12/500.50
505mm	25mL	Blue	±0.03	37010-25	**13-660J**	----	12/500.50
545mm	50mL	Red	±0.05	37010-50	**13-660K**	----	8/396.50
550mm	100mL	Yellow	±0.08	37010-100	**13-660L**	----	6/360.00

Kimax™ Reusable Class A Volumetric Standard Pipets

Autoclavable

13-660-5D

- Meet standards of former NBS circular 602 for accuracy, appearance, quality of glass, calibration lines and inscription
- Both serialized and standard volumetric pipets have tempered ends calibrated "To Deliver"
- Each serialized/certified pipet is permanently marked with an individual serial number and comes with a Certificate of Graduation Accuracy
- The 20, 25 and 100mL pipets come with six certificates per case; 50mL pipets, eight per case
- All other sizes are supplied with two certificates per case

CERTIFICATIONS:
Marked with "A" to certify that they are designed from ASTM™ Specification E 969, Class A requirements

Capacity (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Pack of
0.5	±0.006	2 Black	37004-510	**K37004-510**	12/165.10
1	±0.006	Blue	37004-1	**13-660-5A**	6/111.20
2	±0.006	Orange	37004-2	**13-660-5B**	6/111.20
3	±0.01	Black	37004-3	**13-660-5C**	6/111.80
4	±0.01	2 Red	37004-4	**13-660-5D**	6/112.40
5	±0.01	White	37004-5	**13-660-5E**	6/108.40
9	±0.02	Black	37004-9	**13-660-5R**	6/101.90
10	±0.02	Red	37004-10	**13-660-5F**	6/122.00
15	±0.03	Green	37004-15	**13-660-5M**	12/252.50
20	±0.03	Yellow	37004-20	**13-660-5H**	12/273.50
25	±0.03	Blue	37004-25	**13-660-5J**	12/292.50
30	±0.03	Black	37004-30	**13-660-5S**	6/209.00
40	±0.05	White	37004-40	**13-660-5T**	6/207.00
50	±0.05	Red	37004-50	**13-660-5K**	12/383.50
100	±0.08	Yellow	37004-100	**13-660-5L**	12/543.50

Pyrex™ Brand Large-Tip Opening Reusable Volumetric Pipets

Designed for schools and laboratories where Class A tolerances aren't required

13-678-100C

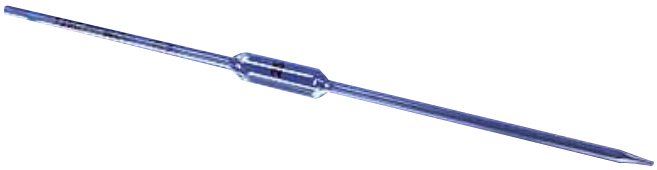
- Larger tip openings result in faster deliveries, which in turn account for higher tolerances
- Color coding on all but 50 and 100mL pipets permits easy sorting and identification by size

COMPLIANCE:
Calibrated "To Deliver," with tempered top and tip

Capacity (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Pack of	Case of
0.5	±0.012	2 Black	7102-1X	**13-650-5**	----	12/147.90
1	±0.012	Blue	7102-1	**13-650-6A**	----	12/146.50
2	±0.012	Orange	7102-2	**13-678-100B**	----	6/168.20
3	±0.02	Black	7102-3	**13-678-100C**	----	12/167.10
4	±0.02	Red	7102-4	**13-678-100D**	----	12/151.40
5	±0.02	White	7102-5	**13-678-100E**	6/104.30	2 Pk./155.10
10	±0.04	Red	7102-10	**13-650-6F**	----	12/175.10
15	±0.06	Green	7102-15	**13-678-100A**	----	6/269.50
20	±0.06	Yellow	7102-20	**13-650-6H**	----	12/251.50
25	±0.06	Blue	7102-25	**13-650-6J**	----	12/263.50
50	±0.10	---	7102-50	**13-650-5K**	----	12/352.00
100	±0.16	---	7102-100	**13-650-5L**	----	12/496.50

Pyrex™ Brand Reusable Class A Volumetric Pipets

Borosilicate-glass with fire-polished top and tip



13-646 Series

- All pipets have colored graduations enameled onto glass
- Sizes 1 to 25mL are color-coded by size for ease in sorting and selecting
- New design of 50mL size allows better drainage

COMPLIANCE:
Calibrated "To Contain" (TC - bottom line) and "To Deliver" (TD - top line)

NOTES:
Do not pipet by mouth. Use mechanical pipetting device.

Capacity (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of 6
Standard					
1	±0.01	Blue	7103-1	**13-646-32**	102.20
10	±0.02	Red	7103-10	**13-646-33**	124.80
15	±0.03	Green	7103-15	**13-646-34**	138.70
2	±0.01	Orange	7103-2	**13-646-35**	102.20
20	±0.03	Yellow	7103-20	**13-646-36**	157.50
25	±0.03	Blue	7103-25	**13-646-37**	157.50
3	±0.01	Black	7103-3	**13-646-38**	111.90
4	±0.01	Red	7103-4	**13-646-39**	112.40
5	±0	White	7103-5	**13-646-40**	102.20
6	±0.01	Orange	7103-6	**13-646-41**	115.30
7	±0.01	Green	7103-7	**13-646-42**	116.50
8	±0.02	Blue	7103-8	**13-646-43**	115.30
Serialized/Certified					
1	±0.006	Blue	7103C-1	**13-646-48**	146.80
2	±0.006	Orange	7103C-2	**13-646-49**	149.20
3	±0.01	Black	7103C-3	**13-646-50**	152.60
4	±0.01	Red	7103C-4	**13-646-51**	161.70
5	±0.01	White	7103C-5	**13-646-52**	156.60
6	±0.01	Orange	7103C-6	**13-646-53**	160.00
7	±0.01	Green	7103C-7	**13-646-54**	166.80
8	±0.02	Blue	7103C-8	**13-646-55**	172.00
9	±0.02	Black	7103C-9	**13-646-56**	173.42
10	±0.02	Red	7103C-10	**13-646-57**	179.80
15	±0.03	Green	7103C-15	**13-646-58**	201.00
20	±0.03	Yellow	7103C-20	**13-646-59**	201.50
25	±0.03	Blue	7103C-25	**13-646-60**	213.00

Pyrex™ Brand Reusable Class A Standard Volumetric Pipets

Borosilicate-glass with fire-polished top and tip

13-651-1E

COMPLIANCE:
Calibrated "To Deliver" with tolerances in accordance with ASTM™ E 542 and E 969

NOTES:
Do not pipet by mouth. Use mechanical pipetting device.

Capacity (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of 12
1	±0.006	Blue	7100-1	**13-651-1A**	156.49
2	±0.006	Orange	7100-2	**13-651-1B**	156.49
3	±0.01	Black	7100-3	**13-651-1C**	160.40
4	±0.01	Red	7100-4	**13-651-1D**	160.40
5	±0.01	White	7100-5	**13-651-1E**	156.49
10	±0.02	Red	7100-10	**13-651-1K**	174.23
15	±0.03	Green	7100-15	**13-651-1L**	245.00
20	±0.03	Yellow	7100-20	**13-651-1M**	261.50
25	±0.03	Blue	7100-25	**13-651-1N**	279.50
50	±0.05	----	7100-50	**13-651P**	367.50
100	±0.08	----	7100-100	**13-651Q**	520.50

Pyrex™ Brand Reusable Class A Volumetric Serialized/Certified Pipets

Borosilicate-glass with fire-polished top and tip

13-651-11D

COMPLIANCE:
Calibrated "To Deliver" with tolerances in accordance with ASTM™ E 542 and E 969

CERTIFICATIONS:
Each serialized pipet has a permanently marked serial number and Certificate of Identification and Capacity traceable to standards provided by NIST™.

NOTES:
Do not pipet by mouth. Use mechanical pipetting device.

Capacity (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of 6
1	±0.006	Blue	7101-1	**13-651-11**	118.10
2	±0.006	Orange	7101-2	**13-651-11A**	149.90
3	±0.01	Black	7101-3	**13-651-11B**	173.70
4	±0.01	Red	7101-4	**13-651-11C**	190.20
5	±0.01	White	7101-5	**13-651-11D**	196.10
10	±0.02	Red	7101-10	**13-651-11E**	206.50
15	±0.03	Green	7101-15	**13-651-11F**	254.50
20	±0.03	Yellow	7101-20	**13-651-11G**	259.50
25	±0.03	Blue	7101-25	**13-651-11H**	259.50
50	±0.05	---	7101-50	**13-651-11J**	308.00
100	±0.08	---	7101-100	**13-651-11K**	373.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Reusable Serological

Fisherbrand® Dual-Purpose Pipets

Sizes through 0.3mL have twice the accuracy required for Ostwald-Folin pipets

11-382-33 Series

- Borosilicate glass, permanent amber markings, Tuf-Temp™-treated to reduce chipping
- Accuracy printed on each pipet
- Capacity marked below mouthpiece

ORDERING INFORMATION:
Available as PersonaPet™ personalized pipets

COMPLIANCE:
Calibrated "To Deliver/Blow Out" (upper graduation) and "To Contain" (lower graduation).

Capacity (mL)	Accuracy (mL)	Cat. No.	Case of 12
0.1	±0.003	**11-382-33A**	192.80
0.2	±0.003	**11-382-33B**	192.80
0.25	±0.003	**11-382-33C**	190.10
0.3	±0.003	**11-382-33D**	43.41
0.5	±0.006	**11-382-33E**	177.13
1.0	±0.006	**11-382-33F**	179.90
2.0	±0.006	**11-382-33G**	177.34
2.5	±0.01	**11-382-33H**	200.85
3.0	±0.01	**11-382-33J**	200.56
4.0	±0.01	**11-382-33K**	200.52
5.0	±0.01	**11-382-33L**	200.85
10.0	±0.02	**11-382-33M**	236.58

Fisherbrand® Dye Industry Pipets

Perfect for pipetting dark-color dye solutions

13-671-109M

Just fill pipet to desired volume and read — no time-consuming draining as with conventional pipets.

- White graduations stand out against background of dark dye; easier to see and read than conventional amber markings
- Inverse scale — volume graduations start with 0 at tip
- Color coded for quick, accurate identification
- Catalog number, capacity and accuracy marked on each pipet
- Tough borosilicate glass; Tuf-Temp™-treated to reduce chipping

COMPLIANCE:
Calibrated "To Deliver/Blow Out."

Capacity (mL)	Accuracy (mL)	Color Code	Cat. No.	Case of 12
1 in 0.01	±0.02	Yellow	**13-671-109F**	147.10
2 in 0.1	±0.02	Green	**13-671-109H**	161.50
5 in 0.1	±0.04	Blue	**13-671-109K**	147.10
10 in 0.1	±0.06	Orange	**13-671-109M**	165.70
25 in 0.5	±0.10	White	**13-671-109N**	317.52

Fisherbrand® Large Tip Opening Serological Pipets

Ideal for viscous solutions and tissue culture work

13-671-108 Series

- Tops formed for cotton plugging (plugs not included) will fit cotton plugging machines
- 1mL size has approximately 0.1" (2.5mm) tip opening; other sizes have approximately 0.12" (3mm) tip opening
- Accuracy printed on each pipet
- Borosilicate glass with permanent amber markings
- Tuf-Temp™ treated to reduce chipping
- All Fisherbrand Reusable Serological Pipets also available as PersonaPet™ personalized pipets

COMPLIANCE: Calibrated "To Deliver/Blow Out."

Capacity (mL)	Accuracy (mL)	Color Code	Cat. No.	Case of 12
1 in 0.1	±0.05	Red	**13-671-108A**	224.04
2 in 0.1	±0.05	Green	**13-671-108B**	255.38
5 in 0.1	±0.10	Blue	**13-671-108C**	211.00
10 in 0.1	±0.10	Orange	**13-671-108D**	207.50
25 in 0.1	±0.20	White	**13-671-108E**	292.98

Fisherbrand® Reusable Cotton-Plug Top Serological Pipets

Fast, uniform flow times

13-671-102A

- Constriction in glass top prevents cotton plug from going down into pipet (plugs not included)
- Accuracy printed on each pipet
- Borosilicate glass with permanent amber markings
- Tuf-Temp™ treated to reduce chipping
- All Fisherbrand Reusable Serological Pipets also available as PersonaPet™ personalized pipets

ORDERING INFORMATION: Also available in economical bulk packs

REQUIRES: Cotton plugs

COMPLIANCE: Calibrated "To Deliver/Blow Out." Meet requirements of ASTM™ E 1044-96, Style II-Cotton Plugging Mouthpiece.

			Standard Pack		Bulk Pack	
Capacity (mL)	Accuracy (mL)	Color Code	Cat. No.	Case of 12	Cat. No.	Case of 250
0.1 in 0.01	±0.005	White	**13-671-102A**	142.30	----	----
0.2 in 0.01	±0.008	Black	**13-671-102C**	150.60	----	----
0.5 in 0.01	±0.01	Yellow	**13-671-102E**	51.70	----	----
1 in 0.01	±0.02	Yellow	**13-671-102F**	133.70	**13-676-53C**	1814.00
1 in 0.1	±0.02	Red	**13-671-102G**	114.50	**13-676-53D**	711.63
2 in 0.1	±0.02	Green	**13-671-102H**	133.00	**13-676-53F**	1955.00
2 in 0.01	±0.02	White	**13-671-102J**	181.74	----	----
5 in 0.1	±0.04	Blue	**13-675K**	131.30	**13-676-53G**	1686.00
10 in 0.1	±0.06	Orange	**13-675M**	138.60	**13-676-53H**	1801.00
25 in 0.1	±0.10	White	**13-675N**	265.50	**13-676-53J**	3160.00

Fisherbrand® Standard-Top Serological Pipets

Fast, uniform flow times

13-675 Series

- Accuracy printed on each pipet
- Borosilicate glass, permanent amber markings Tuf-Temp™ treated to reduce chipping
- All Fisherbrand Reusable Serological Pipets also available as PersonaPet™ personalized pipets
- Pipets 13-675D and 13-675E are recommended for VDRL test

ORDERING INFORMATION:
For 5, 10 and 25mL pipets, see Fisherbrand Cotton-Plug Top Pipets.

COMPLIANCE:
Calibrated "To Deliver/Blow Out." Meet requirements of ASTM™ E 1044-96, Style I-General-Purpose Top.

Capacity (mL)	Accuracy (mL)	Color Code	Cat. No.	Case of 12
0.1 in 0.01	±0.005	White	**13-675A**	126.00
0.2 in 0.01	±0.008	Black	**13-675C**	135.40
0.5 in 0.01	±0.01	Yellow	**13-675D**	151.40
0.5 in 0.05	±0.01	Black	**13-675E**	156.70
1 in 0.01	±0.02	Yellow	**13-675F**	130.60
1 in 0.1	±0.02	Red	**13-675G**	121.00
2 in 0.1	±0.02	Green	**13-675H**	135.10
2 in 0.01	±0.02	White	**13-675J**	213.50

Kimax-51™ Brand Reusable Serological Pipets

Tempered tip with permanent brown scale fused into uniform bore tubing without etching

13-674-32 Series

ORDERING INFORMATION: Plugs not included.

COMPLIANCE: Calibrated "To Deliver/Blow Out." Designed from ASTM™ E 1044.

With Tooled Opening

Capacity (mL)	Grad. (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of
0.2	0.01	±0.008	Black	37034A-210	**13-674-35B**	6/88.80
1	0.01	±0.02	Yellow	37034A-11100	**13-674-35D**	12/137.80
1	0.1	±0.02	Red	37034A-1110	**13-674-35E**	12/140.20
5	0.1	±0.04	Blue	37034A-5	**13-674-35H**	12/150.40
10	0.1	±0.06	Orange	37034A-10	**13-674-35J**	12/168.94
25	0.1	±0.10	White	37034A-25	**13-674-35K**	12/280.50

With Standard Tips and Mouths

Capacity (mL)	Subdivisions (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of 12
1	0.01	±0.02	Yellow	37033-11100	**13-674-32E**	142.40
5	0.1	±0.04	Blue	37033-5	**13-674-32H**	152.60
10	0.1	±0.06	Orange	37033-10	**13-674-32J**	152.30

Pyrex™ Brand Reusable, Color-Coded, Glass Serological Pipets

Color coded by size for easy identification and sorting

Capacity: 0.1 to 10mL

- Colored graduations are enameled onto the glass

13-671-101G

COMPLIANCE:
Calibrated "To Deliver"; must be blown out to obtain total rated capacity.
Meet ASTM™ E-1044.

Capacity (mL)	Grad. (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of
0.1	0.01	±0.005	White	7085-1X	**13-671-101A**	12/137.90
0.2	0.01	±0.008	Black	7085-2X	**11-850-49**	12/148.40
1.0	0.1	±0.02	Red	7085-1	**13-671-101C**	12/133.00
1.0	0.01	±0.02	Yellow	7085-1C	**13-671-101D**	12/146.80
2.0	0.1	±0.02	Green	7085-2	**13-671-101E**	12/148.20
2.0	0.01	±0.02	White	7085-2C	**13-678-97A**	6/215.00
5.0	0.1	±0.04	Blue	7085-5	**13-671-101F**	12/141.86
10.0	0.1	±0.06	Orange	7085-10	**13-671-101G**	12/149.20

Reusable Mohr (Measuring)

Fisherbrand® Measuring (Mohr) Standard-Taper Pipets

Accuracy printed on each pipet

13-665A

- Borosilicate glass
- Permanent amber markings
- Fast uniform flow
- Tuf-Temp™-treated to reduce chipping
- Available as PersonaPet™ personalized pipets

ORDERING INFORMATION:
For 5, 10 and 25mL pipets, see Fisherbrand Cotton-Plug Top Pipets.

COMPLIANCE:
Pipets meet requirements of Fed. Spec. NNN-P-350C, Style I-Standard Taper and ASTM™ E 1293-94. Calibrated "To Deliver" to baseline.

Capacity (mL)	Accuracy (mL)	Color Code	Cat. No.	Case of 12
0.1 in 0.01	±0.005	White	**13-665A**	137.70
1 in 0.01	±0.02	Yellow	**13-665F**	145.70
1 in 0.1	±0.02	Red	**13-665G**	129.80
2 in 0.1	±0.02	Green	**13-665H**	141.40
5 in 0.1	±0.04	Blue	**13-665K**	147.10
10 in 0.1	±0.06	Orange	**13-665M**	169.00
25 in 0.1	±0.10	White	**13-665N**	246.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Kimax-51™ Brand Reusable Mohr (Measuring) Pipets

Intended for chemical laboratory work — tip openings are smaller than usually desired for clinical laboratory operations

- Permanent brown, graduated scale fused into uniform bore tubing ending above taper
- Color coded by size for ease in sorting
- Tempered tips

COMPLIANCE:
Calibrated "To Deliver"

Class A Serialized/Certified Pipets

Subdivisions on all sizes are 0.1mL, except 13-664-10H where subdivisions are 0.01mL

13-664-10M

COMPLIANCE:
Designed from ASTM™ E 1293, Style 1, Class A requirements.

CERTIFICATIONS:
Each pipet has a permanently marked serial number and Certificate of Graduation Accuracy traceable to standards provided by NIST. The 25mL pipets come with one certificate for every two pipets; other sizes come with two certificates per case.

Capacity (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Price
1	±0.1	Red	37025-1110	**13-664-10G**	Pk. of 6/206.50
1	±0.01	Yellow	37025-11100	**13-664-10H**	12/421.50
2	±0.01	Green	37025-2	**13-664-10J**	Pk. of 6/287.86
5	±0.02	Blue	37025-5	**13-664-10K**	Pk. of 6/254.50
10	±0.03	Orange	37025-10	**13-664-10L**	Pk. of 6/340.00
25	±0.05	White	37025-25	**13-664-10M**	Ea./98.40

Class B Pipets

Rugged construction

13-664G

COMPLIANCE:
Designed from ASTM™ E 1293, Class B, Style 1 requirements.

Capacity (mL)	Subdivisions (mL)	Tolerance (mL)	Color Code	Mfr. No.	Cat. No.	Case of
0.1	0.01	±0.005	White	37020-110	**13-664A**	12/160.11
1	0.01	±0.02	Yellow	37020-11100	**13-664C**	12/156.00
1	0.1	±0.02	Red	37020-1110	**13-664D**	12/155.90
2	0.1	±0.02	Green	37020-2	**13-664E**	12/168.20
5	0.1	±0.04	Blue	37020-5	**13-664F**	12/168.20
10	0.1	±0.06	Orange	37020-10	**13-664G**	12/195.20
25	0.1	±0.10	White	37020-25	**13-664H**	12/255.82
50	0.2	±0.16	None	37020-50	**13-6641**	8/408.16

Cleaning Equipment

Fisherbrand® Pipet Sterilizing Boxes

Ideal for preventing breakage of costly pipets and glass tubes during sterilization either by autoclaving or dry heat

- Rugged stainless steel
- Standard round and square boxes hold pipets of any length
- Use of several boxes permits segregation of pipets by size or function
- With snug-fitting covers

03-475, 03-465

For Pipet Length	Dimensions	Cat. No.	Each
Round Boxes			
Any	2.5 dia. × 16.5"H (6.4 × 42cm)	**03-465**	113.43
Square Boxes			
Any	2L × 2W × 16.5"H (5.1 × 5.1 × 42cm)	**03-475**	119.32
Square Boxes for Pasteur Pipettes			
5.75" (15cm)	2L × 2W × 6"H (5.1 × 5.1 × 15.2cm)	**03-475-1**	96.87
9" (23cm)	2L × 2W × 9.25"H (5.1 × 5.1 × 23.5cm)	**03-475-5**	102.29

Thermo Scientific™ Nalgene™ Pipet Cleaning Equipment Sets

Complete set includes everything needed to clean pipets

- All are made of rugged, high-density polyethylene
- Components are also available separately except Cat No. 15-350-111C (sold only as a set)

INCLUDES:
One pipet jar, one basket and one washer/rinser of size indicated

15-350-111 Series

For Pipets up to	Mfr. No.	Cat. No.	Each
16"L (41cm)	5250-0040	**15-350-111A**	633.00
24"L (61cm)	5250-0050	**15-350-111B**	809.00
36"L (81cm)	DS5250-0060	**15-350-111C**	1299.00

Thermo Scientific™ Nalgene™ Pipet Washers/Rinsers

Attach to your sink water or DI tap and drain for repeated, automatic fill and empty cycling

- One piece, leakproof, weld-free
- High-density polyethylene is built for rugged use
- Large tubing diameter permits faster cycles and allows water to drain completely
- Water inlet designed to eliminate back siphoning of contaminated water into water line, even if pressure drops
- Slower cycling is achieved without attachments by turning down water source flow rate
- Work well on low water pressure

INCLUDES:
Clear plastic tubing for inlet and outlet.

15-350-95A

For Pipets up to	Overall Height	Mfr. No.	Cat. No.	Each	Case of
16"L (41cm)	30.5" (78cm)	5245-0040	**15-350-95A**	539.00	6/2160.00
24"L (61cm)	38" (97cm)	5245-0050	**15-350-95B**	641.50	4/1688.17

Boekel™ Stainless-Steel Pipet Dryer

Evaporates moisture from pipets by circulating hot air over all surfaces

- Holds 200 pipets up to 14.75" long (37.5cm)
- Accepts any standard pipet holder up to 5.5" in diameter (14cm)
- Mounted on 10.5" diameter (27cm) base

ORDERING INFORMATION:
For use with 15-350-5 Pipet Washer and metal baskets only. Electrical requirements: 115V, 275w

09-200

INCLUDES:
Neon pilot lamp and toggle switch, without pipet rack

Dimensions	Mfr. No.	Cat. No.	Each
5.5 Dia. × 23.5"H (14 × 60cm)	1372	**09-200**	1030.00

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

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Before You Buy **Pipetting Systems**

Thermo SCIENTIFIC

Consider Reproducibility of Results

- **Tips that do not loosen or fall off** – Pipettes with friction-seal system rely on a user's force to attach tips to the pipette, which varies from user to user.
- **Complete Seal on every channel** – It's a challenge to ensure a quality seal in daily pipetting. Loose tips can drop off or leak air, decreasing confidence in reproducibility of results.
- **Ergonomics** – Low attachment, ejection and plunger forces combined with lightweight models offer safe and comfortable use while minimizing the risk of Repetitive Strain Injuries (RSI).
- **Flexibility between lab ware formats** – Fewer repetitions for multiple applications increase research efficiency and quality.

Features To Look For:

Breakthrough ClipTip Technology

Achieve newfound confidence with the Thermo Scientific™ ClipTip™ Pipetting System that locks tips firmly in place so they will not loosen or fall off, regardless of application pressure. Whether you're using a single or multichannel pipette, the ClipTip pipetting system ensures a complete seal on every channel for precise sample volumes, saving valuable time to accelerate your discoveries.

- Tip is locked and sealed in place until ejected – no dropped tips that waste valuable samples
- Complete seal secures the sample volume in each tip for enhanced accuracy and precision
- Tips are attached and ejected with a light touch – eliminates the frustration of banging tips on the pipette

Manual Pipettes

F1-ClipTip Manual Pipetting System

Remarkably lightweight – Modern design further minimizes the risk of repetitive strain injuries (RSI)

Ergonomic Design – Offering low attachment, ejection and plunger forces for safe and comfortable use

Industry-leading lifetime warranty
With convenient online registration.

NEW! Electronic Pipettes

E1-ClipTip Electronic Pipetting System

A pipette for multiple applications – Choose from single channels, 8–16 channel multichannels, or 6–12 channel adjustable tip spacing multichannel pipettes within the volume range of 0.5 –1250µL.

Electronic tip ejection – Combined with index finger operation and designed for optimum comfort and ease of use.

Store up to 20 programs – Store 20 of your most common protocols with a specific name.

Pipetters

Single-Channel/Manual

Fisherbrand® Elite™ Adjustable-Volume Pipetters

- Fully autoclavable — entire pipetter can be steam autoclaved
- Extremely low plunger forces — work longer without fatigue and reduce the risk of RSI
- Soft-touch tip ejection — a gearing mechanism reducing tip ejection force up to 50%
- Ergonomic comfortable lightweight handle — comfortable grip and effortless tip attachment
- Optimal fit with SureOne™ pipetter tips — best pipetting performance
- Super blow-out piston — creates 150% bigger air push than conventional piston for delivery of the micro size drops

INCLUDES:
Calibration certificate and in-lab calibration tool.

WARRANTY:
Three years.

FBE00200

Range	Increments	Accuracy	Precision	SureOne Tip for Calibration	Mfr. No.	Cat. No.	Each
0.2-2µL	0.002µL	2.5 to 12.0%	2.0 to 10%	02-707-436	4680000	**FBE00002**	283.50
0.5-5µL	0.01µL	1.5 to 6.0%	1.0 to 5.0%	02-707-436	4680010	**FBE00005**	283.50
1-10µL	0.02µL	1.0 to 2.5%	0.5 to 2.0%	02-707-436	4680020	**FBE00010**	283.50
2-20µL	0.02µL	1.0 to 3.0%	0.4 to 1.5%	02-707-418	4680030	**FBE00020**	283.50
5-50µL	0.1µL	0.6 to 3.0%	0.3 to 2.5%	02-707-418	4680040	**FBE00050**	283.50
10-100µL	0.2µL	0.8 to 3.0%	0.2 to 1.0%	02-707-418	4680050	**FBE00100**	283.50
20-200µL	0.2µL	0.6 to 1.8%	0.2 to 0.7%	02-707-418	4680060	**FBE00200**	283.50
100-1000µL	1µL	0.6 to 1.0%	0.2 to 0.6%	02-707-401	4680070	**FBE01000**	283.50
0.5-5mL	0.01mL	0.5 to 2.0%	0.2 to 0.8%	02-707-467	4680080	**FBE05000**	283.50
1-10mL	0.02mL	0.5 to 2.0%	0.2 to 0.8%	02-707-466	4680090	**FBE10000**	283.50

Fisherbrand® Elite™ Pipetter Stand

Accomodates up to six pipetters

Mfr. No.	Cat. No.	Each
9420401	**FBESTAND**	49.30

FBESTAND

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ F1-ClipTip™ Single Channel Pipets

Ensures complete seal on every channel with minimal tip attachment and ejection force

You'll feel the difference the first time you hold the NEW F1-ClipTip pipetting system.

14-488-013

14-488-020

Innovative ClipTip Interlocking Tip Interface Technology

- Tip is locked and sealed in place until ejected — no dropped tips that waste valuable samples
- Complete seal to secure the sample volume in each tip for enhanced accuracy and precision
- Tips are attached and ejected with a light touch — eliminates the frustration of banging tips on the pipette

Ergonomic Design

- Offering low attachment, ejection and plunger forces for safe and comfortable use

Remarkably Lightweight

- Modern design protects user from the risk of Repetitive Strain Injuries (RSI)

Adjustable Comfort

- The 120° adjustable finger rest — for both right- and left-handed operator comfort — allows the hand to relax during pipetting cycles

Super Blow-Out

- 150% increase in air boost to ensure efficient delivery of micro-volumes and prevent capillary action†

Soft-Touch Tip Ejection

- Innovative gearing mechanism produces more downward force with less effort, releasing tips with a gentle push

Volume Lock Adjustment

- The secure volume setting prevents undesirable volume drift during operation

Industry-Leading Lifetime Warranty

- With convenient online registration

COMPLIANCE:
The F1-ClipTip pipetting system is CE-marked in accordance with IVD Directive in Europe.

CERTIFICATIONS:
Manufactured according to ISO 9001, ISO 14001 and ISO 13485.

Variable Volume Single Channel Pipets

Volume Range	Increments	Accuracy	Precision	ClipTip	Color Code	Mfr. No.	Cat. No.	Each
1 to 10µL	0.02µL	1.0 to 2.5%	0.5 to 2.0%	ClipTip 20	Pink	4641170	**14-488-013**	308.50
2 to 20µL	0.02µL	1.0 to 3.0%	0.4 to 2.5%	ClipTip 20	Pink	4641180	**14-488-014**	308.50
5 to 50µL	0.1µL	0.6 to 3.0%	0.3 to 2.5%	ClipTip 50	Violet	4641190	**14-488-015**	308.50
10 to 100µL	0.2µL	0.8 to 3.0%	0.2 to 1.0%	ClipTip 200	Yellow	4641200	**14-488-016**	308.50
20 to 200µL	0.2µL	0.6 to 1.8%	0.2 to 0.7%	ClipTip 200	Yellow	4641210	**14-488-017**	308.50
30 to 300µL	1µL	0.6 to 1.5%	0.2 to 0.6%	ClipTip 300	Orange	4641220	**14-488-018**	308.50
100 to 1000µL	1µL	0.6 to 1.0%	0.2 to 0.6%	ClipTip 1000	Blue	4641230	**14-488-019**	308.50

Fixed Volume Single Channel Pipets

Volume	Accuracy	Precision	ClipTip	Mfr. No.	Cat. No.	Each
1µL	4%	4%	ClipTip 20	4651170	**14-488-020**	230.00
5µL	1.4%	1.4%	ClipTip 20	4651180	**14-488-021**	230.00
10µL	0.9%	0.8%	ClipTip 20	4651190	**14-488-022**	238.50
20µL	0.7%	0.5%	ClipTip 20	4651200	**14-488-023**	238.50
25µL	0.6%	0.5%	ClipTip 50	4651210	**14-488-024**	230.00
50µL	0.6%	0.4%	ClipTip 50	4651220	**14-488-025**	238.50
100µL	0.4%	0.3%	ClipTip 200	4651230	**14-488-026**	230.00
200µL	0.4%	0.3%	ClipTip 200	4651240	**14-488-027**	230.00
250µL	0.4%	0.3%	ClipTip 300	4651250	**14-488-028**	238.50
500µL	0.3%	0.3%	ClipTip 1000	4651260	**14-488-029**	238.50
1000µL	0.3%	0.3%	ClipTip 1000	4651270	**14-488-030**	238.50

† *Available in 50µL models.*

ON THE WEB...
Looking for compatible pipet tips?
Visit www.fishersci.com and search for ClipTip

Thermo Scientific™ F1-ClipTip™ GLP Kits

Innovative F1-ClipTip pipetters along with everything you need for pipetting

You'll feel the difference the first time you hold the new F1-ClipTip pipetting system.

- Tip is locked and sealed in place until ejected — no dropped tips that waste valuable samples
- Complete seal to secure the sample volume in each tip — enhanced accuracy and precision
- Tips are attached and ejected with a light touch — eliminates the frustration of banging tips on the pipette

Ergonomic Design

- Offering low attachment, ejection and plunger forces for safe and comfortable use

Remarkably Lightweight

- Modern design protects user from the risk of Repetitive Strain Injuries (RSI)

Adjustable Comfort

- The 120° adjustable finger rest — for both right- and left-handed operator comfort — allows the hand to relax during pipetting cycles

Super Blow-out

- 150% increase in air boost to ensure efficient delivery of micro-volumes and prevent capillary action†

Soft-touch Tip Ejection

- Innovative gearing mechanism produces more downward force with less effort, releasing tips with a gentle push

Volume Lock Adjustment

- The secure volume setting prevents undesirable volume drift during operation

Industry-leading Lifetime Warranty

- With convenient online registration

Kit 1 includes:

- F1-ClipTip 1to10µL single channel
- F1-ClipTip 10 to100µL single channel
- F1-ClipTip 100 to1000µL single channel
- F-Series Stand
- ClipTip 20 rack
- ClipTip 200 rack
- ClipTip 1000 rack
- 25mL reservoir
- 25mL divided reservoir
- 100mL divided reservoir

14-488-039

Kit 2 includes:

- F1-ClipTip 2 to 20µL single channel
- F1-ClipTip 20 to 200µL single channel
- F1-ClipTip 100 to 1000µL single channel
- F1-ClipTip 30 to 30µL 8-channel
- F-Series Stand
- ClipTip 20 rack
- ClipTip 200 rack
- ClipTip 300 rack
- ClipTip 1000 rack
- 25mL reservoir
- 25mL divided reservoir
- 100mL divided reservoir

INCLUDES:
Each complete kit includes everything you need for Good Laboratory Pipetting.

COMPLIANCE:
The F1-ClipTip pipetting system is CE-marked in accordance with IVD Directive in Europe.

CERTIFICATIONS:
Manufactured according to ISO 9001, ISO 14001 and ISO 13485.

Description	Mfr. No.	Cat. No.	Each
F1-ClipTip GLP Kit 1	4701140	**14-488-039**	706.50
F1-ClipTip GLP Kit 2	4701150	**14-488-040**	1211.00

† Available in 50µL models and below

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Finnpipette™ F1 Adjustable-Volume Pipetters

Easy "set and forget" lock mechanism for simple volume adjustment

Combines all the features of the original Finnpipette with state-of-the-art innovations. Advanced Volume Gearing mechanism (AVG) is a self-supporting modular volume adjustment mechanism that enhances pipetting performance. Because it is separated from the pipetter body, its accuracy, precision and durability are significantly improved.

- Silver (Ag) ions create an antimicrobial surface that inhibits growth of bacteria, microbes and fungus
- Pipetting button rotates freely when not in locking position
- Finger rest can be adjusted 120° for optimal pipetting position
- Light, smooth pipetting action enables better results over longer periods
- Super blow-out piston with volumes of 50µL and below ensures delivery of micro-size drops
- Soft-touch tip ejection minimizes forces needed for tip ejection

WARRANTY:
Five years with web registration

14-386-308

Range	Increments	Accuracy (%)	Precision (CV%)	Compatible Finntip	Color Code	Mfr. No.	Cat. No.	Each
0.2 to 2µL, micro	0.002µL	±12.0 to 2.5	10.0 to 2.0	Flex 10, 10, 50	Pink	4641010	**14-386-300**	366.00
0.5 to 5µL, micro	0.01µL	±6.0 to 1.5	5.0 to 1.0	Flex 10, 10, 50	Pink	4641020	**14-386-301**	366.00
1 to 10µL, micro	0.02µL	±2.5 to 1.0	2.0 to 0.5	Flex 10, 10, 50	Pink	4641030	**14-386-302**	366.00
1 to 10µL	0.02µL	±3.5 to 1.0	3.0 to 0.8	Flex 200, 250 Univ.	Yellow	4641040	**14-386-303**	366.00
2 to 20µL micro	0.02µL	±3.0 to 1.0	2.5 to 0.4	50	Turquoise	4641050	**14-386-304**	366.00
2 to 20µL	0.02µL	±3.0 to 1.0	2.5 to 0.4	Flex 200, 250 Univ.	Yellow	4641060	**14-386-305**	366.00
10 to 100µL	0.2µL	±3.0 to 0.8	1.0 to 0.2	Flex 200, 250 Univ., 300, 200 Ext.	Yellow	4641070	**14-386-306**	366.00
20 to 200µL	0.2µL	±1.8 to 0.6	0.7 to 0.2	Flex 200, 250 Univ., 300, 200 Ext.	Yellow	4641080	**14-386-307**	366.00
30 to 300µL	1µL	±1.5 to 0.6	0.6 to 0.2	Flex 300, 300	Orange	4641090	**14-386-308**	366.00
100 to 1000µL	1µL	±1.0 to 0.6	0.6 to 0.2	Flex 1000, 1000, 1000 Ext.	Blue	4641100	**14-386-309**	366.00
0.5 to 5mL	0.01mL	±2.0 to 0.5	0.8 to 0.2	5mL	Green	4641110	**14-386-310**	366.00
1 to 10mL	0.02mL	±2.0 to 0.5	0.8 to 0.2	10mL, Flex 10mL Ext.	Red	4641120	**14-386-311**	366.00
5 to 50µL	0.1µL	±3.00 to 0.6	2.5 to 0.3	Finntip 50	Turquoise	4641130	**14-386-292**	366.00
5 to 50µL	0.1µL	±3 to 0.6	2.5 to 0.3	Finntip Flex 200, Finntip 250 Universal, Finntip Flex 300, Finntip 200 Extended	Yellow	4641140	**14-386-293**	366.00

Thermo Scientific™ Finnpipette™ F1 Fixed-Volume Pipetters

Light, smooth pipetting action with patented soft-touch tip ejection for maximum user comfort

Thermo Scientific Finnpipette F1 combines all the features that Finnpipette pipetters are famous for with state-of-the-art innovations. Antimicrobial treatment provides better protection against contamination.

- Antimicrobial surface: Silver (Ag) ions create a pipetter surface that inhibits the growth of bacteria, microbes and fungus
- Adjustable finger rest: Finger rest can be adjusted 120° for optimal pipetting position
- Light, smooth pipetting action: Enables better results over longer pipetting periods
- Super blow-out piston with volumes of 50µL and below: Ensures delivery of micro-size drops
- Proprietary soft-touch tip ejection: Minimizes forces needed for tip ejection

WARRANTY:
Five years, with web registration

14-386-331

Volume	Accuracy	Precision	Finntip	Mfr. No.	Cat. No.	Each
1µL	±4.0%	4.0%	Flex 10, 10, 50	4651000	**14-386-323**	267.50
5µL	±1.4%	1.4%	Flex 10, 10, 50	4651010	**14-386-324**	136.96
10µL	±0.9%	0.8%	Flex 200, 250 Univ., 200 Ext.	4651020	**14-386-325**	267.50
25µL	±0.6%	0.5%	Flex 200, 250 Univ., 200 Ext.	4651030	**14-386-326**	255.17
50µL	±0.6%	0.4%	Flex 200, 250 Univ., 200 Ext.	4651040	**14-386-327**	267.50
100µL	±0.4%	0.3%	Flex 200, 250 Univ., 200 Ext.	4651050	**14-386-328**	267.50
250µL	±0.4%	0.3%	Flex 1000, 1000, 1000 Ext.	4651060	**14-386-329**	264.50
500µL	±0.3%	0.3%	Flex 1000, 1000, 1000 Ext.	4651070	**14-386-330**	267.50
1000µL	±0.3%	0.3%	Flex 1000, 1000, 1000 Ext.	4651080	**14-386-331**	267.50
2000µL	±0.3%	0.2%	5mL	4651090	**14-386-332**	267.50
3000µL	±0.3%	0.2%	5mL	4651100	**14-386-333**	267.50
5000µL	±0.3%	0.2%	5mL	4651110	**14-386-334**	267.50
10,000µL	±0.3%	0.2%	10mL, Flex 10mL Ext.	4651120	**14-386-335**	267.50

Thermo Scientific™ Finnpipette™ F1 GLP Kits

State-of-the-art Finnpipette F1 pipetters in an all-inclusive kit

The Finnpipette F1 features antimicrobial surface; "set and forget" pipetting button. Each complete kit includes everything you need for Good Laboratory Pipetting.

Kit 1 includes:

Three Thermo Scientific Finnpipette Pipetters from 1 to 1000µL:

- Finnpipette F1, 1 to 10µL
- Finnpipette F1, 10 to 100µL
- Finnpipette F1, 100 to 1000µL
- Finntip™ Flex tips: 10, 1 × 96; 200, 1 × 96; 1000, 1 × 96
- F-stand; F1 pen; F1 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack
- USB-memory key

Kit 2 includes:

Four Thermo Scientific Finnpipette Pipetters from 0.2 to 1000µL:

- Finnpipette F1, 0.2 to 2µL
- Finnpipette F1, 2 to 20µL univ
- Finnpipette F1, 20 to 200µL
- Finnpipette F1, 100 to 1000µL
- Finntip Flex tips: 10, 1 × 96; 200, 2 × 96; 1000, 1 × 96
- F-stand; F1 pen; F1 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack
- USB-memory key

Kit 3 includes:

Three Thermo Scientific Finnpipette Pipetters from 10 to 10000µL:

- Finnpipette F1, 10 to 100µL
- Finnpipette F1, 100 to 1000µL
- Finnpipette F1, 1000 to 10,000µL
- Finntip Flex tips: 200, 1 × 96; 1000, 1 × 96; FT 10mL, 1 × 24 F-stand; F1 pen; F1 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack
- USB-memory key

Kit 4 includes:

Three Thermo Scientific Finnpipette Pipetters from 10 to 1000µL:

- Finnpipette F1, 2 to 20µL
- Finnpipette F1, 20 to 200µL
- Finnpipette F1, 100 to 1000µL
- Flex tips: (2) 200µL, 10 × 96; 100-1000µL, 10 × 96
- F-stand; F1 pen; F1 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack
- USB-memory key

05-719-507

ORDERING INFORMATION:

Good Laboratory Pipetting kit also includes samples of Finntip Flex for maximum performance and best ergonomics. The kit contains a Good Laboratory Pipetting guide offering a extensive information of pipetting and factors influencing to the pipetting results.

WARRANTY:

Five years

Description	Mfr. No.	Cat. No.	Each
F1 Kit 1, 1 to 1000µL	4700850	**05-719-507**	984.50
F1 Kit 2, 0.2 to 1000µL	4700860	**05-719-508**	1305.00
F1 Kit 3, 10 to 10,000µL	4700865	**05-719-509**	984.50
F1 Kit 4, 2 to 2000µL	4701060	**05-719-620**	984.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Finnpipette™ F2 Adjustable-Volume Pipetters

Large, easy-to-read, Ergovisio display

Offers superior comfort, performance, reliability and repeatability in one of the lightest pipetters available. Includes Advanced Volume Gearing mechanism (AVG), a self-supporting modular volume adjustment mechanism that enhances pipetting performance. Because it is separated from the pipetter body, its accuracy, precision and durability are significantly improved.

- Large Ergovisio display with white numbers on black background for increased visibility
- Double-action pipetting button; rotating upper part prevents accidental volume alteration
- Light, smooth pipetting action enables better results over longer periods
- Fully autoclavable; entire pipetter can be autoclaved
- Super blow-out piston with volumes of 50µL and below ensures delivery of micro-size drops

WARRANTY:
Five years with web registration

14-386-319

Range	Increments	Accuracy	Precision	Finntip	Color Code	Mfr. No.	Cat. No.	Each
0.2 to 2µL, micro	0.002µL	±12.0 to 2.5%	10.0 to 2.0%	Flex 10, 10, 50	Pink	4642010	**14-386-312**	359.00
0.5 to 5µL, micro	0.01µL	±6.0 to 1.5%	5.0 to 1.0%	Flex 10, 10, 50	Pink	4642020	**14-386-313**	359.00
1 to 10µL, micro	0.02µL	±2.5 to 1.0%	2.0 to 0.5%	Flex 10, 10, 50	Pink	4642030	**14-386-314**	359.00
1 to 10µL	0.02µL	±3.5 to 1.0%	3.0 to 0.8%	Flex 200, 250 Univ.	Yellow	4642040	**14-386-315**	359.00
2 to 20µL, micro	0.02µL	±3.0 to 1.0%	2.5 to 0.4%	50	Turquoise	4642050	**14-386-316**	359.00
2 to 20µL	0.02µL	±3.0 to 1.0%	2.5 to 0.4%	Flex 200, 250 Univ.	Yellow	4642060	**14-386-317**	359.00
10 to100µL	0.2µL	±3.0 to 0.8%	1.0 to 0.2%	Flex 200, 250 Univ., 300, 200 Ext.	Yellow	4642070	**14-386-318**	359.00
20 to 200µL	0.2µL	±1.8 to 0.6%	0.7 to 0.2%	Flex 200, 250 Univ., 300, 200 Ext.	Yellow	4642080	**14-386-319**	359.00
100 to1000µL	1µL	±1.0 to 0.6%	0.6 to 0.2%	Flex 1000, 1000, 1000 Ext.	Blue	4642090	**14-386-320**	359.00
0.5 to 5mL	0.01mL	±2.0 to 0.5%	0.8 to 0.2%	5mL	Green	4642100	**14-386-321**	359.00
1 to 10mL	0.02mL	±2.0 to 0.5%	0.8 to 0.2%	10mL, Flex 10mLl Ext.	Red	4642110	**14-386-322**	359.00

Thermo Scientific™ Finnpipette™ F2 Fixed-Volume Pipetters

Superior comfort, performance, reliability and repeatability

Fully autoclavable; entire pipetter can be autoclaved

- Super blow-out piston with volumes of 50µL and below ensures delivery of micro-size drops
- Light, smooth pipetting action enables better results over longer pipetting periods

WARRANTY:
Five years with web registration

14-386-344

Volume	Accuracy (%)	Precision (CV%)	Compatible Finntip	Mfr. No.	Cat. No.	Each
5µL	±1.4	1.4	Flex 10, 10, 50	4652010	**14-386-337**	265.50
10µL	±0.9	0.8	Flex 200, 250 Univ., 200 Ext.	4652020	**14-386-338**	265.50
25µL	±0.6	0.5	Flex 200, 250 Univ., 200 Ext.	4652030	**14-386-339**	265.50
50µL	±0.6	0.4	Flex 200, 250 Univ., 200 Ext.	4652040	**14-386-340**	265.50
100µL	±0.4	0.3	Flex 200, 250 Univ., 200 Ext.	4652050	**14-386-341**	265.50
250µL	±0.4	0.3	Flex 1000, 1000, 1000 Ext.	4652060	**14-386-342**	265.50
500µL	±0.3	0.3	Flex 1000, 1000, 1000 Ext.	4652070	**14-386-343**	265.50
1000µL	±0.3	0.3	Flex 1000, 1000, 1000 Ext.	4652080	**14-386-344**	265.50
2000µL	±0.3	0.2	5mL	4652090	**14-386-345**	265.50
3000µL	±0.3	0.2	5mL	4652100	**14-386-346**	265.50
5000µL	±0.3	0.2	5mL	4652110	**14-386-347**	265.50
10000µL	±0.3	0.2	10mL, Flex 10mL Ext.	4652120	**14-386-348**	265.50

Thermo Scientific™ Finnpipette™ F2 GLP Kits

Durable and high performance Finnpipette F2 pipetters in an all-inclusive kit

Finnpipette F2 pipetters feature AVG (Advanced Volume Gearing mechanism) and a very large display for improved usability and comfort.

Kit 1 includes:

Three Thermo Scientific Finnpipette Pipetters from 1 to 1000µL:

- Finnpipette F2 1-10µL
- Finnpipette F2 10-100µL
- Finnpipette F2 100-1000µL
- Flex tips: 10, 1 × 96; 200, 1 × 96; 1000, 1 × 96
- F-stand; F2 pen; F2 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack

Kit 2 includes:

Four Thermo Scientific Finnpipette Pipetters from 0.2 to 1000µL:

- Finnpipette F2 0.2-2µL
- Finnpipette F2 2-20µL univ
- Finnpipette F2 20-200µL
- Finnpipette F2 100-1000µL
- Flex tips: 10, 12 × 96; 200, 2 × 96; 1000, 1 × 96
- F-stand; F2 pen; F2 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack

Kit 3 includes:

Three Thermo Scientific Finnpipette Pipetters from 10 to 10,000µL:

- Finnpipette F2 10-100µL
- Finnpipette F2 100-1000µL
- Finnpipette F2 1000-10,000µL
- Flex tips: 200, 1 × 96; 1000, 1 × 96; FT 10mL, 1 × 24 F-stand; F2 pen; F2 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack

Kit 4 includes:

Three Thermo Scientific Finnpipette Pipetters from 20 to 1000µL:

- Finnpipette F2 2-20µL
- Finnpipette F2 20-200µL
- Finnpipette F2 100-1000µL
- Flex tips: (2) 200µL, 10 × 96; 100-1000µL, 10 × 96
- F-stand; F2 pen; F2 brochure
- Good Laboratory Pipetting Guide
- Reagent reservoir demo pack

05-719-510

ORDERING INFORMATION: The kit contains samples of Finntip Flex, the most advanced traditional tip offering very low attachment and ejection forces. The Good Laboratory Pipetting Guide contains all the information of pipetting from choosing the right type to detailed de-contamination information.

WARRANTY: Five years

Description	Color Code	Mfr. No	Cat. No.	Each
F2 Kit 1, 1 to 1000µL	Pink, Yellow, Blue	4700870	**05-719-510**	951.00
F2 Kit 2, 0.2 to 1000µL†	Pink, Yellow, Blue	4700880	**05-719-511**	1257.00
F2 Kit 3, 10 to 10,000µL	Yellow, Blue, Red	4700885	**05-719-512**	951.00
F2 Kit 4, 2 to 1000µL	Yellow (2-20µL, 20-200µL); Blue (100-1000µL)	4701070	**05-719-621**	951.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Finnpipette™ Stands

Safe and convenient storage for manual and electronic pipettes

Finnpipette F-Stand

- Accomodates six pipettes
- Sturdy crossbar structure with slot for each pipette for secure storage
- Suitable for both single channel and multichannel models

Finnpipette Multichannel Stand

- Multi-position stand
- Can hold any multichannel Finnpipette
- Pipette can be stored in upright or horizontal position
- Small footprint

Finnpipette Carousel Stand

14-245-160

- Rotating, portable
- Transparent lid protects pipettes from contamination
- Shipped with three adapters for electronic Finnpipette Novus™ pipettes and five adapters for manual Finnpipette pipettes

Finnpipette Novus Stand

- For convenient storage of electronic Finnpipette Novus pipette
- Accommodates both single and multichannel Finnpipette Novus models with ease

Description	Mfr. No.	Cat. No.	Each
F-Stand, Linear Stand, white, 6 positions	9420400	**14-245-160**	72.30
Multichannel Single Pipette Stand, 1 position	9420390	**14-245-161**	26.25

Gilson™ PIPETMAN Classic™ Pipets

Fully adjustable pipet with "dry seal" technology for air-tightness

- Constructed of stainless steel and PVDF
- Direct volume reading in decimal digits
- Thick body (handle) in PVDF minimizes the hand-warming effect during pipetting
- Unique tip holder design allows for a secure fit of most brands of tips
- Performance exceeding ISO recommendations by an average of 50%
- Tip-holder and tip-ejector are fully autoclavable to avoid cross-contamination
- Eight single channel models are available to cover the range from 0.2µL to 10mL
- Models P2 and P10 are equipped with a dual position tip ejector allowing the use of PIPETMAN D10 (short) and DL10 (long) tips
- Models P5000 and P10mL are equipped with a polyethylene filter that prolongs piston life and prevents contamination

ORDERING INFORMATION:

Trade in program available, please contact your Fisher Scientific Sales Representative for more details.

F123600G

Model	Volume Range	Mfr. No.	Cat. No.	Each
P2	0.2 to 2µL	F144801	**F144801G**	335.00
P10	1 to 10µL	F144802	**F144802G**	335.00
P20	2 to 20µL	F123600	**F123600G**	333.50
P100	20 to 100µL	F123615	**F123615G**	333.50
P200	50 to 200µL	F123601	**F123601G**	333.50
P1000	200 to 1000µL	F123602	**F123602G**	333.50
P5000	1000 to 5000µL	F123603	**F123603G**	335.00
P10mL	1 to 10mL	F161201	**F161201G**	335.00

Gilson™ PIPETMAN™ Starter Kits

Kits contains two or three PIPETMAN Classic pipets with useful accessories

- Contains boxes of certified-quality PIPETMAN Tips and useful accessories, such as single pipet holders, COLORIS™ Identification Clips (mixed colors) and Gilson Guide to Pipetting (except Large-volume Kit)

F167300G

Model	PIPETMAN Models	Gilson Tips	Mfr. No.	Cat. No.	Each
PIPETMAN Micro Volume Starter Kit	P2, P10 and P100	DFL10ST and DF100ST	F167500	**F167500G**	939.50
PIPETMAN Starter Kit	P20, P200 and P1000	D200 and D1000	F167300	**F167300G**	848.50
PIPETMAN Large Volume Starter Kit	P5000 and P10mL	---	F167400	**F167400G**	616.50

Gilson™ PIPETMAN™ G Pipets

Offers low pipetting and purge force

- Body (handle) in PVDF minimizes the hand-warming effect during pipetting and is resistant against agressive chemicals
- Direct volume reading in decimal digits helps prevent mistakes in volume setting
- Comes with classic metal or plastic tip ejector
- Clip ejector fits securely into the body of the pipette and helps avoid slipping over time
- Redesigned seal, lighter ejection springs and high quality piston grease offer as low as 2 Newtons of force to pipet
- High quality piston grease
- Models P2G and P10G incorporate dual position tip ejectors for use with D10 (short) and DL10 (long) tips

F144054MG

ORDERING INFORMATION:
Trade in program available, please contact your Fisher Scientific Sales Representative for more details.

Model	Volume Range	Color Code	Mfr. No.	Cat. No.	Each
Stainless Steel Tip Ejector					
P2G	0.2-2µL	Orange	F144054M	**F144054MG**	353.00
P10G	1-10µL	Red	F144055M	**F144055MG**	353.00
P20G	2-20µL	Pale Yellow	F144056M	**F144056MG**	340.50
P100G	10-100µL	Salmon	F144057M	**F144057MG**	340.50
P200G	20-200µL	Yellow	F144058M	**F144058MG**	340.50
P1000G	100-1000µL	Blue	F144059M	**F144059MG**	340.50
Plastic Tip Ejector					
P2G	0.2-2µL	Orange	F144054P	**F144054PG**	353.00
P10G	1-10µL	Red	F144055P	**F144055PG**	353.00
P20G	2-20µL	Pale Yellow	F144056P	**F144056PG**	340.50
P100G	10-100µL	Salmon	F144057P	**F144057PG**	340.50
P200G	20-200µL	Yellow	F144058P	**F144058PG**	340.50
P1000G	100-1000µL	Blue	F144059P	**F144059PG**	340.50
Without Tip Ejector					
P5000G	500-5000µL	Purple	F144066	**F144066G**	353.00
P10mL	1-10mL	Light Blue	F144067	**F144067G**	353.00

Gilson™ PIPETMAN™ L Pipets

Lightweight pipet with lockable volume and low forces

- Redesigned handle fits naturally in your hand, no matter the size
- Gilson-patented volume locking system guarantees no accidental change in volume while pipetting
- Adjustable tip ejector provides comfort for right-and-left-handed users
- 2D identification code allows easy tracking of product information
- New piston assembly designed to drastically improve pipetting and purge forces; redesigned tip ejector shape and internal mechanism offers reduced tip ejection forces by 50%

ORDERING INFORMATION:
Trade in program available, please contact your Fisher Scientific Sales Representative for more details.

FA10001MG

Model	Volume Range	Color Code	Mfr. No.	Cat. No.	Each
Stainless Steel Tip Ejector					
P2L	0.2 to 2µL	Orange	FA10001M	**FA10001MG**	386.00
P10L	1 to 10µL	Red	FA10002M	**FA10002MG**	386.00
P20L	2 to 20µL	Pale Yellow	FA10003M	**FA10003MG**	362.00
P100L	10 to 100µL	Salmon	FA10004M	**FA10004MG**	362.00
P200L	20 to 200µL	Yellow	FA10005M	**FA10005MG**	362.00
P1000L	100 to 1000µL	Blue	FA10006M	**FA10006MG**	362.00
Plastic Tip Ejector					
P2L	0.2 to 2µL	Orange	FA10001P	**FA10001PG**	386.00
P10L	1 to 10µL	Red	FA10002P	**FA10002PG**	386.00
P20L	2 to 20µL	Pale Yellow	FA10003P	**FA10003PG**	362.00
P100L	10 to 100µL	Salmon	FA10004P	**FA10004PG**	362.50
P200L	20 to 200µL	Yellow	FA10005P	**FA10005PG**	362.00
P1000L	100 to 1000µL	Blue	FA10006P	**FA10006PG**	362.00
Without Tip Ejector					
P5000L	500 to 5000µL	Purple	FA10007	**FA10007G**	364.00
P10mL	1 to 10mL	Pale Blue	FA10008	**FA10008G**	386.00

Gilson™ PIPETMAN™ G Starter Kits

Contains three PIPETMAN G pipettes plus boxes of certified-quality PIPETMAN Tips and other useful accessories

- Also includes accessories such as 10 COLORIS™ identification clips, 3 Single™ pipette holders and 1 Gilson Guide to Pipetting
- Pipets with stainless steel and plastic tip ejectors

F167900G

Description	PIPETMAN G Models	Gilson Tips	Mfr. No.	Cat. No.	Each
Regular kit	P20G, P200G, P1000G	D200, D1000	F167900	**F167900G**	900.00
Microvolume kit	P2G, P10G, P100G	Sterile filter tips DFL10ST,DF100ST	F167800	**F167800G**	975.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Gilson™ PIPETMAN™ Neo Pipets

An evolution of the PIPETMAN Classic™ with lower spring and ejection forces

- Redesigned tip ejector and ejection springs reduces tip ejection forces
- Unique clip ejector fits securely into the body of the pipet to avoid slipping over time
- PVDF handle limits the transfer of heat from hand to the pipet and is resistant to aggressive chemicals
- Stainless steel tip ejector resists corrosion and offers a smooth tip ejection stroke
- Color-coded push-button for ease of identification
- Unique tip holder allows for a secure fit of most brands of tips
- Models P2N and P10N incorporate dual position tip ejectors, allowing the use of D10 (short) and DL10 (long)

ORDERING INFORMATION:
Trade-in program available, please contact your Fisher Scientific Sales representative for more details.

F144561G

Model	Volume Range	Mfr. No.	Cat. No.	Each
P2N	0.2 - 2µL	F144561	**F144561G**	340.50
P10N	1 - 10µL	F144562	**F144562G**	340.50
P20N	2 - 20µL	F144563	**F144563G**	340.50
P100N	10 - 100µL	F144564	**F144564G**	340.50
P200N	20-200µL	F144565	**F144565G**	340.50
P1000N	100-1000µL	F144566	**F144566G**	340.50

Gilson™ PIPETMAN™ F Pipets

Dedicated fixed-volume air-displacement pipet that guarantees no risk of volume-selection errors

- Dedicated fixed-volume pipet assures reliable and consistent results
- Volume can be adjusted by users in the laboratory for dense or viscous fluids
- Single-volume mechanism provides a low-cost alternative for clinical diagnostics, quality control and routine testing

NOTES:
Gilson maximum permissible errors are guaranteed only when PIPETMAN pipets are used with the recommended Gilson PIPETMAN Tips.

F123604G

Model	Volume Range	Compatible Gilson Tips	Mfr. No.	Cat. No.	Each
F20	20µL	D200, DF30ST	F123604	**F123604G**	223.50
F200	200µL	D200, DF100ST, DF200ST, DF300ST	F123605	**F123605G**	223.50
F1000	1000µL	D1000, DF1000ST, DF1200ST	F123606	**F123606G**	223.50
F5	5µL	D200, DF30ST	F123771	**F123771G**	208.78
F2	2µL	D200, DF30ST	F123770	**F123770G**	216.50
F10	10µL	D200, DF30ST	F123772	**F123772G**	216.50
F25	25µl	D200, DF100ST	F123775	**F123775G**	216.50
F50	50µL	D200, DF100ST	F123778	**F123778G**	216.50
F100	100µL	D200, DF100ST	F123784	**F123784G**	216.50
F250	250µL	D1000, DF1000ST, DF1200ST	F123787	**F123787G**	216.50
F300	300µL	D1000, DF1000ST, DF1200ST	F123788	**F123788G**	216.50
F400	400µL	D1000, DF1000ST, DF1200ST	F123789	**F123789G**	208.78
F500	500µL	D1000, DF1000ST, DF1200ST	F123790	**F123790G**	216.50

Gilson™ PIPETMAN™ Neo Starter Kits

Kit contains three PIPETMAN Neo pipets plus boxes of certified-quality PIPETMAN tips and other useful accessories

F167600G

- Also includes three Jimmy™ microtube openers, three Single™ pipet holders and a Gilson Guide to Pipetting

Model	PIPETMAN Neo Models	GILSON Tips	Mfr. No.	Cat. No.	Each
PIPETMAN Neo PCR Starter Kit	P10N, P100N and P1000N	DFL10ST, DF100ST and DF1000ST	F167600	**F167600G**	971.00
PIPETMAN Neo Starter Kit	P20N, D200 and D1000	D200 and D1000	F167700	**F167700G**	890.00

GLOBAL COVERAGE WITH A LOCAL TOUCH

The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

Sales Representatives . . . Customer Service Representatives . . . Application Specialists . . . Safety Specialists . . . Chemical Specialists . . .

Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

Sartorius™ Biohit™ mLINE™ Single-Channel Mechanical Pipetters

Effortless accuracy and precision

mLINE is Biohit's most advanced mechanical pipetter. It offers a unique combination of novel and patented features. It is light weight, comfortable to use and is frequently recommended by health and safety officers.

14-559-408

- Consistent results even in long pipetting series
- Optiload mechanism for perfect tip sealing and effortless tip ejection
- Volume locking button prevents accidental volume change
- Clear, easy-to-read display with large numbers and small increments
- Thermal insulation of the internal components improves accuracy
- High chemical and UV resistance
- Volume range color-coding for easy pipetter and tip selection
- Safe-Cone Filter prevents contamination and damage of the pipetter
- Unique filter ejection mechanism
- Light pipetting forces and ergonomic design prevent repetitive strain injury
- Perfect tip sealing with Optiload
- Easy to maintain; only 2-3 parts to disassemble and clean
- Covers the full volume range of 0.1µL to 10mL
- Fully autoclavable

WARRANTY: 2 years

CERTIFICATIONS: CE marked

Range	Increments	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
0.1 to 3µL	0.002µL	10.00 to 1.30	6.00 to 0.80	Gray	725010	**14-559-404**	373.00
0.5 to 10µL	0.01µL	5.00 to 1.00	4.00 to 0.60	Gray	725020	**14-559-405**	373.00
2 to 20µL	0.02µL	3.00 to 0.90	2.00 to 0.40	Yellow	725030	**14-559-406**	373.00
10 to 100µL	0.10µL	2.00 to0.80	1.00 to 0.15	Yellow	725050	**14-559-407**	373.00
20 to 200µL	0.20µL	2.00 to 0.60	0.80 to 0.15	Yellow	725060	**14-559-408**	373.00
100 to 1000µL	1µL	1.00 to 0.60	0.40 to 0.20	Blue	725070	**14-559-409**	373.00
500 to 5000µL	10µL	2.00 to 0.50	0.60 to 0.20	Green	725080	**14-559-410**	373.00
1 to 10mL	20µL	3.00 to 0.60	0.60 to 0.20	Red	725090	**14-559-411**	355.00

Sartorius™ Biohit™ mLINE™ Starter Kits

The perfect way to test and get started with mLINE pipetters

Choose between two Starter Kits, each containing three single-channel mLINE pipetters. Both kits also include color-coded Optifit tip racks and many useful accessories such as pipetter holder, color coding caps and a calibration tool, which also acts as a tube opener.

mLINE Starter Kit

Starter Kit 1

- Three mLINE Pipetters (0.5 to 10µL, 10 to 100µL, 100 to 1000µL)
- Three Pipetter Holders
- Color Coding Caps
- Biohit Pen
- Biohit Optifit Tips 0.2 to 10µL, Single Tray
- Biohit Optifit Tips 0.5 to 300µL, Single Tray
- Biohit Optifit Tips 10 to 1000µL, Single Tray
- Calibration Tool/Tube Opener
- Literature

Starter Kit 2

- Three mLINE pipetters (2 to 20µL, 20 to 200µL, 100 to 1000µL)
- Three Pipetter Holders
- Color Coding Caps
- Biohit Pen
- Biohit Optifit Tips 0.5 to 300µL, 2 Single Trays
- Biohit Optifit Tips 10 to 1000µL, Single Tray
- Calibration Tool/Tube Opener
- Literature

Description	Mfr. No.	Cat. No.	Each
mLINE Starter Kit 1	725651	**14-559-423**	849.00
mLINE Starter Kit 2	725652	**14-559-424**	849.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Biohit™ mLINE™ PCR Starter Kit

PCR work made easy

mLINE PCR Starter Kit offers an easy start in PCR application. Fully autoclavable mLINE pipetters and sterile Biohit SafetySpace™ Filter Tips provide contamination-free pipetting. The kits also incluce a cooling rack for microtubes, a cryo pen and other accessories.

mLINE Pipetters

- Provide lighter liquid handling
- Effortless accuracy and precision
- Fully autoclavable
- Easy maintenance and calibration

SafetySpace™ Filter Tips

- Safer pipetting and better accuracy
- More space between sample and filter

14-559-581

INCLUDES:
Three mLINE single-channel pipetters (0.5 to 10µL, 10 to 100µL, 100 to 1000µL), SafetySpace 10µLFilter Tip rack, (sterile), SafetySpace 120µL Filter Tip rack, (sterile), SafetySpace 1000µL Filter Tip rack, (sterile), Three pipetter holders, Three Micro tube opener/Calibration tools, Color coding caps, Cryo pen (black), Aluminium cooling rack for 12 micro tubes

Description	Mfr. No.	Cat. No.	Each
mLINE PCR Starter Kit	725660	**14-559-581**	849.00

Sartorius™ Biohit™ mLINE™ Deluxe Starter Kit

Get started with a deluxe set of mLINE pipetters

Comes with four single-channel pipetters covering a volume range of 0.5 to 1000µL. Includes color-coded Optifit Tip racks for every pipetter and many useful accessories such as pipetter holder, color coding caps and a calibration tool, which also acts as a tube opener.

INCLUDES:
Four mLINE pipetters (0.5 to 10µL, 2 to 20µL, 20 to 200µL, 100 to 1000µL), Four pipetter holders, Color Coding caps, Biohit pen, Biohit Optifit tips (single tray) 0.2 to 10µL, Biohit Optifit tips (2 single trays) 0.5 to 200µL, Biohit Optifit tips (single tray) 10 to 1000µL, Calibration tool/Tube opener, Literature

Description	Mfr. No.	Cat. No.	Each
mLINE Deluxe Starter Kit	725654	**14-559-425**	1081.00

Sartorius™ Biohit™ Proline™ Plus Single-Channel Mechanical Pipetters

Durable and dependable

Reduced pipetting forces prevent repetitive strain injury (RSI). Robust design is suitable for everyday laboratory applications.

- Lightweight design is easy to use
- High chemical and UV resistance
- Fully autoclavable
- Optiload mechanism in multichannel models for perfect tip sealing
- Volume setting by click stops
- Suitable for both left and right-handed use
- Compatible with a wide range of tips
- Compatible with most commonly used lab tubes due to slim tip ejector collar
- Safe-Cone filter prevents contamination and damage of pipetter
- Volume range color-coding for easy pipetter and tip selection
- Easy cleaning: only 2-3 parts to disassemble
- Selection covers the full range of 0.1µL to 10mL

WARRANTY: 2 years

CERTIFICATIONS: CE marked

Proline Plus Single-Channel Mechanical Pipets

Volume Range	Increments	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
0.1 to 3µL	0.002µL	10.00 to 1.30	6.00 to 0.80	Gray	728010	**14-559-427**	248.00
0.5 to 10µL	0.01µL	5.00 to 1.00	4.00 to 0.60	Gray	728020	**14-559-428**	248.00
2 to 20µL	0.02µL	3.00 to 0.90	2.00 to 0.40	Yellow	728030	**14-559-429**	248.00
5 to 50µL	0.10µL	---	---	Yellow	728040	**14-559-430**	235.00
10 to 100µL	0.10µL	2.00 to 0.80	1.00 to 0.15	Yellow	728050	**14-559-431**	235.00
20 to 200µL	0.20µL	2.00 to 0.60	0.80 to 0.15	Yellow	728060	**14-559-432**	248.00
100 to 1000µL	1µL	1.00 to 0.60	0.40 to 0.20	Blue	728070	**14-559-433**	248.00
500 to 5000µL	10µL	2.00 to 0.50	0.60 to 0.20	Green	728080	**14-559-434**	248.00
1 to 10mL	20µL	3.00 to 0.60	0.60 to 0.20	Red	728090	**14-559-435**	235.00

Sartorius™ Biohit™ Proline™ Plus Fixed Volume, Single-Channel Mechanical Pipetters

Robust yet lightweight and easy to use

High quality and light pipetting forces provide a pleasant pipetting experience. Covering the full range of 0.1µl to 10mL, the Proline Plus is suitable for a wide range of everyday laboratory applications.

- Fully autoclavable
- High chemical and UV resistance
- Volume setting by click stops
- Suitable for both left and right-handed operation
- Compatible with a wide range of tips
- Compatible with most commonly used lab tubes due to slim tip ejector collar
- Safe-Cone filter prevents contamination and damage of pipetter
- Volume range color-coding for easy pipetter and tip selection
- Easy cleaning: only 2 to 3 parts to disassemble

WARRANTY:
2 years

CERTIFICATIONS:
CE marked

ProLine Plus Fixed Volume Single-Channel

Volume Range	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
5µL	1.30	1.20	Gray	728515	**14-559-442**	175.00
10µL	0.80	0.80	Gray	728520	**14-559-443**	175.00
20µL	0.60	0.50	Yellow	728530	**14-559-444**	184.60
25µL	0.50	0.30	Yellow	728535	**14-559-445**	175.00
50µL	0.50	0.30	Yellow	728545	**14-559-446**	175.00
100µL	0.50	0.30	Yellow	728550	**14-559-447**	175.00
200µL	0.40	0.20	Yellow	728560	**14-559-448**	175.00
250µL	0.40	0.20	Blue	728565	**14-559-449**	175.00
500µL	0.30	0.20	Blue	728567	**14-559-450**	175.00
1000µL	0.30	0.20	Blue	728570	**14-559-451**	184.60
2000µL	0.30	0.15	Green	728575	**14-559-452**	175.00
5000µL	0.30	0.15	Green	728580	**14-559-453**	184.60
10mL	0.60	0.20	Red	728590	**14-559-454**	175.00

Sartorius™ Biohit™ Proline™ Plus Pipetter Starter Kits

Comfortable handle and finger support for minimized risk of strain injuries

Starter Kits offer an opportunity to test and get started with Proline Plus pipetters. Choose among five Starter Kits containing two or three single-channel Proline Plus pipetters. All kits include color-coded Optifit tip racks for every pipetter and a variety of useful accessories such as pipetter holders and a calibration tool, which also acts as a tube opener.

Starter Kit 1

- Two Single-Channel Pipetters (0.1 to 3µL, 0.5 to 10µL)
- Optifit tips (0.1 to 10µL), two single trays
- Two pipet holders
- Two Calibration tool/Tube openers
- Literature

Starter Kit 2

- Three Single-Channel Pipetters (0.5 to 10µL, 10 to 100µL, 100 to 1000µL)
- Optifit tips (0.1 to 10µL, 0.5 to 200µL, 10 to 1000µL), single tray
- Three pipet holders
- Three Calibration tool/Tube openers
- Literature

Starter Kit 3

- Three Single-Channel Pipetters (2 to 20µL, 20 to 200µL, 100 to 1000µL)
- Optifit tips (0.5 to 200µL, 10 to 1000µL), single tray
- Three pipet holders
- Three Calibration tool/Tube openers
- Literature

Starter Kit 4

- Two Single-Channel Pipetters (500 to 5000µL, 1000 to 10,000µL)
- Optifit tips, bulk (100 to 5000µL, 1 to 10mL)
- Two pipet holders
- Two Calibration tool/Tube openers
- Literature

Proline Plus Starter Kit

Starter Kit 5

- Four Single-Channel Pipetters (0.5 to 10µL, 2 to 20µL, 20 to 200µL, 100 to 1000µL
- Optifit tips (0.2 to 10µL, 0.5 to 200µL, 10 to 1000µL)
- Four pipet holders
- Optifit single tray tip boxes
- Calibration tool/Tube opener
- Literature

Description	Mfr. No.	Cat. No.	Each
Kit 1	728650	**14-559-455**	434.00
Kit 2	728651	**14-559-456**	653.50
Kit 3	728652	**14-559-457**	653.50
Kit 4	728653	**14-559-458**	434.00
Kit 5	728654	**14-559-459**	888.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Eppendorf™ Research plus™ Adjustable-Volume Pipetters

Resistant to chemical, thermal and mechanical stress

- Volume adjustment feature allows desired volume to be reached in a few quick turns
- Control button and ejector's low operating force are positioned for ergonomics
- 4-digit, magnifying-shape volume display
- Calibration display and adjustment opening for specific liquids and volumes
- Ultra light PerfectPiston™ piston system constructed of chemically resistant Fortron™ (not available in 2.5µL, 10µL, 5mL and 10mL pipetters)
- Quick connection clip allows removal of lower part in two quick steps (not available in 5 and 10mL pipetters)
- Spring-loaded tip cone promotes tight fit to the tip (not available in 5 and 10mL pipetters)
- Color indicates pipetter's volume

13-690 Series

Volume Range	Operating Button Color-Code	Mfr. No.	Cat. No.	Each
0.1–2.5µL	Dark Gray	3120000011	**13-690-025**	382.11
0.5–10µL	Gray	3120000020	**13-690-026**	382.11
2–20µL	Light Gray	3120000097	**13-690-027**	382.11
2–20µL	Yellow	3120000038	**13-690-028**	382.11
10–100µL	Yellow	3120000046	**13-690-029**	382.11
20–200µL	Yellow	3120000054	**13-690-030**	382.11
30–300µL	Orange	3120000100	**13-690-031**	382.11
100–1000µL	Blue	3120000062	**13-690-032**	382.11
0.5–5mL	Violet	3120000070	**13-690-033**	382.11
1–10mL	Turquoise	3120000089	**13-690-034**	382.11

ON THE WEB...

Looking for more Eppendorf™ Research plus™ Fixed-Volume Pipetters?

Visit www.fishersci.com and search for Eppendorf Fixed Volume

Specifications			
Volume Range	**Increments**	**Inaccuracy (%)**	**Imprecision (CV%)**
Dark Gray: For 10µL pipet tips			
0.1–2.5µL	0.1µL	±48.0	±12.0
	0.25µL	±12	±6.0
	1.25µL	±2.5	±1.5
	2.5µL	±1.4	±0.7
Gray: For 20µL pipet tips			
0.5–10µL	0.5µL	±8.0	±5.0
	1µL	±2.5	±1.8
	5µL	±1.5	±0.8
	10µL	±1.0	±0.4
Light Gray: For 20µL pipet tips			
2–20µL	2µL	±5	±1.5
	10µL	±1.2	±0.6
	20µL	±1.0	±0.3
Yellow: For 200µL pipet tips			
2–20µL	2µL	±5.0	±1.5
	10µL	±1.2	±0.6
	20µL	±1.0	±0.3
10–100µL	10µL	±3.0	±1.0
	50µL	±1.0	±0.3
	100µL	±0.8	±0.2
20–200µL	20µL	±2.5	±0.7
	100µL	±1.0	±0.3
	200µL	±0.6	±0.2
Orange: For 300µL pipet tips			
30–300µL	30µL	±2.5	±0.7
	150µL	±1.0	±0.3
	300µL	±0.6	±0.2
Blue: For 1000µL pipet tips			
100–1.000µL	100µL	±3.0	±0.6
	500µL	±1.0	±0.2
	1.000µL	±0.6	±0.2
Violet: For 5mL pipet tips			
0.5–5mL	0.5mL	±2.4	±0.6
	2.5mL	±1.2	±0.25
	5mL	±0.6	±0.15
Turquoise: For 10mL pipet tips			
1–10mL	1mL	±3.0	±0.6
	5mL	±0.8	±0.2
	10mL	±0.6	±0.15

Eppendorf™ Series 2000 Adjustable-Volume Pipetters

Compact design includes a single, multifunctional button that controls both pipetting and tip ejection

05-402-44

- Eppendorf PhysioCare Concept Criteria focuses on all relevant aspects of pipetting—the whole person and process, not just the hand or device
- Integrated systems: Complete pipetter and tip program to fit any application
- Exceptional durability: Made of state-of-the-art materials
- Optimized form and function: Easy operation through all work steps
- Perfectly balanced: Fit comfortably in the hand, with models weighing up to 30% less than other brands
- Intuitive operation: Color-coded pipetter and tip matching system for easy identification
- Minimal user exertion: Minimize stress; manual models require up to 50% less pipetting force
- Simple maintenance: Easy-to-clean, autoclave and repair
- Total support: Certified and ready to use; calibration services also available

ORDERING INFORMATION:
Adjustable-volume models accept Eppendorf Geloader™ tips; 20µL ultra micro tips; 200µL tips; and 300µL, 1000µL and 1.25mL tips, plus 2.5µL ultra micro tips and 2.5 and 5mL tips. Equivalent sizes of epTips tips are also compatible. Compatible with most universal fit pipet tips.

WARRANTY:
Three year

CERTIFICATIONS:
Supplied with individual Certificate of Conformity

Range	Incre.	Innac. (%)	Imprec. (CV%)	Mfr. No.	Cat. No.	Each
0.1–2.5µL	0.002µL	±12.0 to 1.4	≤6.0 to 0.7	022470001	**05-402-44**	453.57
0.5–10µL	0.01µL	±5.0 to 1.0	≤2.8 to 0.4	022470051	**05-402-45**	453.57
2–20µL	0.02µL	±3.0 to 0.8	≤2.0 to 0.3	022470108	**05-402-46**	453.57
2–20µL	0.02µL	±5.0 to 1.0	≤1.5 to 0.3	022470159	**05-402-47**	453.57
10–100µL	0.1µL	±3.0 to 0.8	≤0.7 to 0.15	022470205	**05-402-48**	453.57
50–200µL	0.2µL	±1.0 to 0.6	≤0.3 to 0.2	022470256	**05-402-49**	453.57
100–1000µL	1.0µL	±3.0 to 0.6	≤0.3 to 0.2	022470302	**05-402-50**	453.57
500–2500µL	2.0µL	±1.5 to 0.6	≤0.3 to 0.2	022470353	**05-402-51**	453.57

Eppendorf™ Series 2000 Fixed-Volume Pipetters

Compact design includes a single, multifunctional button that controls both pipetting and tip ejection

05-402-52

- Eppendorf PhysioCare Concept Criteria focuses on all relevant aspects of pipetting—the whole person and process, not just the hand or device
- Integrated systems: Complete pipetter and tip program to fit any application
- Exceptional durability: Made of state-of-the-art materials
- Optimized form and function: Easy operation through all work steps
- Perfectly balanced: Fit comfortably in the hand, with models weighing up to 30% less than other brands
- Intuitive operation: Color-coded pipetter and tip matching system for easy identification
- Minimal user exertion: Minimize stress; manual models require up to 50% less pipetting force
- Simple maintenance: Easy-to-clean, autoclave and repair
- Total support: Certified and ready to use; calibration services also available

ORDERING INFORMATION:
Fixed-volume models accept Eppendorf Geloader™ tips; 20µL ultra micro tips; 200µL tips; and 300µL, 1000µL and 1.25mL tips.

WARRANTY:
Three year

CERTIFICATIONS:
Supplied with individual Certificate of Conformity.

Volume	Inacc. (%)	Imprec. (CV%)	Mfr. No.	Cat. No.	Each
1µL	±2.5	≤1.8	022470400	**05-402-52**	348.91
2µL	±2.0	≤1.2	022470451	**05-402-53**	348.91
5µL	±1.5	≤0.8	022470507	**05-402-54**	348.91
10µL	±1.0	≤0.5	022470558	**05-402-55**	348.91
10µL	±1.0	≤0.5	022470604	**05-402-56**	348.91
15µL	±1.0	≤0.5	022470655	**05-402-57**	377.95
20µL	±0.8	≤0.3	022470752	**05-402-58**	348.91
25µL	±0.8	≤0.3	022470809	**05-402-59**	348.91
30µL	±0.8	≤0.3	022470850	**05-402-60**	377.95
40µL	±0.8	≤0.3	022470906	**05-402-61**	377.95
50µL	±0.7	≤0.3	022470957	**05-402-62**	348.91
75µL	±0.7	≤0.3	022471007	**05-402-63**	377.95
80µL	±0.7	≤0.3	022471058	**05-402-64**	377.95
100µL	±0.6	≤0.2	022471155	**05-402-66**	348.91
150µL	±0.6	≤0.2	022471201	**05-402-67**	377.95
200µL	±0.6	≤0.2	022471252	**05-402-68**	348.91
250µL	±0.6	≤0.2	022471309	**05-402-69**	348.91
300µL	±0.6	≤0.2	022471350	**05-402-70**	348.91
400µL	±0.6	≤0.2	022471406	**05-402-71**	377.95
500µL	±0.6	≤0.2	022471457	**05-402-72**	348.91
750µL	±0.6	≤0.2	022471503	**05-402-73**	377.95
800µL	±0.6	≤0.2	022471554	**05-402-74**	377.95
900µL	±0.6	≤0.2	022471601	**05-402-75**	377.95
1000µL	±0.6	≤0.2	022471651	**05-402-76**	348.91
1500µL	±0.6	≤0.2	022471708	**05-402-77**	348.91
2000µL	±0.6	≤0.2	022471759	**05-402-78**	348.91
2500µL	±0.6	≤0.2	022471805	**05-402-79**	348.91

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Before You Buy **Pipettes**

eppendorf

The right pipette for your needs

- Pipette – the essential lab tool. High-quality pipettes ensure ergonomic operation and accurate pipetting.
- Dispensers are ideal for repetitive pipetting tasks. Did you recently have to screen 24 clones for the right insert? The Eppendorf Repeater can make the pipetting steps easier, aspirate the total volume needed for all tubes and dispense the correct amount into each tube by simply pressing one button.
- Positive displacement pipettes use syringe-like tips to maximize accuracy, especially with viscous or volatile solutions.
- Electronic pipettes eliminate human pipetting error and provide additional pipetting capabilities.

Ergonomic features that make your life easier

- Check for low overall weight in combination with proper weight distribution to ensure relaxed operation.
- Spring-loaded tip cones provide lower attachment/ejection forces.
- Look for electronic pipettes (e.g., Xplorer) with intuitive software and clearly arranged display without confusing symbols.

Product Information:

All Eppendorf pipettes meet the highest needs for precision, safety, ergonomics and robustness.

Eppendorf Reference 2

- Unique one-button operation (1 button for pipetting, tip ejection and volume setting)
- One-button design lowers your risk of RSI — you don't have to move your thumb sideways for tip ejection
- One-button operation minimizes the risk of aerosol contamination. Since your thumb remains on the operating button, there is no re-aspiration/splash-back of residual liquid during tip ejection.
- Integrated volume lock prevents accidental volume changes
- Multi-channel options available

	Research plus	Reference 2	Xplorer/ Xplorer plus	Repeater M4	Repeater X/stream
PRODUCT CLASS	Pipette	Pipette	Pipette	Dispenser	Dispenser
PIPETTING TYPE	Air-cushion	Air-cushion	Air-cushion	Positive displacement	Positive displacement
OPERATION	Manual	Manual	Electronic	Manual	Electronic
OPERATING MODES	Pipetting	Pipetting	Pipetting Dispensing Mixing Aspiration Programming	Dispensing	Dispensing Pipetting Titration Aspiration
VOLUME RANGE	0.1µL–10mL	0.1µL–10mL	0.5µL–10mL	1µL–10mL	1µL–50mL
AVAILABLE OPTIONS	1-channel 8-channel 12-channel	1-channel 8-channel 12-channel	1-channel 8-channel 12-channel	1-channel	1-channel

Multichannel/Manual

Fisherbrand® Elite™ Multichannel Pipetters

New, improved ergonomic design provides newly designed finger rest and index finger and hand support for maximum comfort

- 8- and 12-channel pipetters with volume range of 1 up to 300µL
- Fully autoclavable — entire pipetter can be steam autoclaved
- Extremely low plunger forces — work longer without fatigue and reduce the risk of RSI
- Soft-touch tip ejection — a gearing mechanism reducing tip ejection force up to 50%
- Ergonomic comfortable lightweight handle — comfortable grip and effortless tip attachment
- Optimal fit with SureOne pipetter tips — best pipetting performance
- Super blow-out piston — creates 150% bigger air push than conventional piston for delivery of the micro size drops

FBE1200050

Volume Range	Increments	Accuracy	Precision	Cat. No.	Each
8-Channel					
1.0-10µL	0.02µL	2.4 to 12%	1.6 to 8.0%	**FBE800010**	674.00
5-50µL	0.1µL	1.5 to 5.0%	0.7 to 2.0%	**FBE800050**	674.00
10-100µL	0.2µL	1.3 to 5.0%	0.5 to 2.0%	**FBE800100**	674.00
30-300µL	1.0µL	1.0 to 4.6%	0.3 to 1.5%	**FBE800300**	674.00
12-Channel					
1.0-10µL	0.02µL	2.4 to 12%	1.6 to 8.0%	**FBE1200010**	839.50
5-50µL	0.1µL	1.5 to 5.0%	0.7 to 2.0%	**FBE1200050**	839.50
10-100µL	0.2µL	1.3 to 5.0%	0.5 to 2.0%	**FBE1200100**	839.50
30-300µL	1.0µL	1.0 to 4.6%	0.3 to 1.5%	**FBE1200300**	839.50

Thermo Scientific™ F1-ClipTip™ Variable Volume Multichannel Pipets

Ensures complete seal on every channel with minimal tip attachment and ejection force

You'll feel the difference the first time you hold the NEW F1-ClipTip pipetting system.

- Tip is locked and sealed in place until ejected — no dropped tips that waste valuable samples
- Complete seal to secure the sample volume in each tip — enhanced accuracy and precision
- Tips are attached and ejected with a light touch — eliminates the frustration of banging tips on the pipet

Ergonomic design

- Offering low attachment, ejection and plunger forces for safe and comfortable use

Remarkably lightweight

- Modern design protects user from the risk of repetitive strain injuries (RSI)
- Adjustable comfort
- The 120° adjustable finger rest — for both right- and left-handed operator comfort — allows the hand to relax during pipetting cycles

Super blow-out

- 150% increase in air boost to ensure efficient delivery of micro-volumes and prevent capillary action†

Soft-touch tip ejection

- Innovative gearing mechanism produces more downward force with less effort, releasing tips with a gentle push

Volume lock adjustment

- The secure volume setting prevents undesirable volume drift during operation

Industry-leading lifetime warranty

- With convenient online registration

COMPLIANCE:
The F1-ClipTip pipetting system is CE-marked in accordance with IVD Directive in Europe

CERTIFICATIONS:
Manufactured according to ISO 9001, ISO 14001 and ISO 13485.

† Available in 50µL models and below

14 488 Series

Volume Range	Increments	Accuracy	Precision	ClipTip	Color Code	Mfr. No.	Cat. No.	Each
8-Channel								
1 to 10µL	0.02µL	2.4 to 12%	1.6 to 8.0%	ClipTip 20	Pink	4661110	**14 488 031**	626.50
5 to 50µL	0.1µL	1.5 to 5.0%	0.7 to 2.0%	ClipTip 50	Violet	4661120	**14 488 032**	626.50
10 to 100µL	0.2µL	1.3 to 5.0%	0.5 to 2.0%	ClipTip 200	Yellow	4661130	**14 488 033**	626.50
30 to 300µL	1µL	1.0 to 5.0%	0.3 to 2.0%	ClipTip 300	Orange	4661140	**14 488 034**	626.50
12-Channel								
1 to 10µL	0.02µL	2.4 to 12%	1.6 to 8.0%	ClipTip 20	Pink	4661150	**14 488 035**	752.50
5 to 50µL	0.1µL	1.5 to 5.0%	0.7 to 2.0%	ClipTip 50	Violet	4661160	**14 488 036**	752.50
10 to 100µL	0.2µL	1.3 to 5.0%	0.5 to 2.0%	ClipTip 200	Yellow	4661170	**14 488 037**	752.50
30 to 300µL	1µL	1.0 to 5.0%	0.3 to 2.0%	ClipTip 300	Orange	4661180	**14 488 038**	752.50

For tips, search "Clip Tip" at www.fishersci.com

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Finnpipette™ F1 Multichannel Pipetters

Soft-touch tip ejection reduces the effort needed to eject multiple tips

- Antimicrobial surface: silver (Ag) ions create a surface that inhibits growth of bacteria, microbes and fungus
- Easy "set and forget" lock mechanism to adjust volume
- Pipetting button rotates freely when not in locking position
- Finger rest can be adjusted 120° for optimal pipetting position
- Light, smooth pipetting action enables better results over longer pipetting periods
- Super blow-out piston with volumes of 50µL and below ensures delivery of micro-size drops
- Soft-touch tip ejection minimizes the force needed for tip ejection

WARRANTY:
Five years with Web registration

14-386-355

Range	Increments	Accuracy (%)	Precision (%)	Compatible Finntip	Color Code	Mfr. No.	Cat. No.	Each
8-Channel								
1–10µL	0.02µL	±12.0 to 2.4	8.0 to 1.6	Flex 10, 10, 50	Pink	4661000	**14-386-349**	805.00
5–50µL	0.1µL	±5.0 to 1.5	2.0 to 0.7	Flex 200, 250 Univ., 200 Ext.	Yellow	4661010	**14-386-350**	805.00
10–100µL	0.2µL	±5.0 to 1.3	2.0 to 0.5	Flex 200, 250 Univ., 200 Ext.	Yellow	4661020	**14-386-351**	805.00
30–300µL	1µL	±5.0 to 1.0	2.0 to 0.3	Flex 300, 300	Orange	4661030	**14-386-352**	805.00
12-Channel								
1–10µL	0.02µL	±12.0 to 2.4	8.0 to 1.6	Flex 10, 10, 50	Pink	4661040	**14-386-353**	985.00
5–50µL	0.1µL	±5.0 to 1.5	2.0 to 0.7	Flex 200, 250 Univ., 200 Ext.	Yellow	4661050	**14-386-354**	985.00
10–100µL	0.2µL	±5.0 to 1.3	2.0 to 0.5	Flex 200, 250 Univ., 200 Ext.	Yellow	4661060	**14-386-355**	985.00
30–300µL	1µL	±5.0 to 1.0	2.0 to 0.3	Flex 300, 300	Orange	4661070	**14-386-356**	985.00
16-Channel								
1–10µL	0.02µL	±12.0 to 2.4	8.0 to 1.6	Flex 10 (384), 50	Purple	4661080	**14-386-357**	1045.00
5–50µL	0.1µL	±5.0 to 1.5	2.0 to 0.7	50	Turquoise	4661090	**14-386-358**	1045.00

Thermo Scientific™ Finnpipette™ F2 Multichannel Pipetters

Advanced Volume Gearing mechanism (AVG) ensures a high level of accuracy and precision

AVG is a self-supporting modular volume adjustment mechanism that enhances pipetting performance. Because it is separated from the pipetter body, its accuracy, precision and durability are significantly improved. The AVG mechanism is also thermally isolated from the pipetter body, minimizing possible effects of hand warmth on the accuracy of your measurements.

- Large Ergovisio display with white numbers on black background for increased visibility
- Double-action pipetting button; rotating upper part prevents accidental volume alteration
- Light, smooth pipetting action enables better results over longer pipetting periods
- Super blow-out piston with volumes of 50µL and below ensures delivery of micro-size drops
- Fully autoclavable; entire pipetter can be autoclaved in one piece
- Wide, supportive finger rest
- Space for personal ID tag

WARRANTY:
Five years with Web registration

14-386-360

Range	Increments	Accuracy (%)	Precision (%)	Compatible Tips	Color Code	Mfr. No.	Cat. No.	Each
8-Channel								
1–10µL	0.02µL	±12.0 to 2.4	8.0 to 1.6	Flex 10, 10, 50	Pink	4662000	**14-386-359**	789.00
5–50µL	0.1µL	±5.0 to 1.5	2.0 to 0.7	Flex 200, 250 Univ., 200 Ext.	Yellow	4662010	**14-386-360**	789.00
10–100µL	0.2µL	±5.0 to 1.3	2.0 to 0.5	Flex 200, 250 Univ., 200 Ext.	Yellow	4662020	**14-386-361**	789.00
30–300µL	1µL	±5.0 to 1.0	2.0 to 0.3	Flex 300, 300	Orange	4662030	**14-386-362**	789.00
12-Channel								
1–10µL	0.02µL	±12.0 to 2.4	8.0 to 1.6	Flex 10, 10, 50	Pink	4662040	**14-386-363**	959.50
5–50µL	0.1µL	±5.0 to 1.5	2.0 to 0.7	Flex 200, 250 Univ., 200 Ext.	Yellow	4662050	**14-386-364**	959.50
10–100µL	0.2µL	±5.0 to 1.3	2.0 to 0.5	Flex 200, 250 Univ., 200 Ext.	Yellow	4662060	**14-386-365**	959.50
30–300µL	1µL	±5.0 to 1.0	2.0 to 0.3	Flex 300, 300	Orange	4662070	**14-386-366**	959.50
16-Channel								
1–10µL	0.02µL	±12.0 to 2.4	8.0 to 1.6	Flex 10 (384), 50	Purple	4662080	**14-386-367**	1015.00
5–50µL	0.1µL	±5.0 to 1.5	2.0 to 0.7	50	Turquoise	4662090	**14-386-368**	1015.00

Gilson™ PIPETMAN™ L Multichannel Pipets

New, lightweight multichannel pipet with lockable volume that has been designed to fit naturally in your hand

Gilson-patented volume locking system guarantees no accidental change in volume while pipetting.

- Adjustable tip ejector provides comfort for right- and left-handed users
- Redesigned handle fits naturally in your hand, no matter the size
- Unique internal design applies even, equal pressure from either side of the pipet, rather than on the center of the channels like other multichannels do
- 2D identification code tracks product reference number, date of manufacture, serial number and maximum volume of pipet
- Available in 8- and 12-channel covering a volume range from 0.5 to 300µL

Pipetman L Series

Description	Volume Range	Mfr. No.	Cat. No.	Each
P8X20L	2 to 20µL	FA10009	**FA10009G**	761.50
P12X20L	2 to 20µL	FA10010	**FA10010G**	950.00
P8X200L	20 to 200µL	FA10011	**FA10011G**	761.50
P12X200L	20 to 200µL	FA10012	**FA10012G**	950.00

Gilson™ PIPETMAN™ Neo Multichannel Pipets

Reduced pipetting forces help avoid RSI and increase comfort, with accuracy across all channels

- Easy-to-remove tip ejector with autoclavable lower part
- Internal design applies equal pressure on each piston to ensure consistent volume levels across all channels
- PVDF handle minimizes the hand-warming effect during pipetting and is resistant to aggressive chemicals
- Gilson Trident and unique spacer create a stepped ejection, staggering the tip ejection and thus reducing the force required to eject tips
- Unique tip holder allows for a secure fit of most brands of tips
- Available in 8- and 12-channel models

ORDERING INFORMATION:
Trade-in program available. Please contact your Fisher Scientific
Sales representative for more details.

F14401G

Model	Volume Range	Mfr. No.	Cat. No.	Each
8 × 20	2 to 20µL	F14401	**F14401G**	666.50
12 × 20	2 to 20µL	F14402	**F14402G**	818.50
8 × 200	20 to 200µL	F14403	**F14403G**	666.50
12 × 200	20 to 200µL	F14404	**F14404G**	818.50

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Prices subject to change.

Sartorius™ Biohit™ mLINE™ Multichannel Mechanical Pipetters

Excellent precision in long pipetting series

mLINE is Biohit's most advanced mechanical pipetter. It offers a unique combination of novel and patented features for effortless accuracy and precision. Lightweight and comfortable to use, it is frequently recommended by health and safety officers.

- Consistent results even in long pipetting series
- Optiload mechanism for perfect tip sealing and effortless tip ejection
- Volume locking button prevents accidental volume change
- Clear, easy-to-read display with large numbers and small increments
- Thermal insulation of internal components improves accuracy
- High chemical and UV resistance
- Volume range color-coding for easy pipetter and tip selection
- Safe-Cone Filter to prevent contamination and damage of the pipet
- Unique filter ejection mechanism
- Light pipetting forces and ergonomic design prevent RSI
- Smooth and stepless volume setting with volume locking
- Easy to maintain; only 2-3 parts to disassemble and clean
- Fully autoclavable

WARRANTY:
2 years

CERTIFICATIONS:
CE marked

14-559-413

Range	Increments	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
8-Channel							
0.5 to 10µL	0.01µL	4.00 to 1.50	4.00 to 1.00	Gray	725120	**14-559-412**	851.00
5 to 100µL	0.10µL	3.00 to 0.70	1.50 to 0.25	Yellow	725130	**14-559-413**	851.00
30 to 300µL	0.20µL	2.00 to 0.60	1.00 to 0.25	Orange	725140	**14-559-414**	851.00
12-Channel							
0.5 to 10µL	0.01µL	4.00 to 1.50	4.00 to 1.00	Purple	725220	**14-559-415**	1014.00
5 to 100µL	0.10µL	3.00 to 0.70	1.50 to 0.25	Yellow	725230	**14-559-416**	1014.00
30 to 300µL	0.20µL	2.00 to 0.60	1.00 to 0.25	Orange	725240	**14-559-417**	1014.00

Sartorius™ Biohit™ Proline™ Plus Multichannel Mechanical Pipetters

Multichannel adjustable pipetter for personal design and a robust feel for heavier use

Optiload tip loading mechanism allows tip loading with an equal constant force onto every channel. Enables perfect tip sealing onto every individual tip cone, and makes tip ejection light and easy.

- Ergonomic design: light pipetting forces, comfortable handle and finger support for reduced risk of strain injuries
- Safe-Cone Filters minimize risk of contamination
- Volume setting with click stop
- Durable with strengthened structure
- Fully autoclavable without disassembling
- Easy to use, do-it-yourself calibration
- No need to squeeze the pipetter during pipetting; reduces the risk of RSI
- Thermal insulation of internal components improves accuracy
- Large numbers on volume display
- Volume color-coding on display enables correct tip volume selection through matching color code
- High chemical and UV resistance
- Easy to clean; only three parts to disassemble

WARRANTY:
3 years

CERTIFICATIONS:
CE marked

14-559-437

Volume Range	Increments	Inaccuracy (%)	Imprecision (9%)	Color Code	Mfr. No.	Cat. No.	Each
8-Channel							
0.5 to 10µL	0.01µL	4.00 to 1.50	4.00 to 1.00	Gray	728120	**14-559-436**	652.00
10 to 100µL	0.10µL	3.00 to 0.70	1.50 to 0.25	Yellow	728130	**14-559-437**	652.00
30 to 300µL	0.20µL	2.00 to 0.60	1.00 to 0.25	Orange	728140	**14-559-438**	652.00
12-Channel							
0.5 to 10µL	0.01µL	4.00 to 1.50	4.00 to 1.00	Gray	728220	**14-559-439**	799.50
10 to 100µL	0.10µL	3.00 to 0.70	1.50 to 0.25	Yellow	728230	**14-559-440**	799.50
30 to 300µL	0.20µL	2.00 to 0.60	1.00 to 0.25	Orange	728240	**14-559-441**	799.50

Before You Buy **Electronic Pipettes**

sartorius

How to select a Safe and Ergonomic Pipette

- Light Weight
- Good Finger Support
- Ergonomic Handle Design
- Clear and Easy-to-Read Display
- Optimal Length
- Fast and Light Volume Adjustment
- Light tip loading and ejection
- Light plunger movement

Picus the most ergonomic pipette ever

- Red Dot awarded electronic pipette that eases your work load, protects you from injuries by ensuring optimal working posture and allows accurate and precise pipetting results
- Laboratory professionals need instruments that are ergonomic, easy to use and reliable — Sartorius has now set a completely new standard for electronic pipettes

You'll enjoy pipetting again!

- The lightest and smallest electronic pipette ensures optimal working posture and an easy-to-use interface
- New ergonomic design protects you from RSI (repetitive strain injury)
- Next generation technology, electronic brake and piston control system guarantee accurate and precise pipetting results

Features & Benefits

New Ergonomic Design

- Extremely small and light electronic pipette (only 100g) protects you from RSI (repetitive strain injury) and eases your workload in long pipetting series
- Comfortable handle design and finger hook
- Light, effortless electronic tip ejection

Next Generation Technology

- Enhanced DC-motor concept provides outstanding accuracy and repeatability
- Fully electronic operation eliminates user error and ensures consistent results
- Hot key provides fast access to routine work programs

Intuitive User-Interface

- Available with five language options: English, Chinese, French, German and Russian

Handy Adjustment Wheel

- Offers extremely fast volume setting and easy menu navigation
- Enables ergonomic one-handed operation
- Accurately controls manual pipetting and titrating speed with just a light touch of the thumb

Microwell Plate Tracker

- Unique built-in tracker for 96- and 384-well plates guides the user to pipette into the correct wells
- Improves work efficiency and reliability of results

Optiload for Perfect Tip Sealing

- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone

Safe-Cone Filters

- Protects both the pipette and sample from contamination
- Reduce maintenance intervals and prolong the life of the pipette

Autoclavable Lower Parts (excl. 1200µl models)

- For ease of cleaning and decontamination

PIPETTING MODES		ADDITIONAL FUNCTIONS — TO BE USED IN CONJUCTION WITH THE MAIN MODE				
AVAILABLE IN ALL PICUS MODELS		TRACKER	MIXING	COUNTER	EXCESS VOLUME ADJUSTMENT	AUTO DISPENSING
Pipetting	✓	✓	✓	✓		
Reverse Pipetting	✓	✓		✓	✓	
Manual Pipetting	✓					
Multi Dispensing	✓	✓			✓	
Diluting	✓		✓			
Sequential Dispensing	✓				✓	✓
Multi Aspiration	✓					
Titrate	✓					

ERGONOMIC ed DESIGN

For more information see: Sartorius Electronic Pipettes pages 1107, 1113 and Picus Electronic Pipettes pages 1108, 1113

Eppendorf™ Research plus™ Adjustable Volume Multichannel Pipetters

Remove individual channels and gain flexibility

- Volume adjustment feature allows desired volume to be reached in a few quick turns
- Control button and ejector's low operating force are positioned for ergonomics
- Four-digit, magnifying-shape volume display
- Calibration display and adjustment opening for specific liquids and volumes
- Ultra light PerfectPiston™ piston system constructed of chemically resistant Fortron™ (not available in 10µL)
- Quick connection clip allows removal of lower part in two quick steps (not available in 5 and 10mL pipetters)
- Spring loaded tip cone promotes tight fit to the tip
- Resistant to chemical, thermal and mechanical stress
- Color indicates pipetter's volume

13-690-047

Specifications			
Volume Range	**Increments**	**Inaccuracy (%)**	**Imprecision (CV%)**
Gray: For 20µL Pipet tips			
0.5–10µL	0.5µL	±12.0	±8.0
	1µL	±8.0	±5.0
	5µL	±4.0	±2.0
	10µL	±2.0	±0.2
Yellow: For 200µL Pipet tips			
10–100µL	10µL	±3.0	±2.0
	50µL	±1.0	±0.8
	100µL	±0.8	±0.3
Orange: For 300µL Pipet tips			
30–300µL	30µL	±3.0	±1.0
	150µL	±1.0	±0.5
	300µL	±0.6	±0.3

Volume Range	Operating Button Color-Code	Mfr. No.	Cat. No.	Each
8-Channel				
0.5–10µL	Gray	3122000019	**13-690-047**	921.36
10–100µL	Yellow	3122000035	**13-690-048**	921.36
30–300µL	Orange	3122000051	**13-690-049**	921.36
12-Channel				
0.5–10µL	Gray	3122000027	**13-690-050**	1065.59
10–100µL	Yellow	3122000043	**13-690-051**	1065.59
30–300µL	Orange	3122000060	**13-690-052**	1065.59

Single Channel/Electronic

Thermo Scientific™ Finnpipette™ Novus™ Single-Channel Pipetters

Combine simplicity, comfort and functionality in an exceptionally intuitive, ergonomic design

The Finnpipette Novus is the first electronic pipetter in the world to have a backlit display feature, which uses similar backlight technology to that of mobile phones. Also features multi-language programming.

Features

- Clear, easy-to-read, intuitive menu navigation
- New multilingual graphical user interface
- Backlight technology eliminates surrounding light reflections and improves contrast in low-light conditions
- Ten pipetting options; nine aspirate/dispense speeds
- Functions include forward, reverse, diluting, stepper pipetting, mixing, sequential stepping and more
- Programmable for your own custom applications
- Easy in-lab calibration for accuracy and precision
- Fully autoclavable tip cone ensures sterility and avoids cross-contamination
- Long-life battery allows approximately 4000 pipetting operations; recharged in about one hour

Ergonomic Design

- Extremely lightweight construction
- Natural index finger operation
- Adjustable finger rest for balance and comfort
- Trigger-action pipetting — index finger controls dispensing with just a soft press of a button
- Soft-touch tip ejection minimizes thumb strain; can be operated by either hand

ORDERING INFORMATION: Ideal for use with Thermo Scientific Finntip™ pipet tips, as specified in ordering table. Also compatible with most universal-fit tips.

WARRANTY: Two years with Web registration

21-377-012

Volume Range (Calibration)	Volume Range (Functional[1])	Increments	Accuracy (%)	Precision (%)	Color Code	Compatible Finntip	Mfr. No.	Cat. No.	Each
1 to 10µL, micro	0.5–10µL	0.01µL	3.5 to 1.0±	3.0 to 0.5	Pink	10, Flex 10, 20 micro, 50 micro	46200000	**21-377-010**	779.00
1 to 10µL	0.5–10µL	0.01µL	7.0 to 1.0±	6.0 to 0.5	Yellow	Flex 200, 250 Univ, 200 Ext.	46200100	**21-377-011**	779.00
5 to 50µL, micro	2.5–50µL	0.1µL	3.0 to 0.8±	2.5 to 0.3	Turquoise	50	46200200	**21-377-012**	779.00
5 to 50µL	2.5–50µL	0.1µL	3.0 to 0.8±	2.5 to 0.3	Yellow	250 Univ, 200 Ext.	46200300	**21-377-013**	779.00
10 to 100µL	5–100µL	0.1µL	3.0 to 0.8±	1.0 to 0.2	Yellow	Flex 200, 250 Univ, 200 Ext.	46200400	**21-377-014**	779.00
30 to 300µL	15–300µL	1µL	3.0 to 0.6±	0.7 to 0.2	Orange	300, Flex 300	46200500	**21-377-015**	779.00
100 to 1,000µL	50–1000µL	1µL	3.0 to 0.6±	0.6 to 0.2	Blue	1000, 1000 Ext., Flex 1000	46200600	**21-377-016**	779.00
0.5 to 5mL	0.25–5mL	0.01mL	3.0 to 0.6±	0.8 to 0.2	Green	5mL	46200700	**21-377-017**	779.00
1 to 10mL	0.5–10mL	0.01mL	3.0 to 0.6±	0.8 to 0.2	Red	10mL, Flex 10mL Ext.	46200800	**21-377-018**	777.00

[1]The Functional volume range indicates the volume range that the pipet can cover in the Stepper, Sequential Stepper and Sequential Aspirate functions.

Thermo Scientific™ Finnpipette™ Novus GLP Kits

All-inclusive kit

Finnpipette Novus delivers performance with greater ease-of-use and reduced risk of injury. Unique to Novus, the adjustable index-finger trigger action prevents common repetitive stress injuries caused by thumb-driven pipettes and the easy-to-follow prompts guide Novus users through 10 pipetting functions.

14-386-104

Novus GLP Kit 1 includes:

- Finnpipette Novus 10-100µL
- Finnpipette Novus 100-1000µL
- Two Finnpipette Novus stands
- One rack of Finntip Flex 200 and Flex 1000
- Reagent reservoirs demo pack
- Finntip sample pack
- Pipetting guide
- Finnpipette Novus brochure

Novus GLP Kit 2 includes:

- Finnpipette Novus 100-1000µL
- Finnpipette Novus 0.5-5mL
- Two Finnpipette Novus stands
- One rack of Finntip 5ml and Flex 1000
- Reagent reservoirs demo pack
- Finntip sample pack
- Finnpipette Novus brochure
- Pipetting Guide

Novus GLP Kit 3 includes:

- Novus pipette, 1-10µL, micro
- Novus pipette, 10-100µL
- Novus pipette, 100-1000µL
- Three Finnpipette Novus pipette stands
- One rack of Flex 10, Flex 200 and Flex 1000
- Reagent reservoirs demo pack
- Finntip sample pack
- Pipetting guide
- Novus brochure

Novus GLP Kit 4 includes:

- Novus pipette, 10-100µL
- Novus pipette, 100-1000µL
- Novus pipette, 1-10mL
- Three Finnpipette Novus pipette stands
- One rack of Flex 200, Flex 1000 and Finntip 10ml
- Reagent reservoirs demo pack
- Finntip sample pack
- Pipetting guide
- Novus brochure

Description	Volume Range	Cat. No.	Each
Finnpipette Novus GLP Kit 1	10 to 1000µL	**14-386-104**	1015.00
Finnpipette Novus GLP Kit 2	100 to 5000µL	**14-386-105**	1016.00
Finnpipette Novus GLP Kit 3†	1 to 1000µL	**14-386-106**	1497.00
Finnpipette Novus GLP Kit 4†	1 to 10,000µL	**14-386-107**	1497.00

†Kits include three Novus pipettes.

Gilson™ PIPETMAN™ M Single Channel Pipets

Fully motorized, lightweight pipet that virtually eliminates pipetting forces and minimizes RSI (Repetitive Strain Injuries) among users

F81001G

An ergonomic pipetting solution with GLP features that each lab needs

- Motorized piston with adjustable speed that is compatible with varying solution densities
- Lockable volume to prevent inaccuracies
- Color-coded push-button corresponds to matching tip packs
- Service alert reminders
- Unique tip holder design allows for a secure fit of most brands of tips
- Features four essential pipetting modes — reverse, mix, repetitive and pipetting — to best fit your application
- Pipette can be used while charging eliminating bottlenecks and downtime
- Power carrousel conveniently holds and charges up to 5 PIPETMAN M pipets at once, charging 80% of its full capacity in less than one hour

Description	Mfr. No.	Cat. No.	Each
Model P10M, Volume range: 0.5 to 10µL	F81001	**F81001G**	572.00
Model P20M, Volume range: 2 to 20µL	F81002	**F81002G**	572.00
Model P200M, Volume range: 20 to 200µL	F81003	**F81003G**	572.00
Model P1000M, Volume range: 100 to 1000µL	F81004	**F81004G**	572.00
Charging Adapter	F807023	**F807023G**	79.60
Power Carrousel	FB1001	**FB1001G**	520.50

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Prices subject to change.

Gilson™ PIPETMAN Concept™ Pipets

Motorized, electronic pipet that virtually eliminates variability of results among users and requires little force to aspirate and dispense samples

- Pipet requires virtually zero force to aspirate and dispense samples, guaranteeing long-term comfort and safety
- Use thumbwheel to quickly set the volume, navigate and select menu options
- Five pipetting modes: Auto, Auto + Mix, Manual, Repetitive and Reverse – to fit any application
- User-friendly controls and clear display shows battery status, piston position and settings
- PC-based utility software lets you create additional modes and transfer them to the pipet via USB connection
- Internal software alerts maintenance timing
- PC-based utility software to control maintenance program; store reports, read data from and export data
- On-screen indicator shows the number of times the pipet has been readjusted
- Battery gets charged to 80% in one hour and 100% in two hours

REQUIRES:
Power Supply (Cat. No. F30705G)

F31013G

Model	Volume	Compatible Gilson Tips	Mfr. No.	Cat. No.	Each
C10	0.5-10µL	D10, DL10, DFL10ST	F31012	**F31012G**	663.00
C100	5-100µL	D200, DF100ST	F31013	**F31013G**	676.00
C300	20-300µL	D300, DF200ST, DF300ST	F31014	**F31014G**	676.00
C1200	100-1200µL	D1000, D1200, DF1000ST, DF1200ST	F31015	**F31015G**	676.00
C5000	500-5000µL	D5000	F31016	**F31016G**	740.00
C10 mL	1-10mL	D10 mL	F31017	**F31017G**	754.50

Sartorius™ Biohit™ eLINE™ Single-Channel Electronic Pipetters

Enables liquid dispensing twice as fast as mechanical pipetter

Reduces the need for several work stages. Unique DC motor concept provides unbeatable accuracy and precision.

- Electronic operations guarantee user-independent results and prevents RSI
- Built-in error control provides more reliable results
- Effortless, electronic tip ejection with ergonomic design
- Comes with direct charging option
- Available with or without AC adapter (EU, UK, US/JPN and CHN plugs)
- Ergonomic design that suits both left- and right-handed
- Easy programming, six memory places for favorite programs
- Different charging options (charging stand, charging carousel and direct charging)
- Single point calibration for special liquids
- Autoclavable dispensing heads
- Safe Cone Filters (for models >10µL) prevent contamination and damage of pipetter
- Clear LCD-display; easy-to-use keypad with electronic start button
- Nine speeds for both aspiration and dispensing
- Volume range color coding for easy pipet and tip selection
- Easy to clean and maintain
- Low battery indicator

14-559-371

Super Pipetting Feature

- Enables dispensing of the smallest volumes from the air, emptying tip completely
- Increased liquid dispensing force empties the tip, with no drops left hanging
- Prevent droplets from clinging onto the electrically charged outer surface of microplate well
- Increases accuracy of the dispensed volume
- Less tip ejections; savings in tip costs
- Particularly useful for PCR and microplate pipetting
- Available in 0.1-5µL model

WARRANTY: Two years **CERTIFICATIONS:** CE marked

Volume Range	Increments	Inaccuracy	Imprecision	Color Code	Mfr. No.	Cat. No.	Each
With AC Adapter							
0.1 to 5µL	0.05µL	9.50 to 1.20	8.00 to 0.70	Gray	730011	**14-559-365**	728.50
0.2 to 10µL	0.05µL	12.00 to 0.90	10.00 to 0.40	Gray	730021	**14-559-367**	728.50
5 to 120µL	0.50µL	3.50 to 0.40	1.50 to 0.15	Yellow	730041	**14-559-369**	728.50
10 to 300µL	1µL	3.50 to 0.40	2.00 to 0.15	Orange	730061	**14-559-371**	728.50
50 to 1000µL	5µL	2.00 to 0.40	1.00 to 0.15	Blue	730081	**14-559-373**	728.50
100 to 5000µL	10µL	1.00 to 0.50	0.40 to 0.15	Green	730101	**14-559-375**	728.50

NOTE: Where a range is given, the first value applies to the smallest volume in the stated range; the second, to the largest volume. (Exception: for the 0.1 to 5µL pipetter, the first value is for a dispensed volume of 0.5µL.)

Sartorius™ Biohit™ Picus™ Single-Channel Electronic Pipetters

Unbeatable accuracy and precision due to advanced technology and error control system

Small, lightweight electronic pipetter helps to avoid RSI (repetitive strain injury). Ergonomic benefits include electronic tip ejection, adjustment wheel for scrolling menus, adjusting volume and controlling manual pipetting and a feather light operating button.

- Helps prevent repetitive strain injury (RSI) due to light weight, ergonomic design and electronic tip ejection
- Achieve better, more reliable results with new generation technology and error control system
- Save time with fast one-hand adjustment, a unique built-in microplate tracker and easy programmability
- Variety of pipetting modes in user friendly interface including memory places for favorite programs
- Unique Tracker in conjunction with pipetting, reverse pipetting and multi-dispensing modes to help microplate work
- Adjustment possibility for 1-point, 2-points and 3-points
- Easy maintenance of lower parts with GLP (Good Laboratory Practice) information integrated in software for following the service and calibration
- Safe-Cone filters in all models >10µL to prevent contamination
- Autoclavable lower parts in all models (excluding 1200µL models)
- Compatible with Biohit electronic pipetter charging systems, charging stand for one pipetter and charging carousel for four pipetters
- Direct charging option with micro USB cable

14-559-355

Volume Range	Increments	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
0.2 to 10µL	0.02µL	2.50 to 0.90	1.50 to 0.40	Gray	735021	**14-559-350**	840.50
5 to 120µL	0.10µL	2.00 to 0.40	2.00 to 0.40	Yellow	735041	**14-559-351**	840.50
10 to 300µL	0.20µL	1.50 to 0.40	1.00 to 0.15	Orange	735061	**14-559-352**	840.50
50 to 1000µL	1µL	1.50 to 0.40	0.50 to 0.15	Blue	735081	**14-559-353**	840.50
100 to 5000µL	5µL	1.00 to 0.50	0.40 to 0.15	Green	735101	**14-559-354**	840.50
500 to 10000µL	10µL	3.00 to 0.60	0.60 to 0.20	Red	735111	**14-559-355**	825.00

† Where a range is given, the first value applies to the smallest volume in the stated range; the second, to the largest volume. (Exception: for the 0.1 to 5µL pipetter, the first value is for a dispensed volume of 0.5µL.)

ON THE WEB...

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Prices subject to change.

Eppendorf™ Xplorer™ plus Single-Channel Electronic Pipetters

With intuitive operating system and design for simplicity, precision and reproducibility

Facilitates performance of additional, intelligent applications including: aspirating, diluting, sequential dispensing and reverse pipetting. Also, helps eliminate delays due to complicated programming and/or inflexible processes. Provides precisely adjustable parameters, maximum reproducible results, fatigue-free work and consistent, full control over the pipetting processes.

- Multifunctional rocker: "Up is up and down is down" principle
- Easy selection of all functions with the practical selection dial
- Operate in the language of your choice
- Clearly arranged color display; no sub-menus; help function
- Innovative rocker: When the tip is ejected, the piston automatically returns to zero position
- ON/OFF switch: Switches the pipetter off during longer periods of inactivity
- Additional applications include aspirating, diluting, sequential dispensing and reverse pipetting
- Programming: One-time programming of sequences for easier handling of complex processes
- Individual fixed volume setting: Desired volume can be saved
- Password protection: Protects programming and adjustment
- Individual speed setting: Sets parameters to your individual working speed
- Pipetter maintenance reminder function, based on time or frequency of use as desired
- Reliably reproducible results
- Tips always rest in the same position
- Volume and speed precisely and reproducibly adjustable
- Adjustable to your work environment and requirements

PhysioCare Concept™

- Reduced weight
- Improved ergonomics
- Perfect balance
- Optimally angled pipetter head
- Improved view and high resolution display
- Spring-loaded tip cone provides maximum tightness

14-286-554

Volume Range	Operating Button Color Code	Mfr. No.	Cat. No.	Each
0.5 to 10µL	Medium Gray	4861000708	**14-286-551**	996.03
5 to 100µL	Yellow	4861000716	**14-286-552**	996.03
15 to 300µL	Orange	4861000724	**14-286-553**	996.03
50 to 1,000µL	Blue	4861000732	**14-286-554**	996.03
0.25 to 5mL	Violet	4861000740	**14-286-555**	996.03
0.5 to 10mL	Turquoise	4861000759	**14-286-556**	996.03

Specifications			
Volume Range	**Increments**	**Systematic Error (%)**	**Random Error (%)**
Medium Gray: for 20uL tips			
0.5-10uL	1µL	±2.5	±1.8
	5µL	±1.5	±0.8
	10µL	±1.0	±0.4
Yellow: for 200uL tips			
5-100uL	10µL	±2.0	±1.0
	50µL	±1.0	±0.3
	100µL	±0.8	±0.2
Orange: for 300uL tips			
15-300uL	30µL	±2.5	±0.7
	150µL	±1.0	±0.3
	300µL	±0.6	±0.2
Blue: for 1000uL tips			
50-1000uL	100µL	±3.0	±0.6
	500µL	±1.0	±0.2
	1000µL	±0.6	±0.2
Violet: for 5mL tips			
0.25-5mL	500µL	±3.0	±0.6
	2500µL	±1.2	±0.3
	5000µL	±0.6	±0.15
Turquoise: for 10mL tips			
0.5-10mL	1000µL	±3.0	±0.6
	5000µL	±0.8	±0.2
	10000µL	±0.6	±0.15

Note: Data for systematic and random deviations only applies when using Eppendorf epT.I.P.S. pipet tips.

Multichannel/Electronic

Thermo Scientific™ Finnpipette™ Novus™ Multichannel Pipetters

Speed up repetitive dispensing into microplates with 8, 12 or 16-channel formats

This electronic multichannel pipetter is ideal for demanding lab applications, such as delivering a series of different volumes in any desired order or mixing after delivery. The Finnpipette Novus is the first electronic pipetter in the world to have a backlit display feature, which uses similar backlight technology to that of mobile phones. Also features multi-language programming.

Features

- Clear, easy-to-read, intuitive menu navigation
- New multilingual graphical user interface
- Backlight technology eliminates surrounding light reflections and improves contrast in low-light conditions
- Ten pipetting options; nine aspirate/dispense speeds
- Functions include forward, reverse, diluting, stepper pipetting, mixing, sequential stepping and more
- Programmable for your own custom applications
- Easy in-lab calibration for accuracy and precision
- Fully autoclavable tip cone ensures sterility and avoids cross-contamination
- Long-life battery allows approximately 4000 pipetting operations; recharged in about one hour

Ergonomic Design

- Extremely lightweight construction
- Natural index finger operation
- Adjustable finger rest for balance and comfort
- Trigger-action pipetting — index finger controls dispensing with just a soft press of a button
- Soft-touch tip ejection minimizes thumb strain; can be operated by either hand

ORDERING INFORMATION:
Ideal for use with Thermo Scientific Finntip™ pipet tips, as specified in ordering table. Also compatible with most universal-fit tips.

INCLUDES:
Finnpipette Novus, Universal charger, piston removal tool, instructions for use and calibration certificate

WARRANTY:
Two years with Web registration

14-386-06

Calibration Range	Range (functional†)	Increments	Accuracy (%)‡	Precision (CV%)‡	Compatible Finntip	Color Code	Mfr. No.	Cat. No.	Each
8-Channel									
1 to 10µL	0.5–10µL	0.01µL	±12.0 to 2.4	8.0 to 1.6	Flex 10, 10, 20 micro, 50 micro	Pink	46300000	**14-386-01**	1182.00
5 to 50µL	0.5–10µL	0.1µL	5.0 to 1.5±	2.0 to 0.7	Flex 200, 200 Ext. 250	Yellow	46300200	**14-386-02**	1182.00
30 to 300µL	2.5–50µL	1µL	3.0 to 1.0±	0.9 to 0.3	300, Flex 300	Orange	46300400	**14-386-03**	1182.00
100 to 1,200µL	2.5–50µL	1µL	3.0 to 1.0±	0.9 to 0.2	Flex 1200	Turquoise	46300800	**21-377-845**	1349.00
12-Channel									
1 to 10µL	2.5–50µL	0.01µL	12.0 to 2.4±	8.0 to 1.6	Flex 10, 10, 20 micro, 50 micro	Pink	46300100	**14-386-04**	1349.00
5 to 50µL	15–300µL	0.1µL	5.0 to 1.5±	2.0 to 0.7	Flex 200, 200 Ext., 250	Yellow	46300300	**14-386-05**	1349.00
30 to 300µL	15–300µL	1µL	3.0 to 1.0±	1.0 to 0.3	Flex 300, 300	Orange	46300500	**14-386-06**	1349.00
16-Channel									
5 to 50µL	50–1200µL	0.1µL	5.0 to 1.5±	2.0 to 0.7	50 micro	Turquoise	46300700	**14-386-07**	1616.00

†The Functional volume range indicates the volume range that the pipet can cover in the Stepper, Sequential Stepper and Sequential Aspirate functions.

‡Factory calibration limits achieved under strictly controlled conditions (ISO 8655)

*Trademark. See Trademarks at www.fishersci.com

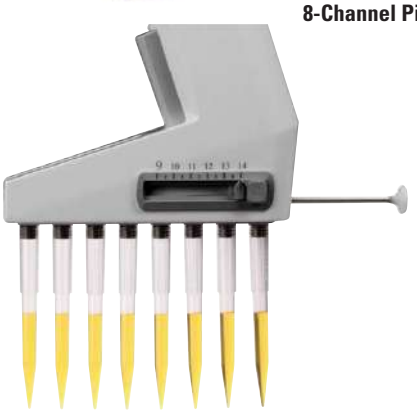
Prices subject to change.

Thermo Scientific™ Matrix™ Equalizer Electronic Multichannel Pipetters

Adjustable tip spacing allows you to transfer multiple samples between any tube rack, microplate or horizontal gel box

Features "equal tip spacing" that expands or contracts with the simple adjustment of a slide rod. Easy-to-use, step-based programming allows you to automate anything you would do with a manual multichannel pipetter. Also includes all the other great features of electronic multichannel pipetters.

8-Channel Pipetters



Benefits

- Allow plate-to-plate transfers between 96- and 384-well microplates
- Permit you to load gels eight or 12 channels at a time directly from a microplate or tube rack
- Light and well balanced; ergonomic design reduces risk of repetitive stress injuries
- On-board memory saves five programs (up to 40 steps each)
- Large volume capacity (1250µL per tip) allows you to fill an entire microplate with up to 100µL per well from a single aspiration
- Five volume ranges and two spacing ranges allow the flexibility to pipet between many types of labware
- Highly leveraged tip ejector utilizes two or three fingers (and not the thumb)
- Step-based programming makes it logical, intuitive and easy to create programs
- Designed for use with Thermo Scientific Matrix pipet tips; ensures superior tip fit with minimal application/ejection forces
- Long-lasting Lithium-ion battery

Expandable Tip Spacing

- Tips can be spaced anywhere from 9mm (96-well microplates) to 14.15mm (12-13mm tube rack spacing or 48-well plates) in increments of 0.1mm
- Distance between tips is always equal — simply set the desired spacing, then pull or push the rod to expand or contract the tips
- Spacing can be set while tips are empty or full, enabling quick transfer of multiple samples at once between labware with different configurations
- Matrix Equalizer 384 models (0.5-12.5, 1-30 and 2-125µL) feature the same unique tip spacing mechanism but allow you to set the tip spacing down to 4.5mm — perfect for multichannel dispensing from 96-well into 384-well plates or for multi-lane sample loading of agarose gels. The 8-channel pipetter expands to 14.15mm; the 12-channel to 9mm

INCLUDES:
AC power supply, warranty card, operators manual, accuracy and precision data sheet, rechargeable Li-Ion battery

APPLICATIONS:
Electronic multichannel pipetting between varying spaced labware; Multichannel gel loading directly from microplates or tube racks; Multichannel pipetting; Multichannel pipetting with tube racks; Multichannel sample transfers between tube racks and microplates; Sample additions; 96- to 384-plate reformatting (and 384 to 96); Serial dilutions

ON THE WEB...
Looking for the new E1 Pipetter?
Visit www.fishersci.com and search for E1 Pipetters

Range	Increments	Accuracy (%)†	Precision (CV%)†	Mfr. No.	Cat. No.	Each
8-Channel Equalizer						
5 to 250µL	0.5µL	±2.5	±0.7	2032	**14-387-132**	2140.00
15 to 1,250µL	1.0µL	±1.5	±0.6	2034	**14-387-133**	2140.00
8-Channel Equalizer 384						
0.5 to 12.5µL	0.05µL	±2.5	±2.0	2139	**14-387-136**	2200.00
1 to 30µL	0.05µL	±2.0	±1.7	2130	**14-387-134**	2200.00
2 to 125µL	0.1µL	±2.0	±1.0	2131	**14-387-135**	2200.00
12-Channel Equalizer 384						
0.5 to 12.5µL	0.05µL	±2.5	±2.0	2239	**14-387-139**	2210.00
1 to 30µL	0.05µL	±2.0	±1.7	2230	**14-387-137**	2210.00
2 to 125µL	0.1µL	±2.0	±1.2	2231	**14-387-138**	2210.00

† Data determined using incremental dispensing; neat sample transfers or simple dilutions will yield considerably better results.

Gilson™ PIPETMAN Concept™ Multichannel Pipets

Motorized, electronic pipet that virtually eliminates variability of results among users and requires little force to aspirate and dispense samples

- Use thumbwheel to quickly set the volume, navigate and select menu options
- Five pipetting modes: Auto, Auto + Mix, Manual, Repetitive and Reverse
- Clear display shows battery status, piston position and settings
- PC-based utility software lets you create additional modes and transfer them to the pipet via USB connection
- Internal software alerts maintenance timing
- PC-based utility software to control maintenance program; store reports, read data from and export data
- On-screen indicator shows the number of times the pipet has been readjusted
- Battery gets charged to 80% in one hour and 100% in two hours
- High reproducibility and consistency amongst all users

REQUIRES:
Power Supply (Cat. No. P30705G)

F31032G

Model No.	Volume Range	Mfr. No.	Cat. No.	Each
C8 × 10	0.5 - 10µL	F31032	**F31032G**	1237.00
C8 × 100	5 - 100µL	F31033	**F31033G**	1237.00
C8 × 300	20 - 300µL	F31034	**F31034G**	1237.00
C12 × 10	0.5 - 10µL	F31042	**F31042G**	1339.69
C12 × 100	5 - 100µL	F31043	**F31043G**	1365.00
C12 × 300	20 - 300µL	F31044	**F31044G**	1365.00

Gilson™ PIPETMAN™ M Multichannel Pipets

Equipped with motorized piston that virtually eliminates pipetting variability among users and minimizes RSI (Repetitive Strain Injuries) among users

- Motorized piston with adjustable piston speed that is compatible with varying solution densities
- Lockable volume to prevent inaccuracies
- Color-coded push-button corresponds to matching tip packs
- Service alert reminders
- Unique tip holder design allows for a secure fit of most brands of tips
- Features four essential pipetting modes – reverse, mix, repetitive and pipetting – to best fit your application
- Pipet can be used while charging; eliminating bottlenecks and downtime
- Designed to exert equal pressure on each piston to ensure consistent volume levels across all channels
- Power carousel conveniently holds and charges up to 5 PIPETMAN M pipets at once, charging 80% of its full capacity in less than one hour
- Gilson Trident and unique spacer distribute ejection forces evenly over each tip, reducing the force required to eject tips

F81005G

Model	Volume Range	Mfr. No.	Cat. No.	Each
8-Channel				
Model P8x20M, 1-20µL	1-20µL	F81005	**F81005G**	1211.00
Model P8x200M, 20-200µL	20-200µL	F81007	**F81007G**	1211.00
12-Channel				
Model P12x20M, 1-20µL	1-20µL	F81006	**F81006G**	1262.00
Model P12x200M, 20-200µL	20-200µL	F81008	**F81008G**	1262.00

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Prices subject to change.

Sartorius™ Biohit™ eLINE™ Multichannel Electronic Pipetters

Twice as fast as a mechanical pipetter

- Unique DC motor concept provides outstanding accuracy and precision
- Fully electronic operations guarantee user-independent results and prevent RSI
- Effortless, electronic tip ejection
- Ensures contamination-free pipetting
- Available with several charging options (charging stand, carousel and direct charging)
- Built-in error control for more reliable results
- Ergonomic design suits both left- and right-handed operation
- Optiload mechanism allows perfect tip sealing
- Easy programming; six memory places for favorite programs
- Single point calibration for special liquids
- Autoclavable dispensing heads (1200µL, 8/12 channel models)
- Safe-Cone Filters help to prevent contamination and damage of pipetter
- One eLINE covers the volume range of two mechanical pipetters
- Comprehensive range of pipetting programs

WARRANTY:
2 years

CERTIFICATIONS:
CE marked

14-559-381

Adapter	Range	Increments	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
8-Channel								
AC-adapter	0.2 to 10µL	0.05µL	4.00 to 0.90	3.00 to 0.50	Gray	730321	**14-559-377**	1162.00
AC-adapter	5 to 120µL	0.50µL	2.00 to 0.50	1.50 to 0.20	Yellow	730341	**14-559-379**	1140.00
AC-adapter	10 to 300µL	1µL	2.00 to 0.50	1.00 to 0.20	Orange	730361	**14-559-381**	1162.00
AC-adapter	50 to 1200µL	5µL	2.50 to 0.50	1.00 to 0.20	Purple	730391	**14-559-383**	1162.00
12-Channel								
AC-adapter	0.2 to 10µL	0.05µL	4.00 to 0.90	3.00 to 0.50	Gray	730421	**14-559-385**	1360.00
AC-adapter	5 to 120µL	0.05µL	2.00 to 0.50	1.50 to 0.20	Yellow	730441	**14-559-387**	1386.00
AC-adapter	10 to 300µL	1µL	2.00 to 0.50	1.00 to 0.20	Orange	730461	**14-559-389**	1386.00
AC-adapter	50 to 1200µL	5µL	2.50 to 0.50	1.00 to 0.20	Purple	730491	**14-559-391**	1386.00

Sartorius™ Biohit™ Picus™ Multichannel Electronic Pipetters

Lightweight pipetter protects against repetitive strain injury

Lightest and smallest electronic pipet ensures an optimal working posture and offers comfortable pipeting. New ergonomic design protects from RSI (repetitive strain injury) and eases workload in long pipetting series. Provides more reliable results with a new generation technology and error control system.

- Helps prevent repetitive strain injury (RSI) due to lightweight, ergonomic design and electronic tip ejection
- Ensures the most accurate, precise and reliable results due to advanced DC-motor concept and built-in error control
- Saves time with extremely fast one-hand adjustment, a unique built-in microplate tracker and easy programmability
- Adjustment wheel for scrolling menus, adjusting volume and controlling manual pipetting
- Variety of pipetting modes in user-friendly interface including memory places for favorite programs
- Unique tracker in conjunction with pipetting, reverse pipetting and multi dispensing modes to help microplate work
- Adjustment possible for 1-point, 2-points and 3-points
- Easy maintenance of lower parts with GLP information integrated in software for service and calibration
- Safe-Cone filters in all models >10µL to prevent contamination
- Autoclavable lower parts in all models (excluding 1200µL model)
- Compatible with Biohit electronic pipetter charging systems, charging stand for one pipetter and charging carousel for four pipetters
- Direct charging option with micro USB cable

14-559-359

Volume Range	Increments	Inaccuracy (%)	Imprecision (%)	Color Code	Mfr. No.	Cat. No.	Each
8-Channel							
0.2 to 10µL	0.02µL	4.00 to 0.90	3.00 to 0.50	Gray	735321	**14-559-356**	1370.00
5 to 120µL	0.10µL	2.00 to 0.50	1.50 to 0.20	Yellow	735341	**14-559-357**	1395.00
10 to 300µL	0.20µL	2.00 to 0.50	1.00 to 0.20	Orange	735361	**14-559-358**	1395.00
50 to 1200µL	1µL	2.50 to 0.50	1.00 to 0.20	Purple	735391	**14-559-359**	1395.00
12-Channel							
0.2 to 10µL	0.02µL	4.00 to 0.90	3.00 to 0.50	Gray	735421	**14-559-360**	1767.00
5 to 120µL	0.10µL	2.00 to 0.50	1.50 to 0.20	Yellow	735441	**14-559-361**	1767.00
10 to 300µL	0.20µL	2.00 to 0.50	1.00 to 0.20	Orange	735461	**14-559-362**	1767.00
50 to 1200µL	1µL	2.50 to 0.50	1.00 to 0.20	Purple	735491	**14-559-363**	1767.00

Eppendorf™ Xplorer™ plus Multichannel Electronic Pipetters

With intuitive operating system and design for simplicity, precision and reproducibility

Facilitates performance of additional, intelligent applications including: aspirating, diluting, sequential dispensing and reverse pipetting. Also, helps eliminate delays due to complicated programming and/or inflexible processes.

- One-time programming of sequences for easier handling of complex processes
- Individual fixed-volume setting
- History function
- Password protection
- Service interval warnings and maintenance reminders
- Reduced weight

Specifications			
Volume Range	**Increments**	**Systematic Error (%)**	**Random Error (%)**
Medium Gray: For 20uL pipet tips			
0.5-10µL	1µL	±5.0	±3.0
	5µL	±3.0	±1.5
	10µL	±2.0	±0.8
Yellow: For 200uL pipet tips			
5-100µL	10µL	±2.0	±2.0
	50µL	±1.0	±0.8
	100µL	±0.8	±0.25
Orange: For 300uL pipet tips			
15-300µL	30µL	±2.5	±1.0
	150µL	±1.0	±0.5
	300µL	±0.6	±0.25
Green: For 1200uL pipet tips			
50-1200µL	120µL	±6.0	±0.9
	600µL	±2.7	±0.4
	1200µL	±1.2	±0.3

Note: Data for systematic and random deviations only applies when using Eppendorf epT.I.P.S. pipet tips.

Volume Range	Color (Button)	Mfr. No.	Cat. No.	Each
8-Channel				
0.5 to 10µL	Medium Gray	4861000767	**14-286-557**	1702.89
5 to 100µL	Yellow	4861000783	**14-286-558**	1702.89
15 to 300µL	Orange	4861000805	**14-286-559**	1702.89
50 to 1,200µL	Green	4861000821	**14-286-560**	1702.89
12-Channel				
0.5 to 10µL	Medium Gray	4861000775	**14-286-561**	2136.65
5 to 100µL	Yellow	4861000791	**14-286-562**	2136.65
15 to 300µL	Orange	4861000813	**14-286-563**	2136.65

Positive Displacement

Gilson™ MICROMAN™ Positive-Displacement Pipets

Accurate and precise pipetting, even with the most viscous and volatile liquids

- Reproducible and accurate results every time thanks to positive-displacement technology
- Piston is located inside the tip or "capillary"; preventing pipet contamination
- Color-coded push-button allows for easy identification of different models and corresponding Gilson CPs
- Dual function push-button that also ejects capillary pistons
- Comfortable PVDF handle resistant to agressive chemicals
- Accurately measure high vapor pressure liquids without leakage or degradation of the tip
- M10 and M100 models are fully autoclavable

F148501G

Model	Volume Range	Capillary Piston	Mfr. No.	Cat. No.	Each
M10	1-10µL	CP10	F148501	**F148501G**	307.00
M25	3-25µL	CP25	F148502	**F148502G**	307.00
M50	20-50µL	CP50	F148503	**F148503G**	307.00
M100	10-100µL	CP100	F148504	**F148504G**	307.00
M250	50-250µL	CP250	F148505	**F148505G**	307.00
M1000	100-1000µL	CP1000	F148506	**F148506G**	307.00

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Repeating Manual

Fisherbrand® HandyStep™ S Repeating Pipetter

Comfortable, dependable and simple to operate

13-668-722

In conjunction with Fisherbrand dispenser tips, the instrument offers 59 different volume settings with accuracy and precision.

- Comfortable slim design; lightweight; well-balanced
- Smooth dispensing and one-handed volume selection
- Reliable robust construction; innovative corrosion-resistant polymers
- Mechanical design (no batteries required)
- Convenient integrated volume table provides a quick reference for dispensed volumes
- Ten tip sizes for 59 different dispense volumes
- Open design allows use of third party tips, no more being locked into a sole source
- Tip ejection system allows user to remove tips without handling

INCLUDES:
Performance certificate; shelf/rack mount, one each 0.1mL, 1mL and 10mL syringe tip; operating manual

NOTES:
Operating limits and exclusions. Liquids unsuitable for use with the Fisherbrand repeating pipetter and dispenser tips include, but are not limited to, those with: Vapor pressure exceeding 500mbar. Viscosity: 20mPa S with 50mL tips; 260mPa S with 5mL Tips; 977mPa S with 1mL Tips. Reagents that attack PP (Tip cylinder), HDPE (Tip piston), LCP (Tip piston 0.1mL) or PC/PBT and polycarbonate. Temperature of instrument and reagent must be between 59° and 40°C (15° and 104°F).

Description	Cat. No.	Each
HandyStep S Repeating Pipetter	13-668-722	391.50

Thermo Scientific™ Finnpipette™ Multistepper Pipetter

Reduces the risk of error and increases productivity in immunoassay applications

Eight-channel air-displacement pipetter, designed especially for work with microplates. Easy to use — simply attach, fill and prime the module and dial the selected volume.

- Delivers 50, 100, 150, 200 or 250µL
- With a single loading, it can deliver 24 × 50µL=192 wells, 12 × 100µL=96 wells, 8 × 150µL=64 wells, 6 × 200µL=48 wells, or 5 × 250µL=40 wells
- All eight channels are calibrated to simultaneously dispense exactly the same volume of liquid Pipetter capacity: 1250µL
- Accuracy: ±5.0 to 2.0%; precision: 5.0 to 2.0%
- Handy volume chart on the handle lets you know the maximum number of deliveries possible at a given volume setting

21-377-370

Design

- Universal handle also fits the seven single-channel Finntip™ Steppers
- Lightweight construction minimizes hand fatigue during repetitive dispensing
- Separate tip ejector for safe and effortless tip disposal
- Wide finger rest minimizes operator hand strain
- Module rotates a full 360°, optimizing efficiency for both right and left-handed users

ORDERING INFORMATION:
Accepts Finntip Multistepper 1500µL tips. They are extra long, with more air space between the liquid and tip cone to prevent contamination.

Description	Mfr. No.	Cat. No.	Each
Handle and module	4540-500	**21-377-370**	893.00
8-Channel Module only	2206-590	**21-377-371**	506.00

ACCESSORIES

Thermo Scientific™ Finnpipette™ Stepper Pipetter: Adapters for 25 and 50mL tips

Type	Mfr. No.	Cat. No.	Pack of
Nonsterile	9420-300	**21-377-162**	10/127.90
Sterile	9420-310	**21-377-163**	5/98.40

Thermo Scientific™ Finnpipette™ Stepper Pipetter

Lightweight, easy-to-use repeater pipetter — designed for one-handed dispensing

- Makes up to 45 deliveries before refilling is necessary
- Positive displacement design ensures accurate results, even for viscous, volatile or other problematic liquids
- Lightweight, ergonomic handle and wide finger rest minimize operator hand strain
- Operation is simple — just attach the appropriate tip size, fill and prime the tip and dial the selected volume
- Volume is easy to set, with the aid of the convenient volume-setting chart located on the handle and duplicated here (see Volume Setting Chart for Finntip™ Stepper tips, below)

ORDERING INFORMATION:
Universal Stepper handle is also available with an eight-channel module. For convenient storage, pipetter stand is available (Cat. No. 14-387-14).

INCLUDES: Unit comes with one adapter (nonsterile) necessary for use with 25 or 50mL tips.

21-377-147

REQUIRES:
Uses the Thermo Scientific Finntip Stepper tip, a plunger-style tip available in nonsterile or sterile (individually wrapped) form. This tip comes in seven sizes from 0.5 to 50mL, each with five different delivery volumes, for an overall dispensing range of 10 to 5000µL. Only the disposable tip comes in contact with the sample, eliminating the risk of contaminating the pipetter body.

Description	Mfr. No.	Cat. No.	Each
Finnpipette Stepper	4540-000	**21-377-147**	395.50

Gilson™ DISTRIMAN™ Positive-Displacement Repetitive Pipet

Positive-displacement, continuously adjustable repeater pipet that simplifies multiple dispensing

- Only three DistriTip™ syringes (Micro 125µL, Mini 1250µL and Maxi 12.5mL) needed to cover the entire volume range
- Use with Gilson pure polypropylene DistriTip syringes
- Dispense volume reads directly in microliters, eliminating troublesome calculations and costly mistakes
- Can be used with viscous and volatile solutions offering more accurate results than air-displacement pipettes

NOTES:
Gilson maximum permissible errors are guaranteed only when PIPETMAN pipettes are used with the recommended Gilson PIPETMAN Tips.

F164001G

Description	Mfr. No.	Cat. No.	Each
DISTRIMAN Repetitive Pipet	F164001	**F164001G**	511.50

Eppendorf™ Repeater™ Plus Pipetter

Offers expanded dispensing range and makes up to 100 repetitive deliveries

21-380-9 (25mL tip not included)

- Expanded dispensing range of 1.0µL to 10mL including 12µL, 65µL and 1.1mL
- Performs a greater number of successive deliveries (up to 100)† from a single aspiration of sample — further enhancing efficiency and reducing tedium
- Accuracy to ±0.3%; precision to ≤0.25%
- With 20 different volume settings for each of the nine Eppendorf™ Combitips™ Plus Tip sizes, fewer tips cover a given dispensing range
- Unit automatically recognizes the size tip in use and displays volume selection on the digital LCD, reducing dispensing errors
- Tip mounting is quick and easy; removal is hands-off, by a touch of the ejector button
- Choose from sterile and nonsterile Eppendorf Combitips Plus Tips and Eppendorf Biopur™ Combitips Plus Tips, which are certified sterile as well as pyrogen-, RNase-, DNA- and ATP-free
- Made of durable materials and designed for smooth operation and user comfort

ORDERING INFORMATION:
Fits in Eppendorf Carousel Stand with accessory adapter. For more information about the carousel stand, visit www.fishersci.com or contact your Fisher Customer Service Representative.

Compatible Tips: The Repeater Plus Pipetter accepts only Eppendorf Combitips Plus Tips; the original Repeater Pipetter accepts these, as well as the original Eppendorf Combitips Tips.

INCLUDES:
Individual Certificate of Conformity, one 5mL Combitips Plus tip.

WARRANTY:
Two year

NOTES:
† With dial setting of 0.5. In all, 20 volume selections (dial settings) can be made, from 0.5 to 10.

Description	Mfr. No.	Cat. No.	Each
Repeater Plus Pipette	022260201	**21-380-9**	579.16
Carousel Stand Adapter	022261592	**21-380-2E**	11.81

Repeating Electronic

BRAND™ HandyStep™ Electronic Repeating Pipetter from BrandTech™

Combines all the benefits of other standard electronic repeating pipetters with broad tip compatibility

13-688-401

Ensures accurate and reliable pipetting and dispensing of many liquids for pharmaceutical, industrial and research laboratories.

- Dispenses volumes from 1.0µL to 50mL, including traditional and nonstandard volumes such as 9.2, 25, 260, 1250µL and more
- Operates in three different modes: single-volume pipetting; repeat dispensing; and Autodispense mode
- Autodispense mode detects operator dispensing rhythm for the first three dispensings, then continues to dispense at that interval for as long as the dispense button is pushed — no time-interval preprogramming required; reduces repetitive motion up to 97%
- Aspirating and dispensing speeds are independently adjustable to ensure optimal accuracy with different liquids
- Large, easy-to-read LCD readout facilitates referencing of volume, operating mode, dispensing/aspirating speeds, battery charge and remaining dispensings during operation
- Automatically recognizes and displays the size of BRAND PD-Tips™ dispenser tips upon insertion; if using alternative tips, just scroll to input the correct tip size
- Battery charges either inside or outside pipetter; purchase second battery pack for nearly continuous pipetting
- Motorized design ensures effortless operation, reducing hand strain and error
- Comfortable for use with either hand

ORDERING INFORMATION:
Electrical requirements: 110V, 50/60Hz.

Compatible Tips: BRAND PD-Tips dispenser tips and most standard syringe tips, including Fisherbrand™ dispenser tips.

INCLUDES:
Charging base, AC adapter, one battery pack, certificate of performance, operating manual and a selection of PD-Tips

WARRANTY:
One year

Description	Capacity	Mfr. No.	Cat. No.	Each
HandyStep Electronic Repeating Pipet	1µL–50mL	705012	**13-688-401**	1287.00

Eppendorf™ Repeater™ stream and Xstream Pipetter

Combine easy handling with a broad range of features

05-401-041 (tip not included)

Repeater stream is suitable for all standard pipetting and dispensing applications; for added versatility, the Repeater Xstream can also perform titrations, sequential dispensing and aspiration of supernatants. When used with Combitips™ Plus tips, both systems form an unbeatable and essential lab tool for all applications.

Applications

- Electronic dispensing with programmable memory functions
- Contamination-free dispensing using the positive displacement principle
- Ideal for viscous solutions (e.g., glycerol, oil) or liquids with high vapor pressure (e.g., acetone, ethanol)
- Dispensing in a long series

Features, Repeater Stream and Xstream

- Positive displacement dispensing and pipetting
- Automatic dispensing
- Rapid and ergonomic dispensing with motorized piston
- Single-button tip ejector
- Li-ion battery
- Function selection wheel
- Automatic Combitips Plus tip recognition
- IvD conformity
- Charging possible during operation

Additional Features of the Repeater Xstream

- Aspirating of supernatants
- Titration
- Sequential dispensing

ORDERING INFORMATION:
Uses Eppendorf Combitips Plus Tips.

INCLUDES:
Charging Adapter

WARRANTY:
Two years

Description	Range	Mfr. No.	Cat. No.	Each
Repeater Stream	1µL–50mL	022460803	**05-401-040**	1069.42
Repeater Xstream	1µL–50mL	022460811	**05-401-041**	1244.23

Pipetter Tips

Universal

Fisherbrand® SureOne™ Pipet Tips

New, improved Fisherbrand SureOne Reload system offers a full line of universal fit pipet tips

- All racked sterile tips are shrink wrapped and certified free of RNase, DNase, ATP, pyrogen, bioburden, PCR inhibitors and endotoxin and DNA
- All nonsterile racked and bulk nonfiltered tips are certified free of RNase, DNase, and DNA

SureOne Rack Features

- Flush Fit Inserts sit flush with rack, allowing easy multichannel pipetting
- Recycle logo molded into all rack components
- Notched clasp props lid open for autoclave venting
- Sure Stack lid rim prevents racks from sliding around when stacked and carted around a lab
- Safe-Lock latch allows for one-handed open and closing ability and won't pop open when dropped
- Sure-snap design securely holds insert in place, preventing it from being lifted out while pipetting
- Reversible flip-lid can be either a hinged or lift-off lid; hinged format does not prevent use of a multichannel pipet

SureOne Insert Features

- Inserts are easy to place onto and remove from rack; clip onto rack for a secure fit
- Lot traceable—all inserts contain the Fisherbrand part number, tip volume, lot number
- Indented insert holes inhibit tip movement, stabilizing them for multichannel work
- Contact Clip prevents unnecessary contact with the tips while clipping in inserts

02-707 Series

- Multichannel design; all inserts are 96-well format
- Robust non-pliable design provides secure seals on every tip

SureOne Reload Packaging Features

- Product information displayed on box
- Dust flap prevents debris from contaminating the product
- Finger knockouts allow easy access to slide out product
- Canyon cut package allows for easy tip insert removal
- Reload packaging design saves 58% bench space vs. racked packaging; reduces plastic waste by 52%

ORDERING INFORMATION:
Packaging options include bulk, rack, rack sterile and reload.

Pipetter Compatibility
Universal fit for research-grade pipetters

Volume	Length	Packaging †	Color	Cat. No.	Pack of	Case of
Micropoint Tip, Graduated at 2uL						
0.1–10µL	2"	BP	Natural	**02-707-454**	1000/30.95	10 Pk./265.00
0.1–10µL	1.25"	HR, 10 × 96	Natural	**02-707-436**	960/62.50	5 Pk./277.50
0.1–10µL	1.25"	HRS, 10 × 96	Natural	**02-707-437**	960/65.50	5 Pk./294.00
0.1–10µL	1.25"	RD, 10 × 96	Natural	**02-707-438**	960/54.20	5 Pk./229.00
Micropoint Tip, Graduated at 2.5uL, Extended Length						
0.1–10µL	1.25"	BP	Natural	**02-707-455**	1000/30.45	10 Pk./261.50
0.1–10µL	1.25"	HR, 10 × 96	Natural	**02-707-440**	960/61.10	5 Pk./265.00
0.1–10µL	1.25"	HRS, 10 × 96	Natural	**02-707-441**	960/68.40	5 Pk./292.50
Micropoint Tip, Eppendorf™ Style						
0.5–10µL	1.25"	BP	Natural	**02-707-453**	1000/30.45	10 Pk./261.50
0.5–10µL	1.25"	HR, 10 × 96	Natural	**02-707-433**	960/61.10	5 Pk./265.00
0.5–10µL	1.25"	HRS, 10 × 96	Natural	**02-707-434**	960/65.20	5 Pk./292.50

02-707-436

02-707-455

02-707-453

Contd. on the next page.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand™ SureOne™ Pipet Tips, Contd.

Volume	Length	Packaging †	Color	Cat. No.	Pack of	Case of
Beveled Tip						
1–200µL	1.25"	BP	Natural	**02-707-450**	1000/30.30	10 Pk./245.50
1–200µL	2"	HR, 10 × 96	Natural	**02-707-418**	960/60.80	5 Pk./248.00
1–200µL	2"	HRS, 10 × 96	Natural	**02-707-419**	960/65.20	5 Pk./276.00
1–200µL	2"	RD, 10 × 96	Natural	**02-707-420**	960/47.60	5 Pk./203.00
1–200µL	2"	BP	Yellow	**02-707-451**	1000/28.30	10 Pk./241.00
1–200µL	2"	HR, 10 × 96	Yellow	**02-707-421**	960/57.90	5 Pk./245.50
1–200µL	2"	HRS, 10 × 96	Yellow	**02-707-422**	960/62.40	5 Pk./280.00
1–200µL	2"	RD, 10 × 96	Yellow	**02-707-423**	960/47.60	5 Pk./203.00
Thin Wall Micropoint Tip						
1–200µL	2"	BP	Natural	**02-707-446**	1000/28.60	10 Pk./241.50
1–200µL	2"	HR, 10 × 96	Natural	**02-707-424**	960/57.80	5 Pk./248.00
1–200µL	2"	HRS, 10 × 96	Natural	**02-707-425**	960/62.60	5 Pk./278.50
1–200µL	2"	RD, 10 × 96	Natural	**02-707-426**	960/48.25	5 Pk./205.50
1–200µL	2"	BP	Yellow	**02-707-452**	1000/28.55	10 Pk./245.00
1–200µL	2"	HR, 10 × 96	Yellow	**02-707-427**	960/57.80	5 Pk./248.00
1–200µL	2"	HRS, 10 × 96	Yellow	**02-707-428**	960/62.60	5 Pk./278.50
1–200µL	2"	RD, 10 × 96	Yellow	**02-707-429**	960/49.25	5 Pk./210.00
Beveled Tip, Graduated at 10, 50, 100uL						
1–200µL	2"	BP	Natural	**02-707-449**	1000/34.95	10 Pk./300.50
1–200µL	2"	HR, 10 × 96	Natural	**02-707-415**	960/60.90	5 Pk./255.50
1–200µL	2"	HRS, 10 × 96	Natural	**02-707-416**	960/64.40	5 Pk./284.50
1–200µL	2"	RD, 10 × 96	Natural	**02-707-417**	960/49.45	5 Pk./211.00
1–200µL	2"	BP	Yellow	**02-707-448**	1000/34.95	10 Pk./298.50
1–200µL	2"	HR, 10 × 96	Yellow	**02-707-412**	960/59.50	5 Pk./255.50
1–200µL	2"	HRS, 10 × 96	Yellow	**02-707-413**	960/63.00	5 Pk./280.00
1–200µL	2"	RD, 10 × 96	Yellow	**02-707-414**	960/49.10	5 Pk./209.00
Beveled Tip						
5–300µL	2"	BP	Natural	**02-707-447**	1000/33.50	10 Pk./288.00
5–300µL	2"	HR, 10 × 96	Natural	**02-707-409**	960/59.80	5 Pk./268.50
5–300µL	2"	HRS, 10 × 96	Natural	**02-707-410**	960/66.10	5 Pk./297.00
5–300µL	2"	RD, 10 × 96	Natural	**02-707-411**	960/57.40	5 Pk./248.50
Micropoint Tip, Graduated at 100, 200, 500, 1000uL						
100–1250µL	2.75"	BP	Natural	**02-707-400**	1000/40.20	10 Pk./345.50
100–1250µL	2.75"	HR, 10 × 96	Natural	**02-707-401**	960/69.70	5 Pk./312.50
100–1250µL	2.75"	HRS, 10 × 96	Natural	**02-707-402**	960/80.20	5 Pk./360.00
100–1250µL	2.75"	RI, 10 × 96	Natural	**02-707-403**	960/64.40	5 Pk./282.00
100–1250µL	2.75"	BP	Blue	**02-707-405**	1000/39.40	10 Pk./338.50
100–1250µL	2.75"	HR, 10 × 96	Blue	**02-707-406**	960/69.70	5 Pk./312.50
100–1250µL	2.75"	HRS, 10 × 96	Blue	**02-707-407**	960/82.10	5 Pk./369.00
100–1250µL	2.75"	RI, 10 × 96	Blue	**02-707-408**	960/63.10	5 Pk./283.00
SureOne Empty Racks						
1250µL	----	----	----	**02-707-443**	10/48.75	5 Pk./209.50
For 200–300µL	----	----	----	**02-707-444**	10/48.75	5 Pk./209.50
Micropoint Nano Pipet Tips, Universal Fit						
0.1–10µL	1.25"	LRS	Natural	**02-681-440**	960/107.50	5 Pk./482.50
0.1–10µL	1.25"	RI	Natural	**02-707-135**	480/87.31	10 Pk./772.65
0.1–10µL	1.25"	LR	Natural	**02-707-468**	960/94.80	5 Pk./426.00
0.1–10µL	1.7"	BP	Natural	**02-707-149**	1000/48.45	10 Pk./402.00
0.1–10µL	1.7"	LR	Natural	**02-707-136**	960/91.00	5 Pk./401.50
0.1–10µL	1.7"	LRS	Natural	**02-707-137**	960/95.10	5 Pk./424.50
0.5–10µL	1.8"	LRS	Natural	**02-681-437**	960/108.20	5 Pk./485.50

† Packaging Code, BP: Bulk Pack; HR: Hinged Rack; HRS: Hinged Rack, Sterile; RI: Rack Inserts; RD: Reload Decks (2 stacks of 5 preloaded decks of 80).
‡ With 2.5µL reference mark.

02-707-450

02-707-446

02-707-449

02-707-447

02-707-405

Pipet tips are not shown to scale.

Fisherbrand® Redi-Tip™ Pipet Tips

Premium virgin polypropylene resin and advanced molding methods produce a superior, high quality pipet tip

- Certified by independent laboratory
- Nonsterile: RNase, DNase, DNA, and Pyrogen Free
- Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Redi-Tip™ Pipet Tips

Redi-Tip Reference Tips

- Graduations at 10, 50 and 100µL; 10, 50, 100 and 200µL; or 250, 500 and 1000µL
- Graduations allow for immediate volume verification

Redi-Tip General-Purpose Tips

- For use with most 200µL and 1000µL single and multichannel pipetters
- Hinged racks can be stacked rack-on-rack
- Hinged closure on racks allows top lid to be partially open for steam penetration during autoclaving

Pipetter Compatibility
Universal fit for research grade pipetters

Volume	Length	Color	Packaging†	Cat. No.	Pack of	Case of
Reference Tips						
1–200µL	2" (50.8mm)	Natural	BP	**02-707-504**	1000/81.29	10 Pk./715.02
1–200µL	2" (50.8mm)	Natural	HRS, 10 × 96	**02-681-457**	960/115.40	5 Pk./518.00
1–200µL	2" (50.8mm)	Natural	HR, 10 × 96	**02-707-505**	960/97.82	5 Pk./432.99
1–200µL	2" (50.8mm)	Natural	RI, 5 × 96	**02-707-506**	480/48.55	10 Pk./414.63
1–200µL	2" (50.8mm)	Natural	LR, 10 × 96	**02-681-146**	960/113.40	5 Pk./509.00
1–200µL	2" (50.8mm)	Natural	LRS, 10 x 96	**02-681-147**	960/115.50	5 Pk./518.00
1–200µL	2" (50.8mm)	Natural	SR, 5 × 200	**02-681-150**	1000/105.88	10 Pk./936.87
1–200µL	2" (50.8mm)	Yellow	BP	**02-681-151**	1000/56.20	10 Pk./484.50
1–200µL	2" (50.8mm)	Yellow	LR, 10 × 96	**02-681-152**	960/112.50	5 Pk./505.00
1–200µL	2" (50.8mm)	Yellow	LRS, 10 × 96	**02-681-153**	960/114.90	5 Pk./515.00
1–200µL	2" (50.8mm)	Yellow	HR, 10 × 96	**02-681-154**	960/113.10	5 Pk./506.50
1–200µL	2" (50.8mm)	Yellow	HRS, 10 × 96	**02-681-155**	960/115.40	5 Pk./518.00
1–200µL	2" (50.8mm)	Yellow	SR, 5 × 200	**02-681-156**	1000/107.50	10 Pk./961.00
1–300µL	2" (50.8mm)	Natural	BP	**02-681-157**	1000/81.00	10 Pk./695.00
1–300µL	2" (50.8mm)	Natural	LR, 10 × 96	**02-681-158**	960/96.70	5 Pk./432.00
1–300µL	2" (50.8mm)	Natural	LRS, 10 × 96	**02-681-159**	960/109.10	5 Pk./489.50
1–300µL	2.312" (58.7mm)	Natural	BP	**02-681-454**	1000/75.10	10 Pk./648.50
1–300µL	2.312" (58.7mm)	Natural	LR, 10 × 96	**02-681-455**	960/100.10	5 Pk./449.00
1–300µL	2.312" (58.7mm)	Natural	LRS, 10 × 96	**02-707-119**	960/111.10	5 Pk./501.50
101–1000µL	2.75" (69.85mm)	Natural	BP	**02-681-168**	1000/61.10	10 Pk./526.50
101–1000µL	2.75" (69.85mm)	Natural	LR, 10 × 100	**02-681-169**	1000/159.10	5 Pk./694.00
101–1000µL	2.75" (69.85mm)	Natural	LRS, 10 × 100	**02-681-170**	1000/138.90	5 Pk./635.50
101–1000µL	2.75" (69.85mm)	Natural	SR, 2 × 500	**02-681-171**	1000/110.70	5 Pk./499.00
101–1000µL	2.75" (69.85mm)	Blue	BP	**02-681-163**	1000/64.10	10 Pk./552.00
101–1000µL	2.75" (69.85mm)	Blue	LR, 10 × 100	**02-681-164**	1000/153.60	5 Pk./679.00
101–1000µL	2.75" (69.85mm)	Blue	LRS, 10 × 100	**02-681-165**	1000/138.50	5 Pk./626.50
101–1000µL	2.75" (69.85mm)	Blue	SR, 2 × 500	**02-681-166**	1000/121.10	5 Pk./546.00
General-Purpose Tips						
1–200µL	2" (50.8mm)	Yellow	BP	**02-707-500**	1000/81.29	10 Pk./719.10
1–200µL	2" (50.8mm)	Yellow	HR, 10 × 96	**02-707-501**	960/90.47	5 Pk./400.35
1–200µL	2" (50.8mm)	Yellow	HRS, 10 × 96	**02-707-502**	960/115.16	5 Pk./509.49
1–200µL	2" (50.8mm)	Yellow	RI, 5 × 96	**02-707-503**	480/68.60	10 Pk./590.00
101–1000µL	2.75" (69.85mm)	Blue	BP	**02-707-507**	1000/84.30	10 Pk./750.00
101–1000µL	2.75" (69.85mm)	Blue	HR, 10 × 100	**02-707-508**	1000/95.20	5 Pk./425.00
101–1000µL	2.75" (69.85mm)	Blue	HRS, 10 × 100	**02-707-509**	1000/163.20	5 Pk./742.05
101–1000µL	2.75" (69.85mm)	Blue	RI, 10 × 100	**02-707-510**	1000/92.10	5 Pk./411.00
101–1000µL	2.75" (69.85mm)	Natural	HR/T, 10 × 100	**02-707-511**	1000/163.20	5 Pk./742.05
Empty Racks with Tip Inserts						
For 200µL tips	----	----	----	**02-681-436**	----	96/271.50
For 1000µL tips	----	----	----	**02-681-438**	1/3.73	50/135.46

† Packaging Code: BP=Bulk Pack; RI=Rack Inserts; HR=Hinged Rack; HRS=Hinged Rack, Sterile; HR/T=Hinged Rack, Trace Metal-Free; LR=Lift-off Rack; LRS=Lift-off Rack, Sterile; SR=Stack Rack.

02-707-504

02-681-151

02-681-157

02-681-454

02-681-168

02-681-163

02-707-500

02-707-507

02-707-511

Pipet tips are not shown to scale.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Standardization Pipet Tips

Premium virgin polypropylene resin and advanced molding methods produce a superior, high quality pipet tip

- Soft pliable tip collar allows this tip to fit on various pipet manufacturers
- Lower cost and increase convenience by purchasing fewer products
- Available in a variety of packaging options
- Eliminate the need to buy pipetter-specific tips
- Certified by independent laboratory
- Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free.

Pipetter Compatibility
Universal fit for research grade pipetters

Volume	Length	Color	Packaging†	Cat. No.	Pack of	Case of
0–200µL	2" (50.8mm)	Natural	BP	**02-681-134**	1000/54.90	10 Pk./436.00
0–200µL	2" (50.8mm)	Natural	LR, 10 × 96	**02-681-135**	960/99.80	5 Pk./436.50
0–200µL	2" (50.8mm)	Natural	LRS, 10 × 96	**21-375-12**	960/109.60	5 Pk./478.50
0–200µL	2" (50.8mm)	Natural	SR, 5 × 200	**21-375-2**	1000/109.20	10 Pk./970.50
0–200µL	2" (50.8mm), Small MLA style	Natural	BP	**21-375G**	1000/89.76	10 Pk./792.54
0–200µL	2" (50.8mm)	Yellow	BP	**02-681-140**	1000/52.30	10 Pk./436.00
0–200µL	2" (50.8mm)	Yellow	LR, 10 × 96	**02-681-141**	960/95.80	5 Pk./421.50
0–200µL	2" (50.8mm)	Yellow	LRS, 10 × 96	**02-681-142**	960/112.60	5 Pk./500.00
0–200µL	2" (50.8mm)	Yellow	SR, 5 × 200	**21-197-27**	1000/120.90	10 Pk./1087.00
1–200µL	2" (50.8mm), Grad. at 10, 50 and 100uL	Natural	BP	**02-681-145**	1000/82.70	10 Pk./731.50
1–250µL	2" (50.8mm), thin wall	Natural	BP	**02-707-102**	1000/73.95	10 Pk./631.89
1–250µL	2" (50.8mm), thin wall	Natural	HR, 10 × 96	**02-707-103**	960/90.90	5 Pk./408.00
1–250µL	2" (50.8mm), thin wall	Natural	HRS, 10 × 96	**02-707-117**	960/99.60	5 Pk./437.50
1–250µL	2" (50.8mm), thin wall	Natural	RI, 5 × 96	**02-707-118**	480/43.35	10 Pk./372.00
200–1000µL	3.44" (87.4mm), Combo	Natural	BP	**02-681-160**	1000/76.91	10 Pk./673.71
200–1000µL	3.44" (87.4mm), Combo	Natural	SR, 3 × 200	**02-681-161**	600/78.10	10 Pk./673.50
200–1300µL	3.125" (79mm)	Blue	BP	**02-681-172**	1000/75.17	10 Pk./633.93
200–1300µL	3.125" (79mm)	Blue	LR, 10 × 100	**02-681-173**	1000/115.00	5 Pk./509.50
200–1300µL	3.125" (79mm)	Blue	LRS, 10 × 100	**22-282-202**	1000/109.85	5 Pk./481.95
200–1300µL	3.125 " (79mm)	Natural	BP	**22-023-350**	1000/119.70	10 Pk./1063.00
200–1300µL	3.125" (79mm)	Natural	LR, 10 × 100	**02-681-176**	960/147.19	5 Pk./647.70
200–1300µL	3.125" (79mm)	Natural	LRS, 10 × 100	**02-681-177**	1000/137.10	5 Pk./604.50

†Packaging Code: BP=Bulk Pack; RI=Rack Inserts; HR=Hinged Rack; HRS=Hinged Rack, Sterile; LR=Lift-off Rack; LRS=Lift-off Rack, Sterile; SR=Stack Rack.

02-681-134

02-681-140

02-681-145

02-707-102

02-681-160

02-681-172

22-023-350

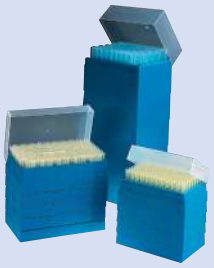
Pipet tips are not shown to scale.

Fisherbrand® Stack-Rack Space-Saver Tips

Increase limited bench space with Stack Racks

- Racks nest together with each rack serving as a lid for the rack below
- Rack packs contain five racks of tips, with a base and dust cover
- Available in 5 × 96, 5 × 100, or 5 × 200 formats
- Certified by independent laboratory
- Nonsterile: RNase, DNase, DNA, and Pyrogen Free

Pipetter Compatibility
Universal fit for research grade pipetters


02-707 Series in racks

Volume	Length	Tip	Color	Packaging	Cat. No.	Pack of	Case of
1–200µL	2" (50.8mm)	Standard	Natural	5 racks of 200	**02-707-100**	1000/78.40	10 Pk./676.00
1–200µL	2" (50.8mm)	Standard	Yellow	5 racks of 200	**02-707-101**	1000/78.40	10 Pk./675.50
1–200µL	2" (50.8mm)	Standard	Natural	5 racks of 96	**02-707-110**	480/39.65	10 Pk./340.50
1–200µL	2" (50.8mm)	Standard	Yellow	5 racks of 96	**02-707-111**	480/39.60	10 Pk./339.50
1–200µL	2" (50.8mm)	Beveled	Natural	5 racks of 200	**02-707-105**	1000/81.70	10 Pk./702.00
1–200µL	2" (50.8mm)	Beveled	Yellow	5 racks of 200	**02-707-106**	1000/82.00	10 Pk./705.00
1–200µL	2" (50.8mm)	Beveled	Natural	5 racks of 96	**02-707-112**	480/51.30	10 Pk./437.50
1–200µL	2" (50.8mm)	Beveled	Yellow	5 racks of 96	**02-707-113**	480/43.70	10 Pk./342.50
1–200µL	2" (50.8mm), Graduated	Beveled	Natural	5 racks of 96	**02-707-114**	480/39.30	10 Pk./330.00
1–200µL	2" (50.8mm), Graduated	Beveled	Yellow	5 racks of 96	**02-707-115**	480/39.40	10 Pk./338.50
101–1000µL	2.75" (70mm)	Standard	Natural	2 stacks/ 5 racks of 100	**02-707-107**	1000/91.50	5 Pk./410.50
101–1000µL	2.75" (70mm)	Standard	Blue	2 stacks/ 5 racks of 100	**02-707-108**	1000/91.50	5 Pk./410.50

02-707-100

02-707-105

02-707-114

02-707-107

Pipet tips are not shown to scale.

Fisherbrand® Low-Retention Pipet Tips

Increase accuracy by reducing sample retention

- Low retention surface minimizes samples loss
- Certified by independent laboratory – Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free
- Natural color

Pipetter Compatibility

Universal fit for research grade pipetters unless otherwise noted.

Volume	Tip Style	Packaging†	Cat. No.	Pack of	Case of
Nonfilter Tips					
10µL	----	BP	**02-717-133**	1000/60.30	10 Pk./522.00
	----	HR, 10 × 96	**02-717-134**	960/53.40	5 Pk./231.00
	----	HRS, 10 × 96	**02-717-135**	960/85.60	5 Pk./374.00
10µL[1]	----	BP	**02-717-136**	1000/60.30	10 Pk./522.00
	----	HR, 10 × 96	**02-717-137**	960/53.40	5 Pk./231.00
	----	HRS, 10 × 96	**02-717-138**	960/57.30	5 Pk./248.50
10µL, Long	----	BP	**02-717-130**	1000/49.50	10 Pk./425.00
	----	HR, 10 × 96	**02-717-131**	960/64.40	5 Pk./266.00
	----	HRS, 10 × 96	**02-717-132**	960/65.00	5 Pk./268.50
150µL	Beveled, Graduated	HRS, 10 × 96	**02-717-164**	960/93.00	5 Pk./419.00
200µL	Beveled	BP	**02-717-139**	1000/60.30	10 Pk./522.00
	Beveled	HR, 10 × 96	**02-717-140**	960/56.10	5 Pk./231.00
	Beveled	HRS, 10 × 96	**02-717-141**	960/89.80	5 Pk./374.00
200µL	Graduated	BP	**02-717-142**	1000/60.30	10 Pk./522.00
200µL	Beveled, Graduated	HR, 10 × 96	**02-717-143**	960/53.40	5 Pk./231.00
	Beveled, Graduated	HRS, 10 × 96	**02-717-144**	960/57.30	5 Pk./248.50
	Beveled, Graduated	RI, 5 × 96	**02-717-145**	1000/56.90	10 Pk./492.00
200µL	Beveled, Graduated	RI, 5 x 96	**02-681-426**	480/47.60	10 Pk./405.50
200µL	Large Orifice	HR, 10 × 96	**02-717-153**	960/76.00	5 Pk./332.00
	Large Orifice	HRS, 10 × 96	**02-717-154**	960/82.50	5 Pk./364.50
300µL[2]	Graduated	BP	**02-717-146**	1000/32.40	10 Pk./278.00
	Graduated	HR, 10 × 96	**02-717-147**	960/53.40	5 Pk./231.00
	Graduated	HRS, 10 × 96	**02-717-148**	960/64.50	5 Pk./266.00
1000µL	----	SR	**02-717-152**	1000/65.50	5 Pk./284.00
1000µL, Long	----	BP	**02-717-149**	1000/62.90	10 Pk./557.00
	----	HR, 10 × 100	**02-717-150**	1000/73.70	5 Pk./319.50
	----	HRS, 10 × 100	**02-717-151**	1000/77.50	5 Pk./337.00
1000µL, Long	Large Orifice	HR, 10 × 100	**02-717-155**	1000/64.70	5 Pk./279.50
	Large Orifice	HRS, 10 × 100	**02-717-156**	1000/69.40	5 Pk./311.50

02-717-137

02-717-164

02-717-144

02-717-149

02-717-155

†Packaging Code: BP=Bulk Pack; HR=Hinged Rack; HRS=Hinged Rack, Sterile; SR=Stack Rack; RI=Rack Insert
[1]Designed to fit Eppendorf™ style pipetters.
[2]Designed to fit Titertek™ pipetters.

Pipet tips are not shown to scale.

Fisherbrand® **OUTFIT YOUR LAB WITH FISHERBRAND**

Fisherbrand outfits every part of your workspace. Whether you are working on the bench, in the freezer, in the hood, on the shelf or in the field, Fisherbrand has products to fit your every need. View our portfolio of over 10,000 products at **www.fishersci.com/fisherbrand.**

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Micro Pipet Tips

For use with micro volume pipetters

- Natural color
- Precision molded for accuracy in low volume pipetting
- Certified by independent laboratory – Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Pipetter Compatibility
Universal fit for research grade pipetters unless otherwise noted

Volume	Length	Cat. No.	Packaging†	Pack of	Case of
0.1–10µL	1.25" (31.8mm)	**21-277-2A**	BP	1000/48.60	10 Pk./414.00
0.1–10µL	1.25" (31.8mm)	**21-277-2B**	LR	960/89.80	5 Pk./401.50
0.1–10µL	1.25" (31.8mm)	**02-681-440**	LRS	960/107.50	5 Pk./482.50
0.1–10µL	1.25" (31.8mm)	**02-707-135**	RI	480/87.31	10 Pk./772.65
0.1–10µL	1.25" (31.8mm)	**02-707-146**[2]	BP	1000/49.30	10 Pk./423.50
0.1–10µL	1.25" (31.8mm)	**02-707-147**[2]	LR	960/95.20	5 Pk./398.50
0.1–10µL	1.7" (43mm)	**02-707-149**	BP	1000/48.45	10 Pk./402.00
0.1–10µL	1.7" (43mm)	**02-707-136**	LR	960/91.00	5 Pk./401.50
0.1–10µL	1.7" (43mm)	**02-707-137**	LRS	960/95.10	5 Pk./424.50
0.5–10µL	1.8" (45.7mm)	**21-197-2F**[1]	BP	1000/86.09	10 Pk./760.92
0.5–10µL	1.8" (45.7mm)	**21-197-2E**[1]	LR	960/112.20	5 Pk./506.00
0.5–10µL	1.8" (45.7mm)	**02-681-437**[1]	LRS	960/108.20	5 Pk./485.50

† Packaging Code: BP=Bulk Pack; LR=Lift-off Rack; LRS=Lift-off Rack, Sterile; RI=Rack Inserts.
[1]Compatable with Eppendorf™ Pipetters.
[2]With 2.5µL reference mark.

21-277-2A

02-707-146

02-707-149

21-197-2E

Pipet tips are not shown to scale.

Fisherbrand® Extended-Length Tips

Extended length tips are ideal for difficult-to-reach samples

- Easily reach the bottom of long tubes
- Minimize pipet contamination by preventing pipet shaft from contacting the tube or vessel
- Natural color
- Certified by independent laboratory – Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Pipetter Compatibility
Universal fit for research grade pipetters

Volume	Length	Packaging†	Cat. No.	Pack of	Case of
1–200µL	3.6" (91.4mm)	BP	**02-681-418**	1000/69.70	5 Pk./299.00
1–200µL	3.6" (91.4mm)	LR, 8 × 204	**02-681-419**	1632/268.00	3 Pk./736.50
1–200µL	3.6" (91.4mm)	LRS, 8 × 204	**02-681-420**	1632/268.00	3 Pk./736.50
101–1000µL	3.6" (91.4mm)	BP	**02-681-421**	1000/59.26	10 Pk./506.94
101–1000µL	3.6" (91.4mm)	LR, 10 × 100	**02-681-422**	1000/111.20	5 Pk./497.50
101–1000µL	3.6" (91.4mm)	LRS, 10 × 100	**02-681-423**	1000/129.80	5 Pk./580.00

† Packaging Code: BP=Bulk Pack; LR=Lift-off Rack; LRS=Lift-off Rack, Sterile.

02-681-418

02-681-421

Pipet tips are not shown to scale.

Fisherbrand® SureGrip™ Pipet Tip Reload System

Full line of disposable pipet tips available in preloaded carriers for fast, easy loading into empty racks

Easy-to-use: just load the carrier into an empty pipet tip rack (reuse your old racks or purchase separately, below). Carrier locks onto rack with a quick, press-and-snap action. When empty, recycle or dispose of the carrier and reuse the rack.

- Compatible with most manufacturers' racks
- Reduces waste by 80%
- Certified DNase, RNase, Human DNA and PCR inhibitor free

Pipet Tips in Racks

- All tips are available racked in sturdy, reusable CellRacks
- Withstand numerous autoclave cycles
- Keep tips aligned for pipetter mounting

Several Tip Sizes Available

- 10µL pipet tip has graduation marks at 2µL and 10µL
- 10µL long reach tip features extended length (45mm) to reach the bottom of tubes without contaminating pipetter shaft, and graduation marks at 2µL, 5µL and 10µL
- 200µL pipet tip features a soft-fit collar for easy mounting and ejection, and graduation marks at 10µL, 50µL and 100µL
- 1250µL pipet tip features an extended length (103mm), racked on 9mm centers (multichannel compatible), and graduation marks at 200µL, 500µL and 1000µL

05-408 Series

ORDERING INFORMATION:
Each pack consists of ten preloaded tip carriers of 96 tips each.

Pipetter Compatibility
Universal fit for research-grade pipetters

Description	Tip Color	Cat. No.	Pack of	Case of
Pipet Tips in Reloads				
10µL	Natural	**05-408-184**	960/84.40	5 Pk./379.50
10µL, Long Reach	Natural	**05-408-187**	960/85.10	5 Pk./373.50
200µL	Natural	**05-408-189**	960/70.80	5 Pk./305.50
200µL	Yellow	**05-408-191**	960/70.80	5 Pk./307.50
1250µL	Natural	**05-408-194**	768/70.10	5 Pk./305.00
Pipet Tips in CellRacks				
10µL	Natural	**05-408-186**	960/109.40	5 Pk./496.00
10µL, Long Reach	Natural	**05-408-188**	960/108.85	5 Pk./481.48
200µL	Natural	**05-408-190**	960/88.80	5 Pk./397.50
200µL	Yellow	**05-408-192**	960/88.80	5 Pk./399.50
1250µL	Natural	**05-408-196**	768/90.40	5 Pk./406.50
Empty CellRacks				
For 10µL tips	----	**05-408-185**	10/43.30	----
For 10µL Long Reach and 200µL tips	----	**05-408-193**	10/43.00	----
For 1250µL tips	----	**05-408-195**	8/46.00	----

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

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Prices subject to change.

Thermo Scientific™ ART™ Non-Filtered Hinged Rack Pipette Tips

Versatile hinged rack enables one-handed access to tips

The Thermo Scientific ART portfolio is now more complete, making it easier than ever to find a tip to fit virtually any pipette, or application in your laboratory.

- Reliable Quality — Complete selection of non-filtered and specialty tips deliver proven ART quality, performance and reliability, backed by the highest Thermo Scientific standards and worldwide support
- One-handed access — Racks offer quick and easy access to pipette tips, saving valuable time
- Secure Storage — Front latch closes and locks, ensuring safe and secure storage throughout
- Versatility — Simply unhinge, turn and realign the cover—now you have a traditional lift-off. Easy as 1-2-3.

CERTIFICATIONS:
Nonsterile products are certified to be free of RNase, DNase, DNA, ATP, Endotoxin, Pyrogen and PCR Inhibitors. Sterile products are certified to be free of RNase, DNase, DNA, ATP, Bioburden, Endotoxin, Pyrogen and PCR Inhibitors

Description	Volume	Sterile	Length	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
ART 10 Non-Filtered Tip	10µL	No	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3502-HR	**13-811-102**	960/80.70	4800/366.00
ART 10 Non-Filtered Tip	10µL	Yes	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3501-HR	**13-811-103**	960/101.78	4800/450.34
ART 10 Non-Filtered Tip	10µL	No	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3502-05-HR	**13-811-104**	960/88.80	4800/403.00
ART 10 Non-Filtered Tip	10µL	Yes	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3501-05-HR	**13-811-105**	960/109.00	4800/497.00
ART 10 REACH Non-Filtered Tip	10µL	No	1.7 in. (43.4mm)	96 Tips/Tray, 10 Trays/Pack	3512-HR	**13-811-110**	960/82.49	4800/365.00
ART 10 REACH Non-Filtered Tip	10µL	Yes	1.7 in. (43.4mm)	96 Tips/Tray, 10 Trays/Pack	3511-HR	**13-811-111**	960/99.44	4800/440.00
ART 10 REACH Non-Filtered Tip	10µL	No	1.7 in. (43.4mm)	96 Tips/Tray, 10 Trays/Pack	3512-05-HR	**13-811-112**	960/91.53	4800/405.00
ART 10 REACH Non-Filtered Tip	10µL	Yes	1.7 in. (43.4mm)	96 Tips/Tray, 10 Trays/Pack	3511-05-HR	**13-811-113**	960/109.00	4800/497.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	No	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3522-HR	**13-811-116**	960/79.60	4800/361.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	Yes	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3521-HR	**13-811-117**	960/99.44	4800/440.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	No	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3522-05-HR	**13-811-118**	960/88.80	4800/403.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	Yes	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3521-05-HR	**13-811-119**	960/109.00	4800/497.00
ART 200 Non-Filtered Tip	200µL	No	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3552-HR	**13-811-126**	960/80.70	4800/366.00
ART 200 Non-Filtered Tip	200µL	Yes	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3551-HR	**13-811-127**	960/96.90	4800/439.50
ART 200 Non-Filtered Tip	200µL	No	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3552-05-HR	**13-811-128**	960/88.80	4800/403.00
ART 200 Non-Filtered Tip	200µL	Yes	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3551-05-HR	**13-811-129**	960/105.60	4800/481.00
ART 200 REACH Non-Filtered Tip	200µL	No	3.6 in. (90.9mm)	96 Tips/Tray, 8 Trays/Pack	3542-HR	**13-811-134**	768/111.87	3840/495.00
ART 200 REACH Non-Filtered Tip	200µL	Yes	3.6 in. (90.9mm)	96 Tips/Tray, 8 Trays/Pack	3541-HR	**13-811-135**	768/128.70	3840/585.00
ART 200 REACH Non-Filtered Tip	200µL	No	3.6 in. (90.9mm)	96 Tips/Tray, 8 Trays/Pack	3542-05-HR	**13-811-136**	768/119.90	3840/545.01
ART 200 REACH Non-Filtered Tip	200µL	Yes	3.6 in. (90.9mm)	96 Tips/Tray, 8 Trays/Pack	3541-05-HR	**13-811-137**	768/141.90	3840/645.00
ART 300 Non-Filtered Tip	300µL	No	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3772-HR	**13-811-144**	960/99.44	4800/440.00
ART 300 Non-Filtered Tip	300µL	Yes	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3771-HR	**13-811-145**	960/113.30	4800/515.00
ART 300 Non-Filtered Tip	300µL	No	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3772-05-HR	**13-811-146**	960/109.61	4800/485.00
ART 300 Non-Filtered Tip	300µL	Yes	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3771-05-HR	**13-811-147**	960/124.30	4800/565.00
ART 1000 Non-Filtered Tip	1000µL	No	3.5 in. (88.9mm)	96 Tips/Tray, 8 Trays/Pack	3102-HR	**13-811-156**	768/82.60	3072/318.00
ART 1000 Non-Filtered Tip	1000µL	Yes	3.5 in. (88.9mm)	96 Tips/Tray, 8 Trays/Pack	3101-HR	**13-811-157**	768/96.05	3072/340.00
ART 1000 Non-Filtered Tip	1000µL	No	3.5 in. (88.9mm)	96 Tips/Tray, 8 Trays/Pack	3102-05-HR	**13-811-158**	768/91.53	3072/324.00
ART 1000 Non-Filtered Tip	1000µL	Yes	3.5 in. (88.9mm)	96 Tips/Tray, 8 Trays/Pack	3101-05-HR	**13-811-159**	768/107.90	3072/393.50
ART 1000 REACH Non-Filtered Tip	1000µL	No	4.7 in. (118.5mm)	96 Tips/Tray, 8 Trays/Pack	3792-HR	**13-811-166**	768/83.93	3072/316.00
ART 1000 REACH Non-Filtered Tip	1000µL	Yes	4.7 in. (118.5mm)	96 Tips/Tray, 8 Trays/Pack	3791-HR	**13-811-167**	768/100.34	3072/376.00
ART 1000 REACH Non-Filtered Tip	1000µL	No	4.7 in. (118.5mm)	96 Tips/Tray, 8 Trays/Pack	3792-05-HR	**13-811-168**	768/92.32	3072/344.00
ART 1000 REACH Non-Filtered Tip	1000µL	Yes	4.7 in. (118.5mm)	96 Tips/Tray, 8 Trays/Pack	3791-05-HR	**13-811-169**	768/110.37	3072/412.00
ART 1250 REACH Non-Filtered Tip	1250µL	No	4.0 in. (102.2mm)	96 Tips/Tray, 8 Trays/Pack	3152-HR	**13-811-172**	768/96.05	3072/340.00
ART 1250 REACH Non-Filtered Tip	1250µL	Yes	4.0 in. (102.2mm)	96 Tips/Tray, 8 Trays/Pack	3151-HR	**13-811-173**	768/103.96	3072/368.00
ART 1250 REACH Non-Filtered Tip	1250µL	No	4.0 in. (102.2mm)	96 Tips/Tray, 8 Trays/Pack	3152-05-HR	**13-811-174**	768./105.09	3072/372.00
ART 1250 REACH Non-Filtered Tip	1250µL	Yes	4.0 in. (102.2mm)	96 Tips/Tray, 8 Trays/Pack	3151-05-HR	**13-811-175**	768/111.10	3072/404.00

Thermo Scientific™ ART™ Non-Filtered Low Retention Pipet Tips

Specifically designed for eliminating sample retention within the pipet tip

- Inner surface is extremely hydrophobic, increasing sample reproducibility and sample accuracy
- Crystal clear tips allow you to easily see transparent samples
- Reference marks on many Thermo Scientific ART tips provide a quick and convenient guide to visually establish whether you are pipetting desired volume of liquid
- All Pure tips are racked, presterilized and certified RNase-, DNase-, DNA- and pyrogen-free
- Other Thermo Scientific racked and bulk tips are nonsterile and autoclavable

Description	Volume	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
Pure Sterile Tips						
Pure 10	0.1-10µL	Racked, 10 × 96	3501-05	**21-402-491**	960/134.90	5 Pk./609.00
Pure 10, Reach	0.1-10µL	Racked, 10 × 96	3511-05	**21-402-497**	960/134.90	5 Pk./609.00
Pure 20L, Ultra Micro	0.5-20µL	Racked, 10 × 96	3521-05	**21-402-494**	960/132.00	5 Pk./609.00
Pure 200L, Thin Wall	0.5-200µL	Racked, 10 × 96	3551-05	**21-402-500**	960/128.40	5 Pk./581.00
Pure 300U	1.0-300µL	Racked, 10 × 96, Multichannel	3771-05	**21-402-507**	960/152.80	5 Pk./692.50
Nonsterile Tips						
10 Micro Tip, MicroPoint	0.1-10µL	Racked, 10 × 96	3502-05	**21-402-492**	960/108.70	5 Pk./489.50
10 Micro Tip, MicroPoint	0.1-10µL	Bulk	3500-05-11	**21-402-493**	1000/78.20	10 Pk./696.50
10 Reach, MicroPoint	0.1-10µL	Racked, 10 × 96	3512-05	**21-402-498**	960/114.30	5 Pk./519.50
10 Reach, MicroPoint	0.1-10µL	Bulk	3510-05	**21-402-499**	1000/76.20	10 Pk./684.00
200	0.5-200µL	Bulk	3550-05	**21-402-502**	1000/71.80	10 Pk./640.00
200L, Thin Wall	0.5-200µL	Racked, 10 × 96	3552-05	**21-402-501**	960/108.70	5 Pk./489.50

21-402-491

21-402-497

21-402-502

Pipet tips are not shown to scale.

Thermo Scientific™ Finntip™ Pipet Tips

Autoclavable, chemical-resistant tips, made of high-quality polypropylene

- Smooth, uniform surface prevents liquid retention
- Volume range from 0.2µL to 10mL
- Available sterile or nonsterile
- Packaging options include racks, bags, boxes, bulk, and refill packs
- Color-coded racks to match the compatible Finnpipette™
- Color-coding only applies to rack and refill packaging

21-377-208

21-377-385

CERTIFICATIONS:
Manufactured according to ISO 9001, ISO 14001 and ISO 13485 (CE/IVD certified)

Pipetter Compatibility

Finntip pipet tips are optimized to be used with Finnpipettes. The universal design enables the compatibility also with pipetters from other manufacturers.

Range	Packaging	Color Code	Mfr. No.	Cat. No.	Pack of
Finntip 10					
0.2–10µL	Bag of 1000	Pink	9400-310	**21-377-209**	1000/68.74
0.2–10µL	Rack, 10 × 96	Pink	9400-300	**21-377-208**	960/86.10
0.2–10µL	Rack, 10 × 96, sterile	Pink	9400-303	**21-377-210**	960/109.30
0.2–10µL	Rack, 4 × 192 + refill, 10 × 192	Pink	9400-326	**14-245-148**	2688/218.66
0.2–10µL	Refill, 20 × 192; Refill kit	Pink	9400-327	**14-245-149**	3840/315.00
Finntip 20					
0.2–20µL	Bag of 1000	Purple	9400-620	**21-377-800**	1000/82.40
0.2–20µL	Rack, 10 × 384, sterile	Purple	9400-613	**21-377-801**	3840/599.00
0.2–20µL	Rack, 10 × 384	Purple	9400-610	**21-377-802**	3840/471.83
Finntip 50					
0.2–50µL	Bag of 1000	Turquoise	9400-360	**21-377-296**	1000/79.62
0.2–50µL	Rack, 10 × 384	Turquoise	9400-370	**21-377-385**	3840/656.00
0.2–50µL	Rack, 10 × 384, sterile	Turquoise	9400-373	**21-377-386**	3840/812.00

21-377-209

21-377-800

21-377-296

Contd. on the next page.

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Prices subject to change.

Thermo Scientific™ Finntip™ Pipet Tips, Contd.

Range	Packaging	Color Code	Mfr. No.	Cat. No.	Pack of
Finntip 200					
5-200µL	Box of 400	----	9400-100	**21-377-43**	400/74.10
5-200µL	Rack, 10 × 96	----	9400-130	**22-028-146**	960/149.13
5-200µL	Rack, 10 × 96	----	9400-133	**21-377-44**	960/165.55
Finntip 250 Universal					
0.5–250µL	Box of 500	Yellow	9400-250	**21-377-144**	500/37.46
0.5–250µL	Bag of 1000	Yellow	9400-230	**21-377-45**	1000/57.97
0.5–250µL	Case of 20,000	Yellow	9400-220	**21-377-297**	20,000/1141.00
0.5–250µL	Rack, 10 × 96	Yellow	9400-260	**21-377-2**	960/74.96
0.5–250µL	Rack, 10 × 96, sterile	Yellow	9400-263	**21-377-126**	960/95.50
0.5 to 250µL	Rack, 4 × 96 + refill, 10 × 96	Yellow	9400-266	**14-245-150**	1/100.80
0.5–250µL	Rack, Refill, 20 × 96	Yellow	9400-267	**14-245-151**	19,20/148.10
Finntip 300					
5–300µL	Bag of 1000	Orange	9401-260	**21-377-49**	1000/62.86
5–300µL	Case of 20,000	Orange	9401-240	**21-377-298**	20,000/1141.00
5–300µL	Rack, 10 × 96	Orange	9401-250	**21-377-128**	960/88.50
5–300µL	Rack, 10 × 96, sterile	Orange	9401-253	**21-377-77**	960/103.83
5–300µL	Refill pack, 10 × 192	Orange	9401-255	**21-377-241**	1920/149.20
Finntip 1000					
200–1000µL	Bag of 1000	Blue	9401-030	**21-377-299**	1000/62.86
200–1000µL	Case of 10,000	Blue	9401-010	**21-377-300**	10,000/572.50
200–1000µL	Box of 200	Blue	9401-070	**21-377-46**	200/18.23
100–1000µL	Rack, 10 x 96	Blue	9401-110	**21-377-840**	960/79.62
100–1000µL	Rack, 10 x 96, sterile	Blue	9401-113	**21-377-841**	960/105.80
100–1000µL	Refill pack, 5 x 192	Blue	9401-115	**21-377-842**	960/74.90
100–1000µL	Bag of 1000	----	9401-410	**21-377-303**	1000/165.55
100–1000µL	Rack, 5 × 96	----	9401-420	**21-377-600**	480/130.70
100–1000µL	Rack, 5 × 96, sterile	----	9401-423	**21-377-601**	480/157.50
Finntip 5mL					
1–5mL	Box of 75	Green	9402-050	**21-377-50**	75/21.75
1–5mL	Bag of 500	Green	9402-030	**21-377-304**	500/106.16
1–5mL	Case of 3000	Green	9402-010	**21-377-305**	3000/477.00
1–5mL	Rack, 5 x 54	Green	9402-070	**21-377-510**	270/93.40
1–5mL	Rack, 5 x 54, sterile	Green	9402-073	**21-377-511**	270/114.10
Finntip 10mL					
2–10mL	Box of 40	Red	9402-150	**21-377-146**	40/16.11
2–10mL	Bag of 100	Red	9402-151	**21-377-52**	100/28.40
2–10mL	Rack, 5 x 24	Red	9402-160	**21-377-167**	120/51.92
2–10mL	Rack, 5 x 24, sterile	Red	9402-163	**21-377-168**	120/57.97

21-377-144

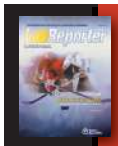
21-377-49

21-377-299

21-377-50

21-377-146

Pipet tips are not shown to scale.



LabReporter
QUARTERLY MAGAZINE

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Thermo Scientific™ ART™ Non-Filtered Reload System

Advanced system reduces waste and saves bench top and storage space

The Thermo Scientific™ ART™ portfolio is now more complete, making it easier than ever to find a tip to fit virtually any pipet, or application in your laboratory.

- Reliable Quality — Complete selection of non-filtered and specialty tips deliver proven ART quality, performance and reliability, backed by the highest Thermo Scientific standards and worldwide support
- Space Saving — Stackable barrier tip packaging allows for tips to pass through offset holes in lower insert
- Easy to use — Blister sleeve guide rails align tip inserts for smooth transfer into the rack
- Sterile Packaging — The outer sleeve protects tips from exterior contamination while refilling inserts
- Environmentally-friendly — The tip packaging option reduces plastic waste
- Multichannel-friendly — The rigid insert design provides reliable tip loading
- Traceable — Lot number and description are printed on every insert

CERTIFICATIONS:
Nonsterile products are certified to be free of RNase, DNase, DNA, ATP, Endotoxin, Pyrogen and PCR Inhibitors.
Sterile products are certified to be free of RNase, DNase, DNA, ATP, Bioburden, Endotoxin, Pyrogen and PCR Inhibitors

Description	Volume	Sterile	Length	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
ART 10 Non-Filtered Tip	10µL	Yes	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3501-RT	**13-811-106**	960/189.02	4800/859.02
ART 10 Non-Filtered Tip	10µL	No	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3502-RT	**13-811-107**	960/71.19	4800/315.00
ART 10 Non-Filtered Tip	10µL	Yes	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3501-05-RT	**13-811-108**	960/101.50	4800/462.00
ART 10 Non-Filtered Tip	10µL	No	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	3502-05-RT	**13-811-109**	960/79.10	4800/350.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	No	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3522-RT	**13-811-120**	960/72.70	4800/330.50
ART 20 Ultra Micro Non-Filtered Tip	20µL	Yes	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3521-RT	**13-811-121**	960/89.27	4800/395.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	No	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3522-05-RT	**13-811-122**	960/79.10	4800/350.00
ART 20 Ultra Micro Non-Filtered Tip	20µL	Yes	1.8 in. (45.7mm)	96 Tips/Tray, 10 Trays/Pack	3521-05-RT	**13-811-123**	960/101.50	4800/462.00
ART 200 Non-Filtered Tip	200µL	No	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3552-RT	**13-811-130**	960/71.19	4800/315.00
ART 200 Non-Filtered Tip	200µL	Yes	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3551-RT	**13-811-131**	960/87.60	4800/399.00
ART 200 Non-Filtered Tip	200µL	No	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3552-05-RT	**13-811-132**	960/79.10	4800/350.00
ART 200 Non-Filtered Tip	200µL	Yes	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	3551-05-RT	**13-811-133**	960/94.92	4800/420.00
ART 300 Non-Filtered Tip	300µL	No	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3772-RT	**13-811-148**	960/89.27	4800/395.00
ART 300 Non-Filtered Tip	300µL	Yes	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3771-RT	**13-811-149**	960/105.09	4800/465.00
ART 300 Non-Filtered Tip	300µL	No	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3772-05-RT	**13-811-150**	960/98.31	4800/435.00
ART 300 Non-Filtered Tip	300µL	Yes	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	3771-05-RT	**13-811-151**	960/113.90	4800/535.00
ART 1000 Non-Filtered Tip	1000µL	No	3.5 in. (88.9mm)	56 Tips/Tray, 10 Trays/Pack	3102-RT	**13-811-160**	560/57.22	2800/244.53
ART 1000 Non-Filtered Tip	1000µL	Yes	3.5 in. (88.9mm)	56 Tips/Tray, 10 Trays/Pack	3101-RT	**13-811-161**	560/63.28	2800/280.00
ART 1000 Non-Filtered Tip	1000µL	No	3.5 in. (88.9mm)	56 Tips/Tray, 10 Trays/Pack	3102-05-RT	**13-811-162**	560/59.89	2800/265.00
ART 1000 Non-Filtered Tip	1000µL	Yes	3.5 in. (88.9mm)	56 Tips/Tray, 10 Trays/Pack	3101-05-RT	**13-811-163**	560/70.06	2800/310.00

Thermo Scientific™ ART™ Non-Filtered Pipet Tips with MicroPoint™ Tip Design

MicroPoint design means the tip profile is nearly 50% smaller than standard blunt-end tips and significantly more narrow than beveled-end tips

- Same superior quality and performance as all Thermo Scientific ART pipet tips
- Crystal clear tips allow you to easily see transparent samples
- Reference marks on many Thermo Scientific ART tips provide a quick and convenient guide to visually establish whether you are pipetting the desired volume of liquid
- ART 10 tips are ideal for low volume samples
- The extended length ART 10 REACH™ and ART 1000 REACH prevent contamination of samples, tubes, and pipetters
- Ultra Micro and Pure Ultra Micro are also well suited for work with low-volume samples
- ART 200 are equivalent to the "Universal Yellow" tip and have a reference mark at 10µL

21-402-42

NOTES:
ART Non-Filtered tips are available in yellow and blue colors, graduated, beveled tips and large volumes.

Pipetter Compatibility
Universal fit for research-grade pipetters

Description	Volume	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
ART Pure 10	0.1–10µL	Racked, Sterile	3501	**21-236-48**	960/129.00	5 Pk./578.00
ART 10	0.1–10µL	Racked	3502	**21-402-39**	960/104.60	5 Pk./455.00
ART 10	0.1–10µL	Bulk	3500	**21-236-47**	1000/70.40	10 Pk./621.00
Pure 10 REACH	0.1–10µL	Racked, Sterile	3511	**21-236-50**	960/129.20	5 Pk./576.00
10 REACH	0.1–10µL	Racked	3512	**21-402-40**	960/110.30	5 Pk./481.00
ART 10 REACH	0.1–10µL	Bulk	3510	**21-236-49**	1000/75.50	10 Pk./667.00
ART Pure 200	0.5–200µL	Racked, Sterile	3551	**21-236-54**	960/123.30	5 Pk./552.50
ART 200	0.5–200µL	Racked	3552	**21-402-42**	960/103.00	5 Pk./451.00
ART 200	0.5–200µL	Bulk	3550	**21-236-53**	1000/70.40	10 Pk./621.00
ART Pure Ultra Micro	0.5–20µL	Racked, Sterile	3521	**21-236-52**	960/129.00	5 Pk./578.00
ART Ultra Micro	0.5–20µL	Racked	3522	**21-402-41**	960/104.60	5 Pk./455.00
ART Ultra Micro	0.5–20µL	Bulk	3520	**21-236-51**	1000/68.30	10 Pk./602.50
ART Pure 1000G	100–1000µL	Racked, Sterile	3591	**21-236-78B**	800/126.90	4 Pk./456.00
ART 1000G	100–1000µL	Racked	3592	**21-236-78C**	800/110.30	4 Pk./388.50
ART 1000G	100–1000µL	Bulk	3590	**21-236-78A**	----	10,000/655.00
ART Pure 1000 REACH	100–1000µL	Racked, Sterile	3791	**21-403-09**	800/128.90	4 Pk./474.50
ART 1000 REACH	100–1000µL	Racked	3792	**21-403-10**	800/111.70	4 Pk./399.50
ART Pure 300	1–300µL	Racked, Sterile	3571	**21-236-56**	960/123.50	5 Pk./567.50
ART 300	1–300µL	Racked	3572	**21-402-46**	960/102.10	5 Pk./455.50
ART 300	1–300µL	Bulk	3570	**21-236-55**	1000/73.90	10 Pk./652.00
ART Pure 300E	1–300µL	Racked, Sterile	3561	**21-402-44**	960/125.80	5 Pk./584.00
ART 300	1–300µL	Racked	3562	**21-402-45**	960/104.60	5 Pk./455.00
ART Pure 200G	40–200µL	Racked, Sterile	3531	**21-236-76B**	960/126.90	5 Pk./567.50
ART 200G	40–200µL	Racked	3532	**21-236-76C**	960/108.80	5 Pk./473.50
ART 200G	40–200µL	Bulk	3530	**21-236-76A**	1000/75.40	10 Pk./666.00
ART Pure XLP	5–200µL	Racked, Sterile	3541	**21-236-77B**	768/170.70	4 Pk./613.50
ART XLP	5–200µL	Racked	3542	**21-236-77C**	768/144.80	4 Pk./519.00
ART XLP	5–200µL	Bulk	3540	**21-236-77A**	1000/115.40	10 Pk./1061.00

Axygen™ 200µL Universal Pipetter Tips

Designed to fit a wide variety of single and multi-channel pipetters

- Optimized tip bevel reduces sample hang-up, improves pipetting accuracy
- Maxymum recovery allows complete retrieval of precious samples, saves costly reagents
- Wide bore tips of orifice size: 0.062" (1.52mm) makes it ideal for pipetting viscous materials, genomic DNA or delicate cell cultures
- Graduation marks allow a visual confirmation of pipettor draw volume
- Presterilized tips are e-beam irradiated to prevent product degradation
- Clean-room manufacturing environment certifies products safe from RNase, DNase and pyrogen safe

ORDERING INFORMATION:
Available in bulk, racked or stack rack formats.

Tip Color	Tip Type	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
Clear	Universal fit	Racked	T-210-C-STK	**14-223-376**	----	4800/282.50
Yellow	Universal fit	Racked	T-210-Y-STK	**14-223-377**	----	4800/198.10
Clear	Maxymum Recovery Pre Sterilized Universal Fit	Racked, Presterilized	T-200-C-L-STK-S	**14-223-374**	----	4800/396.50
200µL, Bevelled Tips						
Clear	Universal fit	Racked, Presterilized	T-200-C-R-S	**14-222-718**	960/57.70	4800/238.50
Clear	Universal fit	Stack Rack, Presterilized	T-200-C-STK-S	**14-222-720**	----	4800/326.50
Clear	Universal fit	Bulk	T-200-C	**14-222-712**	----	20,000/481.50
Clear	Universal fit	Racked	T-200-C-R	**14-222-717**	960/50.90	4800/208.00
Clear	Universal fit, Maxymum Recovery	Stack Rack, Presterilized	TR-222-C-L-STK-S	**14-223-386**	----	4800/343.50
Clear	Universal fit	Stack Rack	T-200-C-STK	**14-222-719**	480/35.05	4800/297.50
Yellow	Universal fit	Racked, Presterilized	T-200-Y-R-S	**14-222-723**	----	4800/238.50
Yellow	Universal fit	Stack Rack, Presterilized	T-200-Y-STK-S	**14-222-725**	----	4800/315.50
Yellow	Universal fit	Bulk	T-200-Y	**14-222-721**	1000/29.75	20,000/486.00
Yellow	Universal fit	Racked	T-200-Y-R	**14-222-722**	960/47.05	4800/200.50
Yellow	Universal fit	Stack Rack	T-200-Y-STK	**14-222-724**	480/48.15	4800/417.50
Clear	Universal fit, Maxymum recovery	Racked, Presterilized	T-200-C-L-R-S	**14-222-715**	960/61.50	4800/254.00
Clear	Universal fit, Maxymum Recovery	Bulk	T-200-C-L	**14-222-713**	----	20,000/795.00
Clear	Universal fit, Maxymum Recovery	Racked	T-200-C-L-R	**14-222-714**	960/57.70	4800/238.50
Clear	Universal fit, Maxymum Recovery	Stack Rack	T-200-C-L-STK	**14-222-716**	----	4800/372.00
200µL, Non-Bevelled Tips						
Clear	Fine-Point	Racked, Presterilized	T-210-C-R-S	**14-222-733**	----	4800/387.50
Clear	Fine-Point	Bulk	T-210-C	**14-222-731**	----	20,000/702.00
Clear	Fine-Point	Racked	T-210-C-R	**14-222-732**	----	4800/368.50
Yellow	Fine-Point	Bulk	T-210-Y	**14-222-734**	----	20,000/714.50
Yellow	Fine-Point	Racked	T-210-Y-R	**14-222-735**	----	4800/356.50
Yellow	Fine-Point	Racked, Presterilized	T-210-Y-R-S	**14-222-736**	----	4800/374.50
200µL, Wide Bore Tips						
Clear	Universal fit, Maxymum Recovery	Bulk	T-205-WB-C-L	**14-223-375**	----	20,000/768.50
Clear	Universal fit, Maxymum Recovery	Racked, Presterilized	T-205-WB-C-L-R-S	**14-222-728**	----	4800/449.00
Clear	Universal fit, Maxymum Recovery	Racked	T-205-WB-C-L-R	**14-222-727**	----	4800/394.00
Clear	Universal fit	Racked, Presterilized	T-205-WB-C-R-S	**14-222-730**	960/85.60	4800/379.50
Clear	Universal fit	Bulk	T-205-WB-C	**14-222-726**	----	20,000/703.50
Clear	Universal fit	Racked	T-205-WB-C-R	**14-222-729**	----	4800/367.50

14-222-712

14-222-721

14-222-731

14-222-734

Pipet tips are not shown to scale.

Contd. on the next page.

Axygen™ 200µL Universal Pipetter Tips, Contd.

Tip Color	Tip Type	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
200µL, Bevelled, Reference Tips						
Clear	Universal fit	Racked, Presterilized	TR-222-C-R-S	**14-222-817**	960/57.90	4800/238.50
Clear	Universal Fit	Bulk	TR-222-C	**14-222-811**	1000/29.75	20,000/486.00
Clear	Universal fit	Racked	TR-222-C-R	**14-222-816**	----	4800/208.50
Clear	Universal fit	Stack Rack	TR-222-C-STK	**14-222-818**	960/83.30	9600/416.50
Yellow	Universal fit	Racked, Presterilized	TR-222-Y-R-S	**14-222-822**	----	4800/238.50
Yellow	Universal fit	Bulk	TR-222-Y	**14-222-820**	----	20,000/487.00
Yellow	Universal fit	Racked	TR-222-Y-R	**14-222-821**	----	4800/208.00
Yellow	Universal fit	Stack Rack	TR-222-Y-STK	**14-222-823**	----	4800/207.00
Clear	Universal fit, Maxymum Recovery	Racked, Presterilized	TR-222-C-L-R-S	**14-222-814**	960/61.60	4800/249.50
Clear	Universal fit, Maxymum Recovery	Bulk	TR-222-C-L	**14-222-812**	1000/47.45	20,000/805.00
Clear	Universal fit, Maxymum Recovery	Racked	TR-222-C-L-R	**14-222-813**	960/57.90	4800/238.50
Clear	Universal fit, Maxymum Recovery	Stack Rack	TR-222-C-L-STK	**14-222-815**	480/44.35	4800/376.50
Clear	Universal fit	Stack Rack, Presterilized	TR-222-C-STK-S	**14-222-819**	480/49.30	4800/433.00
Clear	Universal fit, Maxymum Recovery	Stack Rack, Presterilized	TR-222-C-L-STK-S	**14-223-386**	----	4800/343.50
250µL, Bevelled, Reference Tips						
Clear	Universal fit	Racked, Presterilized	TR-333-C-R-S	**14-222-829**	----	4800/238.50
Clear	Universal fit	Bulk	TR-333-C	**14-222-824**	----	20,000/460.00
Clear	Universal fit	Racked	TR-333-C-R	**14-222-828**	----	4800/208.00
Clear	Universal fit, Maxymum Recovery	Racked, Presterilized	TR-333-C-L-R-S	**14-222-827**	----	4800/255.00
Clear	Universal fit, Maxymum Recovery	Bulk	TR-333-C-L	**14-222-825**	----	20,000/769.50
Clear	Universal fit, Maxymum Recovery	Racked	TR-333-C-L-R	**14-222-826**	----	4800/238.50
Clear	Universal fit, Maxymum Recovery	Stack Rack	TR-333-C-L-STK	**14-223-387**	----	4800/262.50

14-222-726

14-222-811

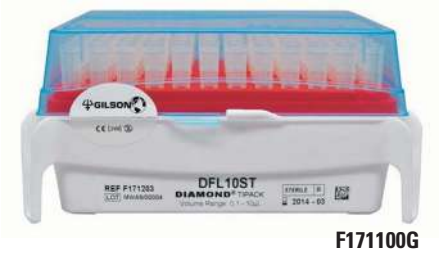
Pipet tips are not shown to scale.

Gilson™ PIPETMAN Tipack™ Racked Pipet Tips

Engineered to be functional, convenient and robust

- Optimized geometry and pure polypropylene material ensure low retention and naturally hydrophobic surface
- Requires low tip-mounting force
- Robust and designed to withstand autoclaving
- Sterility assurance level SAL 10^{-6} guaranteed, using gamma irradiation
- All packs are wrapped in medical device quality plastic which provides a complete shield against contamination
- Indicator dots used on Gilson products undergo an irreversible color change upon sterilization; yellow gamma dots turn red when products have been properly exposed
- Tipacks are securely sealed with a sticker; a full product description is given on the Tipack for traceability and easy identification
- Available in sterilized or autoclavable packages
- Manufactured in a clean room and hence no risk of contamination
- Full traceability from the mold to the bench guaranteed
- Easy identification with color-coded packaging to meet GLP requirements

ORDERING INFORMATION:
10 Tipacks of 96 racked tips



F171100G

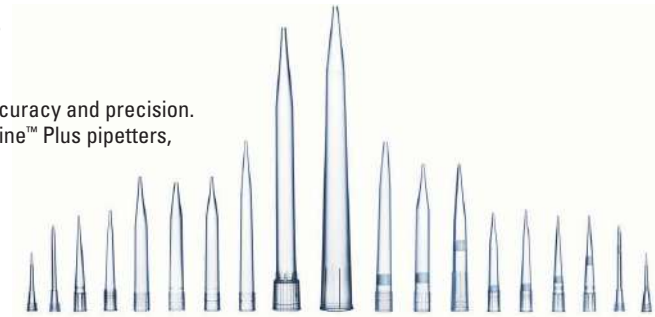
Model	Volume Range	Tip Length	Mfr. No.	Cat. No.	Pack of
Autoclavable					
D10	0.1-10µL	30mm	F171100	**F171100G**	960/55.90
DL10	0.1-20µL	45mm	F171200	**F171200G**	960/55.90
D200	2-200µL	51mm	F171300	**F171300G**	960/45.55
D300	20-300µL	51mm	F171400	**F171400G**	960/45.55
D1000	100-1000µL	51mm	F171500	**F171500G**	960/47.60
D1200	100-1200µL	84mm	F171600	**F171600G**	960/55.90
D5000†	500 to 5000µL	10.4mm	F161370	**F161370G**	600/152.10
D10mL‡	1-10mL	16mm	F161230	**F161230G**	240/162.40
γ-Ray sterilized					
D10	0.1-10µL	30mm	F171101	**F171101G**	960/66.20
DL10	0.1-20µL	45mm	F171201	**F171201G**	960/66.20
D200	2-200µL	51mm	F171301	**F171301G**	960/55.90
D300	20-300µL	51mm	F171401	**F171401G**	960/55.90
D1000	100-1000µL	51mm	F171501	**F171501G**	960/59.00
D1200	100-1200µL	84mm	F171601	**F171601G**	960/66.20

†12 Tipacks of 50 tips
‡8 Tipacks of 30 ips

Sartorius™ Biohit™ Optifit Pipet Tips

The perfect match for your pipetter

Perfect tip fitting and sealing to the pipetter results in the best possible accuracy and precision. Compatible with Optiload feature in Biohit Picus, eLINE™, mLINE™ and Proline™ Plus pipetters, enabling ergonomic and light tip attachment and ejection.



Optifit Pipet Tips

- Precision made tips
- Provide best possible accuracy and precision
- Compatible with most other pipetter makes
- ISO 8 Clean Room manufacturing process
- Made from highest quality virgin polypropylene
- DNase, RNase and endotoxin-free certified
- Available as e-beam presterilized or nonsterilized
- Informative rack labeling improves tip identification and traceability: volume, product number, lot number
- Racks, trays and tips are 100% recyclable
- Air-tight plastic wrapping around the rack secures purity during transport and storage (plastic wrapping is regular waste)
- Tip trays are color-coded to indicate the matching, color-coded Biohit pipetter
- Covers a large range of tip volumes from 10µL to 5mL
- Fully autoclavable at 121°C for 20 minutes
- Filtered tips available; contact your Fisher Customer Service Representative

CERTIFICATIONS:
CE certified. Manufactured according to ISO 9001 and ISO 13485.

Volume	Length	Packaging	Sterile	Color Code	Mfr. No.	Cat. No.	Pack of	Case of
0.1 to 10µL	31.5mm	Single tray, 10 × 96	No	Gray	790010	**14-559-460**	960/72.50	8 Pk./592.00
0.1 to 10µL	31.5mm	Single tray, 10 × 96	Yes	Gray	790011	**14-559-461**	960/101.00	8 Pk./828.50
0.1 to 10µL	31.5mm	Refill tower, 10 × 96	No	Gray	790012	**14-559-462**	960/49.45	19 Pk./944.00
0.1 to 10µL	31.5mm	Refill Pack, 20 × 96	Yes	Gray	790013	**14-559-463**	1920/130.00	4 Pk./512.00
0.1 to 10µL	31.5mm	Bulk in box, 1000	No	Gray	790014	**14-559-464**	100/34.00	32 Pk./1082.00
0.1 to 10µL	46mm	Single tray, 10 × 96	No	Gray	783210	**14-559-465**	960/69.40	5 Pk./354.00
0.1 to 10µL	46mm	Single tray, 10 × 96	Yes	Gray	783211	**14-559-466**	960/77.60	5 Pk./396.50
0.5 to 200µL	51mm	Single tray, 10 × 96	No	Yellow	790200	**14-559-467**	960/62.30	8 Pk./507.50
0.5 to 200µL	51mm	Single tray, 10 × 96	Yes	Yellow	790201	**14-559-468**	960/76.50	8 Pk./541.00
0.5 to 200µL	51mm	Refill tower, 10 × 96	No	Yellow	790202	**14-559-469**	960/38.15	19 Pk./723.00
0.5 to 200µL	51mm	Refill Pack, 15 × 96	Yes	Yellow	790203	**14-559-470**	1440/86.70	4 Pk./351.00
0.5 to 200µL	51mm	Bulk in box, 1000	No	Yellow	790204	**14-559-471**	1000/33.00	16 Pk./512.00
5 to 350µL	54mm	Single tray, 10 × 96	No	Orange	790350	**14-559-472**	960/66.30	8 Pk./541.00
5 to 350µL	54mm	Single tray, 10 × 96	Yes	Orange	790351	**14-559-473**	960/86.70	8 Pk./702.00
5 to 350µL	54mm	Refill tower, 10 × 96	No	Orange	790352	**14-559-474**	960/44.30	19 Pk./853.50
5 to 350µL	54mm	Refill Pack, 15 × 96	Yes	Orange	790353	**14-559-475**	1440/83.00	4 Pk./332.00
5 to 350µL	54mm	Bulk in box, 1000	No	Orange	790354	**14-559-476**	1000/38.15	16 Pk./609.00
10 to 1000µL	71.5mm	Single tray, 10 × 96	No	Blue	791000	**14-559-477**	960/62.30	4 Pk./254.00
10 to 1000µL	71.5mm	Single tray, 10 × 96	Yes	Blue	791001	**14-559-478**	960/79.60	4 Pk./325.50
10 to 1000µL	71.5mm	Refill Pack, 10 × 96	No	Blue	791002	**14-559-479**	960/38.15	4 Pk./152.20
10 to 1000µL	71.5mm	Refill Pack, 10 × 96	Yes	Blue	791003	**14-559-480**	960/91.50	4 Pk./366.00
10 to 1000µL	71.5mm	Bulk in box, 1000	No	Blue	791004	**14-559-481**	1000/40.20	8 Pk./321.50

Contd. on the next page.

LabReporter
QUARTERLY MAGAZINE

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ Biohit™ Optifit Pipet Tips, Contd.

Volume	Length	Packaging	Sterile	Color Code	Mfr. No.	Cat. No.	Pack of	Case of
10 to 1000µL	71.5mm	Bulk in box, 400	No	Blue	791005	**14-559-482**	400/17.00	16 Pk./264.00
10 to 1000µL	68.5mm	Single tray, 10 × 96	No	Blue	791020	**14-559-483**	960/66.30	4 Pk./270.50
10 to 1000µL	68.5mm	Single tray, 10 × 96	Yes	Blue	791021	**14-559-484**	960/84.70	4 Pk./351.00
10 to 1000µL	68.5mm	Bulk in box, 1000	No	Blue	791024	**14-559-485**	1000/48.00	----
50 to 1200µL	71.5mm	Single tray, 10 × 96	No	Purple	791200	**14-559-486**	960/72.50	4 Pk./296.00
50 to 1200µL	71.5mm	Single tray, 10 × 96	Yes	Purple	791201	**14-559-487**	960/98.00	4 Pk./392.00
50 to 1200µL	71.5mm	Refill Pack, 10 × 96	No	Purple	791202	**14-559-488**	960/49.45	4 Pk./198.70
50 to 1200µL	71.5mm	Refill Pack, 10 × 96	Yes	Purple	791203	**14-559-489**	960/110.00	4 Pk./440.00
50 to 1200µL	71.5mm	Bulk in box, 1000	No	Purple	791204	**14-559-490**	1000/51.00	8 Pk./414.50
50 to 1200µL	90mm	Single tray, 10 × 96	No	Purple	791210	**14-559-491**	960/86.70	4 Pk./351.00
50 to 1200µL	90mm	Single tray, 10 × 96	Yes	Purple	791211	**14-559-492**	960/115.00	4 Pk./460.00
50 to 1200µL	90mm	Refill Pack, 10 × 96	No	Purple	791212	**14-559-493**	960/106.60	4 Pk./440.00
50 to 1200µL	90mm	Refill Pack, 10 × 96	Yes	Purple	791213	**14-559-494**	960/126.90	4 Pk./533.00
100 to 5000µL	150mm	Single tray, 50	No	Green	780304	**14-559-495**	500/151.10	----
100 to 5000µL	150mm	Single tray, 50	Yes	Green	780305	**14-559-496**	500/192.00	----
100 to 5000µL	150mm	Bulk in box, 100	No	Green	780300	**14-559-497**	100/26.80	16 Pk./366.50
100 to 5000µL	150mm	Bulk in carton, 1000	No	Green	780308	**14-559-498**	1000/150.10	----
0.5 to 10mL	242mm	Bulk in box, 100	No	----	780310	**14-559-499**	100/53.10	8 Pk./431.50
1 to 10mL	161mm	Bulk in box, 250	No	Red	780315	**14-559-500**	250/106.60	8 Pk./862.50
1 to 10mL	155mm	Bulk in box, 250	No	Red	LH-780316	**14-557-792**	250/000.00	----
ValuePak Refills								
0.1 to 10µL	----	ValuePak, Refill Towers, 10 × 96/tower	----	----	790012MAX	**14-559-501**	960/420.00	----
0.5 to 200µL	----	ValuePak, Refill Towers, 10 × 96/tower	----	----	790202MAX	**14-559-502**	960/360.00	----
0.5 to 350µL	----	ValuePak, Refill Towers, 10 × 96/tower	----	----	790352MAX	**14-559-503**	960/396.50	----
10 to 1000µL	----	ValuePak, Refill Tip Packs, 10 × 96	----	----	791002MAX	**14-559-504**	960/370.00	----
5 to 1200µL	----	ValuePak, Refill Tip Packs, 10 × 96	----	----	791202MAX	**14-559-505**	960/465.00	----

nl su
new lab start-up program

FROM EMPTY SHELVES TO A FULLY FUNCTIONING LAB

Let the Fisher Scientific New Lab Start-Up Program work for you as an effective, economical way to obtain special time- and money-saving offers on the supplies you need.
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Eppendorf™ epTIPS™

Reliable, reproducible, high-precision pipetting for a wide variety of applications

Pipet Tips

- Drop contour design
- Finely tapered and extended; ideal for small-volume pipetting
- Fine graduations make it easy to check volume
- Soft, flexible tip cone provides better seal to pipetter
- Manufactured under strict quality standards in ISO™-9001-certified production process
- Available in Eppendorf Quality (for standard laboratory use) and Sterile (for all tissue culture and microbiology applications)

Pipetter Compatibility
All Eppendorf pipetters, plus universal fit for most other research grade pipetters

epTIPS Sterile

For all tissue culture and microbiology-related applications

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
2–200µL	Indiv. Wrapped	022492209	**05-403-81**	1000/161.19
50–1000µL	Indiv. Wrapped	022492225	**05-403-82**	1000/161.19
0.1–20µL	Racks, 10 × 96	022492250	**05-403-110**	960/135.74
2–200µL	Racks, 10 × 96	022492270	**05-403-111**	960/106.56
20–300µL	Racks, 10 × 96	022492284	**05-403-112**	960/106.56
50–1000µL	Racks, 10 × 96	022492292	**05-403-113**	960/116.52
50–1250µL	Racks, 10 × 96	022492306	**05-403-114**	960/116.52
100–5000µL	Racks, 5 × 24	022492314	**05-403-115**	120/116.49

Nonsterile

Pipet tips are not shown to scale.

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
0.1–10µL	Rack, 10 × 96	022491903	**05-403-63**	960/108.80
0.1–10µL	Refill Trays, 10 × 96	022491504	**05-403-38**	960/93.48
0.1–10µL	Box of 96	022491300	**05-403-21**	96/42.54
0.1–10µL	Bulk, 2 bags of 500	022492004	**05-403-54**	1000/76.34
0.1–10µL	Set, 5 × 96	022491407	**05-403-30**	480/75.01
0.1–20µL	Rack, 10 × 96	022491911	**05-403-64**	960/108.80
0.1–20µL	Refill Trays, 10 × 96	022491512	**05-403-39**	960/93.48
0.1–20µL	Box of 96	022491318	**05-403-22**	96/42.54
0.1–20µL	Bulk, 2 bags of 500	022492012	**05-403-55**	1000/76.34
0.1–20µL	Set, 5 × 96	022491415	**05-403-31**	480/75.01
0.5–20µL, long	Rack, 10 × 96	022491920	**05-403-65**	960/108.80
0.5–20µL, long	Refill Trays, 10 × 96	022491521	**05-403-40**	960/93.48
0.5–20µL, long	Box of 96	022491326	**05-403-23**	96/42.54
0.5–20µL, long	Bulk, 2 bags of 500	022492021	**05-403-56**	1000/76.34
0.5–20µL, long	Set, 5 × 96	022491423	**05-403-32**	480/75.01
2–200µL	Rack, 10 × 96	022491938	**05-403-66**	960/84.86
2–200µL	Refill Trays, 10 × 96	022491539	**05-403-41**	960/71.65
2–200µL	Box of 96	022491334	**05-403-24**	96/42.54
2–200µL	Bulk, 2 bags of 500	022492039	**05-403-57**	1000/61.02
2–200µL	Set, 5 × 96	022491431	**05-403-33**	480/61.58
20–300µL	Rack, 10 × 96	022491946	**05-403-67**	960/85.43
20–300µL	Refill Trays, 10 × 96	022491547	**05-403-42**	960/71.65
20–300µL	Box of 96	022491342	**05-403-25**	96/42.54
20–300µL	Bulk, 2 bags of 500	022492047	**05-403-58**	1000/61.02
20–300µL	Set, 5 × 96	022491440	**05-403-34**	480/61.58
50–1000µL	Rack, 10 × 96	022491954	**05-403-68**	960/91.12
50–1000µL	Refill Trays, 10 × 96	022491555	**05-403-43**	960/79.83
50–1000µL	Box of 96	022491351	**05-403-26**	96/42.54
50–1000µL	Bulk, 2 bags of 500	022492055	**05-403-59**	1000/65.49
50–1000µL	Set, 5 × 96	022491458	**05-403-35**	480/64.38
50–1250µL	Rack, 10 × 96	022491962	**05-403-69**	960/91.12
50–1250µL	Refill Trays, 10 × 96	022491563	**05-403-44**	960/79.83
50–1250µL	Box of 96	022491369	**05-403-27**	96/42.54
50–1250µL	Bulk, 2 bags of 500	022492063	**05-403-60**	1000/65.49
50–1250µL	Set, 5 × 96	022491466	**05-403-36**	480/64.38
500–2500µL	Rack, 5 × 48	022491971	**05-403-70**	240/47.59
500–2500µL	Refill Trays, 10 x 48	022491571	**05-403-45**	480/79.83
500–2500µL	Box of 48	022491377	**05-403-28**	48/42.54
500–2500µL	Bulk, 5 bags of 100	022492071	**05-403-61**	500/76.34
500–2500µL	Set, 5 × 48	022491474	**05-403-37**	240/75.00
100–5000µL	Rack, 5 × 24	022491989	**05-403-71**	120/53.72
100–5000µL	Box of 24	022491385	**05-403-29**	24/42.54
100–5000µL	Bulk, 5 bags of 100	022492080	**05-403-62**	500/105.23
1–10mL	Bulk, 2 bags of 100	022492098	**05-403-116**	200/48.71
1–10mL	Rack, 5 × 24	022491997	**05-403-117**	120/77.24
1–10mL, Long	Bulk, 2 bags of 100	022492101	**05-403-119**	200/66.61

05-403-54

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05-403-116

05-403-119

Fisher Scientific

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Prices subject to change.

Eppendorf™ Biopur™ Racks and Singles

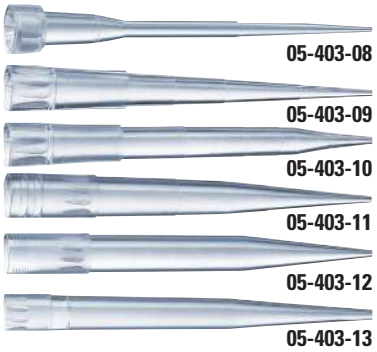
For the most stringent laboratory requirements

- Sterile; RNase-, DNA-, ATP- and pyrogen-free
- Drop contour design provide better tip sealing
- Finely tapered and extended; ideal for small-volume pipetting
- Fine graduations make it easy to check volume
- Soft, flexible tip cone provides better seal to pipetter
- Manufactured under strict quality standards in ISO-9001-certified production process
- Available in racks or individually wrapped

05-403 Series

Pipetter Compatibility
All Eppendorf pipetters, plus universal fit for research-grade pipetters

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
0.1–20µL	Racks, 5 × 96	022491067	**05-403-08**	480/108.80
0.1–20µL	Indiv. wrapped, 100 pcs.	022491130	**05-403-05**	100/35.82
2–200µL	Racks, 5 × 96	022491083	**05-403-09**	480/99.63
2–200µL	Indiv. wrapped, 100 pcs.	022491148	**05-403-06**	100/30.22
20–300µL	Racks, 5 × 96	022491091	**05-403-10**	480/101.88
50–1000µL	Racks, 5 × 96	022491105	**05-403-11**	480/107.69
50–1000µL	Indiv. wrapped, 100 pcs.	022491156	**05-403-07**	100/30.80
50–1250µL	Racks, 5 × 96	022491113	**05-403-12**	480/107.69
500–2000µL	Racks, 5 × 48	022491121	**05-403-13**	240/107.69



Pipet tips are not shown to scale.

Eppendorf™ epTIPS™ PCR Clean

For all molecular biology applications

Features

- Free of human DNA-, DNase-, RNase- and PCR inhibitor-free
- Drop contour design at tip provides better tip sealing
- Finely tapered and extended; ideal for small-volume pipetting
- Fine graduations make it easy to check volume
- Soft, flexible tip cone provides better seal to pipetter
- Manufactured under strict quality standards in ISO-9001-certified production process

Packaging

- Refill trays offer simple, contamination-free handling
- Trays are color coded for easy volume identification
- Environmentally friendly — all components of refills completely recyclable
- Refill trays can be autoclaved intact and stored for future use

05-403 Series

Pipetter Compatibility
All Eppendorf pipetters, plus universal fit for research-grade pipetters

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
0.1–10µL	Rack, 10 × 96	022491806	**05-403-72**	960/135.80
0.1–10µL	Refill Trays, 10 × 96	022491709	**05-403-46**	960/108.86
0.1–20µL	Rack, 10 × 96	022491814	**05-403-73**	960/135.80
0.1–20µL	Refill Trays, 10 × 96	022491717	**05-403-47**	960/108.86
0.5–20µL, long	Rack, 10 × 96	022491822	**05-403-74**	960/135.80
0.5–20µL, long	Refill Trays, 10 x 96	022491725	**05-403-48**	960/108.86
2–200µL	Rack, 10 × 96	022491831	**05-403-75**	960/106.97
2–200µL	Refill Trays, 10 × 96	022491733	**05-403-49**	960/86.37
20–300µL	Rack, 10 × 96	022491849	**05-403-76**	960/107.52
20–300µL	Refill Trays, 10 × 96	022491741	**05-403-50**	960/88.87
50–1000µL	Rack, 10 × 96	022491857	**05-403-77**	960/115.44
50–1000µL	Refill Trays, 10 × 96	022491750	**05-403-51**	960/94.51
50–1250µL	Rack, 10 × 96	022491865	**05-403-78**	960/118.61
50–1250µL	Refill Trays, 10 × 96	022491768	**05-403-52**	960/94.51
500–2500µL	Rack, 10 × 48	022491873	**05-403-79**	480/59.41
500–2500µL	Refill Trays, 10 × 48	022491776	**05-403-53**	480/94.51
100–5000µL	Rack, 5 × 24	022491881	**05-403-80**	120/68.48

Pipet tips are not shown to scale.

Filtered Universal

Fisherbrand® SureOne™ Aerosol Barrier Pipet Tips

Choose from a comprehensive line of pipet tips for demanding liquid-handling applications

- Engineered for increased accuracy and are compatible with single-channel, multichannel, and electronic pipetters
- DNase-/RNase-free; sterile tips are also pyrogen-free
- Filter eliminates aerosol cross-contamination without sealing or trapping samples
- Tips allow for noncontaminated sample recovery
- Not autoclavable

Pipetter Compatibility
Universal fit for research grade pipetters

Volume	Length	Packaging †	Color	Cat. No.	Pack of	Case of
Micropoint Tip, graduated at 2uL						
0.1–10µL	1.75" (44.45mm)	HRS, 10 × 96	Natural	**02-707-439**	960/136.60	5 Pk./615.00
Micropoint Tip, graduated at 2.5uL, extended length						
0.1–10µL	1.75" (44.45mm)	HRS, 10 × 96	Natural	**02-707-442**	960/130.40	5 Pk./603.00
Micropoint Tip, Eppendorf™ style						
0.1–10µL	1.75" (44.45mm)	HRS, 10 × 96	Natural	**02-707-456**	960/133.30	5 Pk./615.00
2–20µL	2" (50.8mm)	HRS, 10 × 96	Natural	**02-707-435**	960/133.30	5 Pk./615.00
Beveled Tip						
2–20µL	2" (50.8mm)	HRS, 10 × 96	Natural	**02-707-432**	960/130.10	5 Pk./599.50
10–100µL	2" (50.8mm)	HRS, 10 × 96	Natural	**02-707-431**	960/130.40	5 Pk./603.00
Micropoint Tip, graduated at 10, 50, 100uL						
20–200µL	2" (50.8mm)	HRS, 10 × 96	Natural	**02-707-430**	960/133.30	5 Pk./615.00
Micropoint Tip, graduated at 100, 200, 500, 1000uL						
100–1000µL	2" (50.8mm)	HRS, 10 × 96	Natural	**02-707-404**	960/145.00	5 Pk./670.00

† Packaging Code, BP: Bulk Pack; HR: Hinged Rack; HRS: Hinged Rack, Sterile: RI: Rack Inserts; RD: Reload Decks (2 stacks of 5 preloaded decks of 96).

02-707-439

02-707-442

02-707-456

02-707-435

02-707-432

02-707-431

02-707-430

02-707-404

Pipet tips are not shown to scale.

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Fisherbrand® Aerosol-Barrier Tips

Prevent cross-contamination by using superior aerosol-barrier tips

- Unique small micron filter prevents aerosol contamination with no obstruction to airflow
- Use aerosol barrier tips to ensure result integrity
- Bulk packs are autoclavable; sterile products are not autoclavable
- Natural color
- Certified by independent laboratory – Non Sterile: RNase-, DNase-, DNA-, Bioburden-, PCR Inhibitor-, and Pyrogen-Free

Pipetter Compatibility
Universal fit for research-grade pipetters

Volume	Length	Packaging†	Cat. No.	Pack of	Case of
0.2–10µL	1.81" (46mm), Ultra-Micro	LRS, 10 × 96	**02-707-27**	960/170.00	5 Pk./759.00
0.2–10µL	1.25" (35.56mm), Micro-P2/P1	HRS, 10 × 96	**02-707-30**	960/169.90	5 Pk./759.00
5µL	1.25" (35.56mm), Micro Nano	BP	**02-707-150‡**	1000/186.20	5 Pk./840.50
5µL	1.25" (35.56mm), Micro Nano	LRS, 10 × 96	**02-707-152‡**	960/205.50	5 Pk./936.50
10µL	1.69" (43mm), Reach	BP	**02-707-153**	1000/155.50	5 Pk./684.50
10µL	1.69" (43mm), Reach	HRS, 10 × 96	**02-707-155**	960/206.00	5 Pk./907.00
30µL	2" (50.8mm)	HRS, 10 × 96	**02-707-33**	960/163.40	5 Pk./729.50
50µL	2" (50.8mm)	HRS, 10 × 96	**02-707-36**	960/170.90	5 Pk./762.50
100µL	1.86" (47mm)	BP	**02-707-159**	1000/156.30	5 Pk./684.50
100µL	1.86" (47mm)	LRS, 10 × 96	**02-707-161**	960/344.25	5 Pk./1523.88
100µL	2" (50.8mm)	HRS, 10 × 96	**02-707-39**	960/175.40	5 Pk./783.00
150µL	2" (50.8mm)	HRS, 10 × 96	**02-707-116**	960/168.90	5 Pk./763.50
200µL	2" (50.8mm)	HRS, 10 × 96	**02-707-42**	960/167.40	5 Pk./735.00
200µL	2.312" (59mm), Elongated	BP	**02-707-66**	1000/136.50	5 Pk./615.50
200µL	2.312" (59mm), Elongated	LRS, 10 × 96	**02-707-68**	960/169.80	5 Pk./751.50
200µL	3.5" (89mm), Extended	LR, 8 × 204	**02-707-77**	1632/310.50	3 Pk./845.00
200µL	3.5" (89mm)	LRS, 10 × 100	**02-707-80**	800/169.30	5 Pk./776.00
200µL Large Orifice	2" (50.8mm), Large Orifice	LRS, 10 × 96	**02-707-74**	960/176.70	5 Pk./788.00
300µL	2.312" (59mm)	LRS, 10 × 96	**02-707-71**	960/44.54	5 Pk./222.72
1000µL in 1300µL Tip	3.125" (79mm)	LRS, 10 × 100	**02-707-51**	1000/178.30	5 Pk./811.00
1250µL	3.125" (79mm)	LRS, 10 × 96	**02-707-167**	960/210.50	5 Pk./953.50
5000µL	4.625" (117mm)	BPS	**02-707-168**	250/55.70	10 Pk./457.50

02-707-27

02-707-30

02-707-150

02-707-153

02-707-33

02-707-36

02-707-159

02-707-39

02-707-116

02-707-42

02-707-66

02-707-74

02-707-71

02-707-51

02-707-168

†Packaging Code, BP: Bulk Pack; HR: Hinged Rack; HRS: Hinged Rack, Sterile
‡With 2.5µL reference mark

Contd. on the next page.

Fisherbrand® Aerosol-Barrier Tips, Contd.

Volume	Tip Style	Packaging†	Cat. No.	Pack of	Case of
Filter Tips					
10µL	----	HRS, 10 × 96	**02-717-158**	960/95.80	5 Pk./420.50
10µL[1]	----	HRS, 10 × 100	**02-717-159**	1000/95.90	5 Pk./429.50
10µL	Micropoint	HRS, 10 × 96	**02-717-157**	960/95.80	5 Pk./420.50
20µL[1]	----	HRS, 10 × 100	**02-717-160**	1000/95.90	5 Pk./429.50
20µL	Beveled, Graduated	HRS, 10 × 96	**02-717-161**	960/95.80	5 Pk./420.50
50µL	Beveled, Graduated	HRS, 10 × 96	**02-717-162**	960/95.80	5 Pk./425.50
100µL	Beveled, Graduated	HRS, 10 × 96	**02-717-163**	960/95.80	5 Pk./428.00
200µL	Beveled, Graduated	HRS, 10 × 96	**02-717-165**	960/95.80	5 Pk./420.50
1000µL, Long	----	HRS, 10 × 100	**02-717-166**	1000/114.00	5 Pk./513.00

†Packaging Code: BP=Bulk Pack; HR=Hinged Rack; HRS=Hinged Rack, Sterile; SR=Stack Rack; RI=Rack Insert
[1]Designed to fit Eppendorf™ style pipetters.
[2]Designed to fit Titertek™ pipetters.

Pipet tips are not shown to scale.

Fisherbrand® SureOne™ Filter Tip Reload Pipet Tips

Sterile and free of RNase, DNase, ATP, pyrogen, bioburden, PCR inhibitors, endotoxin and DNA

Packaging Features

- Offset wells allow filter tips to stack
- Rigid inserts are 96-well format ensuring secure tip seal
- Sterile packaging with outer sleeve protects tips from contamination while refilling inserts
- Environmentally friendly reload packaging reduces plastic waste and saves space
- Blister sleeve guide rails align tip inserts for smooth and reliable transfer into the rack

Rack Features

- Flush Fit Inserts sit flush with rack, allowing easy multichannel pipetting
- Notched clasp props lid open for autoclave venting
- Sure Stack lid rim prevents racks from sliding around when stacked and carted around a lab
- Safe-Lock latch allows for one-handed open and closing ability and won't pop open when dropped
- Sure-snap design securely holds insert in place
- Flip-lid can be either a hinged or lift-off lid

Filter Tip Reload family

Insert Features

- Inserts are easy to place onto and remove from rack
- Lot traceable—all inserts contain the Fisherbrand part number, tip volume, lot number
- Indented insert holes inhibit tip movement, stabilizing them for multichannel work
- Contact Clip helps prevent unnecessary contact with the tips while clipping in inserts

Tip Volume	Tip Style	Type	Packaging	Cat. No.	Pack of	Case of
0.1 to 5µL	Universal Fit	Micropoint, Nano, Graduated	Filter Sterile Reload	**02-707-472**	960/116.50	5 Pk./537.00
0.1 to 10µL	Universal Fit	Micropoint, Graduated	Filter Sterile Reload	**02-707-473**	960/116.50	5 Pk./537.00
0.1 to 10µL	Universal Fit	Micropoint, Graduated, X-Length	Filter Sterile Reload	**02-707-474**	960/116.50	5 Pk./537.00
0.1 to 20µL	Universal Fit	Micropoint, Graduated, X-Length	Filter Sterile Reload	**02-707-475**	960/116.50	5 Pk./537.00
2 to 20µL	Universal Fit	Beveled	Filter Sterile Reload	**02-707-476**	960/116.70	5 Pk./524.00
10 to 100µL	Universal Fit	Beveled	Filter Sterile Reload	**02-707-477**	960/116.50	5 Pk./537.00
20 to 200µL	Universal Fit	Micropoint, Graduated	Filter Sterile Reload	**02-707-478**	960/116.50	5 Pk./537.00
30 to 300µL	Universal Fit	Micropoint Graduated	Filter Sterile Reload	**02-707-479**	960/116.50	5 Pk./537.00
100 to 1000µL	Universal Fit	Micropoint	Filter Sterile Reload	**02-707-480**	560/101.60	5 Pk./456.00

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Thermo Scientific™ ART™ Barrier Hinged Rack Pipet Tips

Accurate and consistent performance

The Thermo Scientific ART portfolio is now more complete, making it easier than ever to find a tip to fit virtually any pipet or application in your laboratory.

- Ultimate protection — ART barrier tips provide 100% security against aerosols and liquid contamination
- One-handed access — Racks offer quick and easy access to pipette tips, saving valuable time
- Secure Storage — Front latch closes and locks, ensuring safe and secure storage throughout
- Versatility — Simply unhinge, turn and realign the cover — now you have a traditional lift-off

CERTIFICATIONS:
Nonsterile products are certified to be free of RNase, DNase, DNA, ATP, Endotoxin, Pyrogen and PCR Inhibitors

Sterile products are certified to be free of RNase, DNase, DNA, ATP, Bioburden, Endotoxin, Pyrogen and PCR Inhibitors

ART Barrier Hinged Rack Pipet Tips

Model	Description	Volume	Sterile	Length	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
ART Barrier Pipette tips 10	MicroPoint, hinged rack	10µL	Yes	1.23" (31.3mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2139-HR	**02-682-264**	960/161.30	4800/747.30
ART Barrier Pipette tips 10	MicroPoint, reload insert, low retention	10µL	Yes	1.23" (31.3mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2139-05-HR	**02-682-265**	960/172.10	4800/796.50
ART Barrier Pipette tips 10 REACH	MicroPoint, extended length, reload insert	10µL	Yes	1.71" (43.3mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2140-HR	**02-682-258**	960/161.30	4800/747.30
ART Barrier Pipette tips 10 REACH	MicroPoint, extended length, reload insert, low retention	10µL	Yes	1.71" (43.3mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2140-05-HR	**02-682-259**	960/174.60	4800/808.50
ART Barrier Pipette tips 20E	MicroPoint, reload insert	20µL	Yes	1.8" (45.7mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2149E-HR	**02-682-266**	960/156.60	4800/725.00
ART Barrier Pipette tips 20E	MicroPoint, hinged racked, low retention	20µL	Yes	1.8" (45.7mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2149E-05-HR	**02-682-267**	960/172.20	4800/797.00
ART Barrier Pipette tips 20P	MicroPoint, hinged racked	20µL	Yes	2" (50.7mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2149P-HR	**02-682-260**	960/161.30	4800/747.00
ART Barrier Pipette tips 20P	MicroPoint, hinged racked, low retention	20µL	Yes	2" (50.7mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2149P-05-HR	**02-682-261**	960/178.50	4800/826.50
ART Barrier Pipette tips 100	MicroPoint, hinged racked	100µL	Yes	2.32" (58.8mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2065-HR	**02-682-257**	960/161.30	4800/747.00
ART Barrier Pipette tips 100E	MicroPoint, hinged racked	100µL	Yes	2" (50.7mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2065E-HR	**02-682-262**	960/161.30	4800/747.00
ART Barrier Pipette tips 100E	MicroPoint, hinged racked, low retention	100µL	Yes	2" (50.7mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2065E-05-HR	**02-682-263**	960/181.00	4800/837.50
ART Barrier Pipette tips 200	ART 200 Barrier Tip	200µL	Yes	2.32" (58.8mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2069-HR	**02-682-255**	960/160.70	4800/744.00
ART Barrier Pipette tips 200	MicroPoint, hinged racked, low retention	200µL	Yes	2.32" (58.8mm)	Hinged racked, 96 tips/ tray, 10 trays/pack	2069-05-HR	**02-682-256**	960/172.20	4800/797.00
ART Barrier Pipette tips 1000XL	Hinged racked	1000µL	Yes	3.5" (88.9mm)	Hinged racked, 96 tips/ tray, 8 trays/pack	2179-HR	**02-682-268**	768/177.50	3072/657.50
ART Barrier Pipette tips 1000L	Hinged racked, low retention	1000µL	Yes	3.5" (88.9mm)	Hinged racked, 96 tips/ tray, 8 trays/pack	2179-05-HR	**02-682-269**	768/216.00	3072/803.00
ART Barrier Pipette tips Essentials Kit	Hinged Racks	N.A.	N.A.	N/A (N/A)	Hinged Racks, 12/pack, 48/case	2921-HR	**02-682-280**	12/132.10	48/489.50

THINK GREEN

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

Thermo Scientific™ ART™ Barrier Reload System

Accuracy and consistent performace without compromising protection

The Thermo Scientific™ ART™ portfolio is now more complete, making it easier than ever to find a tip to fit virtually any pipette, or application in your laboratory.

- Ultimate protection — ART barrier tips provide 100% security against aerosols and liquid contamination
- Space Saving — Stackable barrier tip packaging allows for tips to pass through offset holes in lower insert
- Easy to use — Blister sleeve guide rails align tip inserts for smooth transfer into the rack
- Sterile Packaging — The outer sleeve protects tips from exterior contamination while refilling inserts
- Environmentally-friendly — The tip packaging option reduces plastic waste
- Multichannel-friendly — The rigid insert design provides reliable tip loading
- Traceable — Lot number and description are printed on every insert

CERTIFICATIONS:
Nonsterile products are certified to be free of RNase, DNase, DNA, ATP, Endotoxin, Pyrogen and PCR Inhibitors

Sterile products are certified to be free of RNase, DNase, DNA, ATP, Bioburden, Endotoxin, Pyrogen and PCR Inhibitors

Description	Volume	Sterile	Length	Packaging	Mfr. No.	Cat. No.	Pack of
ART 10 Barrier Tip	10µL	Yes	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	2139-RT	**13-811-100**	960/128.40
ART 10 Barrier Tip	10µL	Yes	1.2 in. (31.3mm)	96 Tips/Tray, 10 Trays/Pack	2139-05-RT	**13-811-101**	960/139.60
ART 20 Barrier Tip	20µL	Yes	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	2149P-RT	**13-811-114**	960/128.40
ART 20 Barrier Tip	20µL	Yes	2.0 in. (50.7mm)	96 Tips/Tray, 10 Trays/Pack	2149P-05-RT	**13-811-115**	960/141.80
ART 200 Barrier Tip	200µL	Yes	2.3 in. (58.8mm)	96 Tips/Tray, 10 Trays/Pack	2069-RT	**13-811-124**	960/128.40
ART 200 Barrier Tip	200µL	Yes	2.3 in. (58.8mm)	96 Tips/Tray, 10 Trays/Pack	2069-05-RT	**13-811-125**	960/141.90
ART 300 Barrier Tip	300µL	Yes	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	2070-RT	**13-811-141**	960/125.40
ART 300 Barrier Tip	300µL	Yes	2.3 in. (58.4mm)	96 Tips/Tray, 10 Trays/Pack	2070-05-RT	**13-811-143**	960/138.60
ART 1000 Barrier Tip	1000µL	Yes	3.5 in. (88.9mm)	56 Tips/Tray, 10 Trays/Pack	2179-RT	**13-811-154**	560/96.90
ART 1000 Barrier Tip	1000µL	Yes	3.5 in. (88.9mm)	56 Tips/Tray, 10 Trays/Pack	2179-05-RT	**13-811-155**	560/105.60

Thermo Scientific™ ART™ Barrier Ultra Micro Tips with MicroPoint™ Design

Presterilized and precision-molded ultra micro tips with the patented ART self-sealing barrier

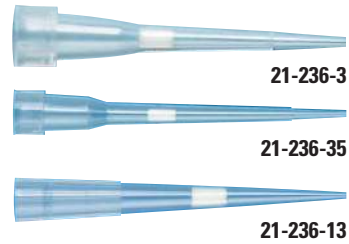
- Guaranteed to prevent carryover contamination during aspiration and delivery of samples
- Certified RNase-, DNase-, and pyrogen-free
- Ideal for low-volume applications in genetic studies, forensics, PCR and radioisotope sampling

Tip Types:

- The ART 10 and 10F have a 2µL reference mark and are perfect for pipetting low volumes
- The extended tip length of the ART 10 REACH™ prevents contamination of samples, tubes, and pipetters
- The ART 20E is an ultra-micro tip design for Eppendorf™ and Nichiryo/BenchMate™ pipetters
- The ART 20P has a 10µL reference mark and is well suited for low volumes

NOTES:
Standard ART tips are also available in Bulk and Individually Wrapped packaging.
Please see **www.fishersci.com** for a full list of available products.

ART Tip	Volume	Packaging	Mfr. No.	Cat. No.	Pack of 960	Case of 5 Pk.
Standard						
10	10µL	Racked, 10 × 96	2139	**21-236-3**	164.40	711.00
20E	10µL	Racked, 10 × 96	2149E	**21-236-5**	164.40	711.00
10 Reach	10µL	Racked, 10 × 96	2140	**21-236-35**	165.80	709.50
Pipetter Specific						
20P	0.5–20µL Ultra Micro	Racked, 10 × 96	2149P	**21-236-4**	164.40	711.00
10F	10µL	Racked, 10 × 96	2139F	**21-236-13**	164.40	711.00



Pipet tips are not shown to scale.

Thermo Scientific™ Finntip™ Filtered Pipet Tips

Sterile, disposable tips of different volumes available to fit 0.2µL to 10mL pipets and protect both pipet and the sample from contamination

21-377-171

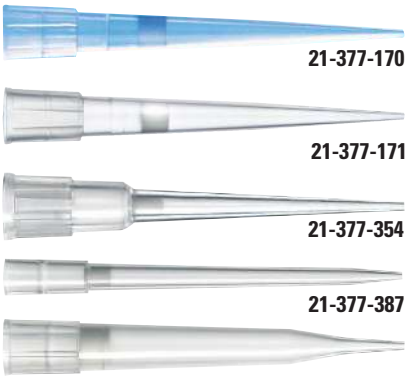
The Thermo Scientific Finntip Filtered Pipet Tips are available in racks with a wide volume range 0.2µL- 10mL.

- Fit most common 0.2µL to 10mL pipetters
- Ideal for PCR amplification applications and for pipetting radioactive, infectious and aerosol-emitting samples
- Inert and nonsealing polyethylene filter
- Tips come vacuum sealed in irradiation-sterilized hinged tip racks
- Not autoclavable
- Certified to be free from DNA, DNase, RNase™ and endotoxin

CERTIFICATIONS:
Manufactured according to ISO™ 9001, ISO 14001 and ISO 13485 (CE/IVD-certified)

Pipetter compatability
Finnpipette™ pipetters and most universal fit pipetters

Volume	Length	Packaging Type	Mfr. No.	Cat. No.	Case of
0.2–10µL	1" (3.2cm)	Rack, 10 × 96	94052-000	**21-377-354**	960/217.00
0.2–20µL	1.88" (3.3cm)	Rack, 10 × 384	94052-020	**21-378-01**	3840/1198.00
0.2–50µL	1.88" micro (4.8cm)	Rack, 10 × 384	94052 060	**21-377-387**	3840/1198.00
0.5–10µL	1.25" (5.2cm)	Rack, 10 × 96	94052-100	**21-377-169**	960/158.30
0.5–20µL	1.88" (5.2cm)	Rack, 10 × 96	94052-150	**21-377-353**	960/161.50
0.5–30µL	2" (5.2cm)	Rack, 10 × 96	94052-160	**14-387-75**	960/164.86
0.5–100µL	2" (5.2cm)	Rack, 10 × 96	94052-200	**21-377-170**	960/161.50
5–100µL	3" (7.8cm)	Rack, 10 × 96	94052-310	**14-386-54**	960/286.50
0.5–200µL	2" (5.2cm)	Rack, 10 × 96	94052-300	**21-377-171**	960/161.50
5–200µL	3" (7.8cm)	Rack, 10 × 96	94052-320	**21-377-804**	960/310.50
5–300µL	2" (5.2cm)	Rack, 10 × 96	94052-350	**21-377-307**	960/161.70
100–1000µL	2.75" (7.1cm)	Rack, 10 × 96	94052-410	**21-377-604**	960/161.50
100–1000µL	3.88" (10.5cm)	Rack, 5 × 96	94052-430	**21-377-605**	480/209.50
150–1500µL	2.75" (6.99cm)	Rack, 10 × 96	94052-450	**21-377-356**	960/226.50
0–5mL	5.75" (14.7cm)	Rack, 5 × 54	94052-550	**21-377-512**	270/175.70
1–10mL	5.88" (15.0cm)	Rack, 5 × 24	94052-600	**21-377-357**	120/111.80



Pipet tips are not shown to scale.

Axygen™ GEN3™ Multi-Barrier Pipette Tips

Offers the ultimate in protection against cross contamination using tri-filter technology

14-223-500

Effectively separates liquid from the self-sealing barrier using an additional protective layer of conventional polyethylene filter material.

- Multi-barrier self-sealing filter prevents aerosol or liquid cross contamination
- Proprietary filter design prevents possible PCR inhibition
- Maxymum Recovery™ technology for ultra-low retention and high yield
- Hinged rack for convenience and ease of use
- Pre-sterilized; no need to autoclave
- Maxymum Recovery™ is included as a standard feature on all GEN3 Multi-Barrier Tips
- Ultra-smooth surfaces
- Exclusive molding technology
- Reduced sample loss and saves costly reagents
- Maximizes accuracy and precision

CERTIFICATIONS:
GEN3 multi-barrier tips are certified human gDNA and PCR inhibition free. Certified DNase-/RNase-free and nonpyrogenic.

Volume	Quantity/Rack	Quantity/Unit	Quantity/Case	Mfr. No.	Cat. No.	Pack of 960	Case of 5 Packs
10µL	96	10	5	GEN3-10-L-R-S	**14-223-500**	145.20	683.50
20µL	96	10	5	GEN3-20-L-R-S	**14-223-501**	145.20	683.50
200µL	96	10	5	GEN3-200-L-R-S	**14-223-502**	145.20	683.50
1000µL	100	10	5	GEN3-1000-L-R-S	**14-223-503**	145.20	683.50

Axygen™ Aerosol Barrier Filter Tips

Free of leachable additives

14-222-218

- Filter material prevents passage of aerosols but allows free passage of air
- Maxymum Recovery™ technology provides excellent accuracy and prevents wastage of precious samples
- Wide bore tips are ideal for pipetting viscous materials, genomic DNA or delicate cell cultures
- Presterilized tips are e-beam irradiated to prevent product degradation
- Available in sterile and nonsterile formats
- Volume range: 0.5 to 1250µL
- Color: Clear

ORDERING INFORMATION: Available in bulk or racked formats.

CERTIFICATIONS: Certified RNase-, DNase- and Pyrogen safe.

Tip Type	Pk.aging	Mfr. No.	Cat. No.	Pack of	Case of
0.5 to 10µL					
Microvolume	Bulk	TF-300	**14-222-783**	----	1000/1,092.00
Microvolume	Racked, Presterilized	TF-300-R-S	**14-222-785**	960/129.80	4800/584.50
Microvolume, Maxymum Recovery	Racked, Presterilized	TF-300-L-R-S	**14-222-784**	960/145.30	4800/638.50
Ultra Micro	Bulk	TF-400	**14-222-791**	----	10,000/1,092.00
Ultra Micro	Racked, Presterilized	TF-400-R-S	**14-222-793**	960/129.70	4800/584.00
Ultra Micro, Maxymum Recovery	Racked, Presterilized	TF-400-L-R-S	**14-222-792**	960/145.30	4800/638.50
0.5 to 20µL					
Universal	Bulk	TF-20	**14-222-775**	----	10,000/1,092.00
Universal	Racked, Presterilized	TF-20-R-S	**14-222-782**	960/129.70	4800/584.00
Universal, Maxymum Recovery	Racked, Presterilized	TF-20-L-R-S	**14-222-781**	960/145.30	4800/638.50
Ultra Micro	Racked, Presterilized	TF-420-R-S	**14-222-795**	----	4800/567.00
Ultra Micro, Maxymum Recovery	Racked, Presterilized	TF-420-L-R-S	**14-222-794**	----	4800/638.50
0.5 to 30µL					
Microvolume	Filter, Racked, Presterilized	TF-384-30-R-S	**14-222-790**	----	19,200/7,830.00
Microvolume, Maxymum Recovery	Filter, Racked, Presterilized	TF-384-30-L-R-S	**14-222-789**	----	19,200/7,950.00
0.5 to 50µL					
Universal	Bulk	TF-50	**14-222-796**	----	10,000/1,075.00
Universal	Racked, Presterilized	TF-50-R-S	**14-222-800**	----	4800/584.00
Universal, Maxymum Recovery	Racked, Presterilized	TF-50-L-R-S	**14-222-799**	960/140.00	4800/619.50
1 to 100µL					
Universal	Bulk	TF-100	**14-222-763**	----	10,000/1,074.00
Universal	Racked, Presterilized	TF-100-R-S	**14-222-770**	960/129.70	4800/584.00
Universal, Maxymum Recovery	Racked, Presterilized	TF-100-L-R-S	**14-222-769**	960/145.30	4800/638.50
1 to 150µL					
Universal	Bulk	TF-150	**14-223-385**	----	10,000/1,197.00
Universal	Racked, Presterilized	TF-150-R-S	**14-222-774**	----	4800/566.50
Universal, Maxymum Recovery	Maxymum Recovery, Racked, Presterilized	TF-150-L-R-S	**14-222-773**	----	4800/639.00
1 to 200µL					
Universal	Bulk	TF-200	**14-222-776**	----	10,000/1,096.00
Universal	Racked, Presterilized	TF-200-R-S	**14-222-778**	960/129.70	4800/584.00
Universal, Maxymum Recovery	Racked, Presterilized	TF-200-L-R-S	**14-222-777**	960/145.30	4800/638.50
Wide bore	Racked, Presterilized	TF-205-WB-R-S	**14-222-780**	----	4800/721.50
Wide bore, Maxymum Recovery	Racked, Presterilized	TF-205-WB-L-R-S	**14-222-779**	----	4800/812.50
1 to 300µL					
Universal	Bulk	TF-350	**14-222-786**	----	10,000/1075.00
Universal	Racked, Presterilized	TF-350-R-S	**14-222-788**	----	4800/584.00
Universal, Maxymum Recovery	Racked, Presterilized	TF-350-L-R-S	**14-222-787**	960/145.30	4800/638.50
10 to 500µL					
Universal	Racked, Presterilized	TF-500-R-S	**14-222-798**	----	5000/567.00
Universal, Maxymum Recovery	Racked, Presterilized	TF-500-L-R-S	**14-222-797**	----	5000/620.00
100 to 1000µL					
Universal	Bulk	TF-1000	**14-222-764**	----	5000/569.00
Universal	Racked, Presterilized	TF-1000-R-S	**14-222-766**	1000/129.70	
Universal, Maxymum Recovery	Racked, Presterilized	TF-1000-L-R-S	**14-222-765**	1000/145.30	5000/638.50
Wide bore	Racked, Presterilized	TF-1005-WB-R-S	**14-222-768**	----	5000/720.00
Wide bore, Maxymum Recovery	Racked, Presterilized	TF-1005-WB-L-R-S	**14-222-767**	----	5000/918.50
100 to 1100µL					
Bevelled	Racked, Presterilized	TF-1200-C-R-S	**14-222-772**	----	3456/558.50
Bevelled, Maxymum Recovery	Racked, Presterilized	TF-1200-C-L-R-S	**14-222-771**	----	3456/595.00
15 to 1250µL					
Matrix-style	Racked, Presterilized	MTXF-1250-C-R-S	**14-222-219**	----	3456/832.50
Matrix-style, Maxymum Recovery	Racked, Presterilized	MTXF-1250-C-L-R-S	**14-222-218**	----	3456/945.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Axygen™ GentleFit™ Dual-Shot Filter Pipet Tips

Soft, leakproof seal provides a universal fit

These filter tips are manufactured from two different resins. The thermoplastic elastomer (TPE) top is easy to seal, provides a soft eject, and is colored-coded by volume. The rigid, polypropylene body ensures straightness, affords glass-like clarity and is non-reactive and graduated.

- Versatile; dual-shot technology standardizes most research-grade pipetters
- Available in three sizes: 10, 200 and 1000µL
- Reduced sealing force
- Minimal reciprocal ejection force
- Economical; imposes less wear on pipetters
- Ergonomic design; soft tip requires less pressure to create an optimum seal
- Ideal/multichannel pipetters
- Color-coded top identifies volume
- Presterilized
- Certified to be free from RNase, DNase, and human DNA

14-223-415

Volume	Packaging	Mfr. No.	Cat. No.	Case of 4800
10µL	Racked, 10 x 96; Cs. of 5 Pk.	TLF-10-R-S	**14-223-413**	152.72
200µL	Racked, 10 x 96; Cs. of 5 Pk.	TLF-200-R-S	**14-223-415**	152.72
1000µL	Racked, 8 x 96; Cs. of 5 Pk.	TLF-1000-R-S	**14-223-414**	152.72

Gilson PIPETMAN TiPk.™ Filter Tips

Designed to meet the most stringent demands in various fields and applications such as PCR, molecular biology and cell technology.

- Ensure optimum performance of your PIPETMAN pipets
- Full traceability guaranteed
- Certified free of detectable RNase, DNase, DNA, RNA and Protease
- Gamma ray sterilized

F171203G

Tip Length	Volume Range	Mfr. No.	Cat. No.	Pack of
45mm	0.1 to 10µL	F171203	**F171203G**	960/100.30
30mm	0.1 to 10µL	F171103	**F171103G**	960/100.30
51mm	2 to 30µL	F171303	**F171303G**	960/100.30
51mm	10 to 100µL	F171403	**F171403G**	960/100.30
51mm	20 to 200µL	F171503	**F171503G**	960/100.30
51mm	20 to 300µL	F171603	**F171603G**	960/100.30
51mm	100 to 1000µL	F171703	**F171703G**	960/110.60
66mm	100 to 1200µL	F171803	**F171803G**	960/123.00

Sartorius™ Biohit™ SafetySpace™ Filter Pipet Tips

For contamination-free pipetting

- Polypropylene
- With regular air gap and filter barrier
- Fully autoclavable
- Single tray packaging
- Purity level: RNase, DNase, Pre-endotoxin-free sterilized

14-559-512

Volume Range	Length	Color Code	Mfr. No.	Cat. No.	Pack of	Case of
0.1 to 10µL	46mm	Gray	783201	**14-559-513**	960/160.00	5 Pk./780.00
10 to 500µL	78mm	Blue	783206	**14-559-514**	1000/165.00	5 Pk./815.00
0.1 to 10µL	32mm	Gray	790011F	**14-559-506**	960/147.20	8 Pk./1224.00
0.5 to 20µL	51mm	Yellow	790021F	**14-559-507**	960/147.20	8 Pk./1224.00
2 to 120µL	51mm	Yellow	790101F	**14-559-508**	960/147.20	8 Pk./1224.00
5 to 200µL	52.5mm	Yellow	790201F	**14-559-509**	960/147.20	8 Pk./1224.00
5 to 300µL	52.5mm	Orange	790301F	**14-559-510**	960/147.20	8 Pk./1224.00
5 to 1000µL	78mm	Blue	791001F	**14-559-511**	960/147.20	4 Pk./612.00
5 to 1200µL	90mm	Purple	791211F	**14-559-512**	960/187.80	4 Pk./742.50

Eppendorf™ epTIPS™ Filter Tips

PCR clean and sterile

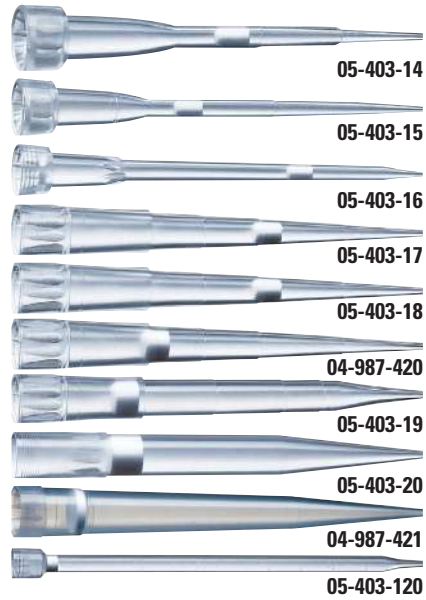
- PCR clean and sterile (free of human DNA, DNase, RNase and PCR inhibitors); pyrogen-free
- Drop contour design with filter
- Finely tapered and extended; ideal for small-volume pipetting
- Fine graduations make it easy to check volume
- Soft, flexible tip cone provides better seal to pipetter
- Tips have integrated filter made of hydrophobic polyethylene and do not contain self-sealing additives
- Sample can be easily recovered, even if filter becomes wet as a result of incorrect pipetting

ORDERING INFORMATION:
Packaged in racks of 96 tips.

CERTIFICATIONS:
Batch-related certificates of purity are available upon request.

Pipetter compatability
Eppendorf pipetters or most other universal fit pipetters

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
0.1–10mL, S	Racks, 10 x 96	022491202	**05-403-14**	960/166.77
0.1–10mL, M	Racks, 10 x 96	022491211	**05-403-15**	960/166.77
0.5–20mL, L	Racks, 10 x 96	022491229	**05-403-16**	960/166.77
2–20mL	Racks, 10 x 96	022491270	**05-403-17**	960/166.77
2–100mL	Racks, 10 x 96	022491237	**05-403-18**	960/161.16
2–200µL	Racks, 10 x 96	022491296	**04-987-420**	960/161.16
20–300µL	Racks, 10 x 96	022491245	**05-403-19**	960/161.16
50–1000mL	Racks, 10 x 96	022491253	**05-403-20**	960/166.77
100–5000µL	Racks, 5 x 24	022491261	**04-987-421**	120/91.78
1-10mL	Indiv. Wrapped, 100	022491288	**05-403-120**	100/77.79



Pipet tips are not shown to scale.

LOOKING FOR MORE...?

Fisher Scientific offers a complete line of BRAND™ pipetter tips, including the BIO-CERT™ line for your highest-purity applications. BRAND pipetter tips are made from the highest quality polypropylene and are DNA-, RNase-, ATP- and endotoxin-free.

Scan here for more information.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Gel Loading

Fisherbrand® Premium Plus Gel-Loading Tips

Ideal for gel electrophoresis

- Easily access bottom of narrow vessels and gel wells
- Universal fit
- Graduated marks for quick volume checks
- Certified DNase-, RNase-, and human DNA-free

Match O.D. to Gel Thickness

- Round 0.57mm O.D. tips are recommended for loading gels ≥0.6mm thick—great for SDS Page and 2-D gels
- Flat tips are recommended for gels up to 0.4mm thick
- Use flat 0.37mm O.D. tips for 0.4mm thick PAGE sequencing gels; flat 0.17mm tips for 0.2mm DNA sequencing gels

MultiFlex Tips

- 0.5 to 200µL volume
- Fit research-grade pipetters
- 83mm long
- 5µL graduation

MiniFlex Tips

- 0.1 to 10µL volume
- Fit ultra-micro pipetters
- 45mm long
- 2µL graduation

Tip Style	O.D.	Packaging	Cat. No.	Case of
MultiFlex Tips				
Flat	0.37mm	Pack of 200	**05-408-150**	400/135.10
Round	0.57mm	Pack of 200	**05-408-151**	400/72.90
Round	0.57mm	Bag of 1000	**05-408-154**	1000/92.08
MiniFlex Tips				
Flat	0.17mm	Pack of 200	**05-408-152**	400/164.90
Round	0.57mm	Pack of 200	**05-408-153**	400/71.40

(Top) 05-408-150, (Bottom) 05-408-151

(Top) 05-408-152, (Bottom) 05-408-153

Fisherbrand® Gel-Loading Tips

Gel-loading tips are an ideal choice for accurately and easily loading wells in gel electrophoresis

- Round gel-loading tip
- Easily load gels 0.2, 0.4 and 0.6mm
- Applications include Agarose DNA gels, 2-D and SDS PAGE, Capillary gels and Sequencing
- Certified by independent laboratory
- Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Pipetter Compatibility
0.1µL and 1-200µL: Universal fits for research grade pipetters
0.5-10µL: Eppendorf pipetters

Volume	Length	O.D.	Packaging†	Cat. No.	Pack of	Case of
0.1µL	2.25" (57mm)	0.6mm	BP	**02-707-82**	1000/93.20	10 Pk./835.50
0.1µL	2.25" (57mm)	0.6mm	LR, 5 × 204	**02-707-83**	1020/134.30	5 Pk./591.50
0.1µL	2.25" (57mm)	0.6mm	LRS, 5 × 204	**02-707-84**	1020/133.60	5 Pk./588.50
0.5–10µL	2.88" (73mm)	0.6mm	LR, 8 × 204	**02-707-86**	1632/217.50	3 Pk./570.50
0.5–10µL	2.31" (59mm)	0.25mm	LR, 5 × 204	**02-707-88**	1020/383.00	10 Pk./3520.00
0.5–10µL	2.31" (59mm)	0.25mm	LRS, 5 × 204	**02-707-89**	1020/436.00	10 Pk./3940.00
1–200µL	2.75" (70mm)	0.6mm	BP	**02-707-181**	1000/132.50	10 Pk./1163.00
1–200µL	2.75" (70mm)	0.6mm	LR, 5 × 204	**02-707-182**	1020/166.00	5 Pk./707.50
1–200µL	2.75" (70mm)	0.6mm	LRS, 5 × 204	**02-707-81**	1020/167.60	5 Pk./755.50
1–200µL	2.75" (70mm)	0.6mm	HR, 10 × 96	**02-707-138**	960/156.50	5 Pk./696.00
1–200µL	2.75" (70mm)	0.6mm	HRS, 10 × 96	**02-707-139**	960/178.70	5 Pk./763.50

†Packaging Code: BP=Bulk Pack; HR=Hinged Rack; HRS=Hinged Rack, Sterile; LR=Lift-off Rack; LRS=Lift-off Rack, Sterile

02-707-82

02-707-86

02-707-181

Pipetter Specific

Fisherbrand® SureFit™ Ergo-F Pipet Tips

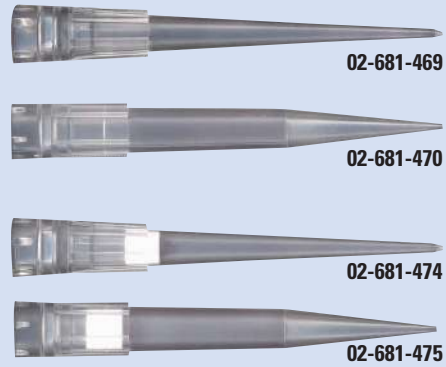
Designed specifically for use with Fisherbrand pipetters

- Available in three capacities, with or without aerosol barrier
- Unique wall design provides an extra-strong seal specific to Fisherbrand pipetters
- Require minimal ejection force
- Certified by independent laboratory – Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Pipetter Compatibility
Fisherbrand Finnpipettes™ and Thermo Scientific™ Finnpipettes

Volume	Packaging†	Cat. No.	Pack of	Case of
Nonfilter Tips				
10–200µL	BP	**02-681-469**	1000/37.55	10 Pk./322.00
10–200µL	HR, 10 × 96	**02-681-478**	960/68.70	5 Pk./298.00
10–200µL	HRS, 10 × 96	**02-681-479**	960/76.50	5 Pk./332.00
10–200µL	RI, 5 × 96	**02-681-483**	480/34.00	10 Pk./292.00
100–1000µL	BP	**02-681-470**	1000/41.75	10 Pk./358.50
100–1000µL	HR, 10 × 100	**02-681-480**	1000/84.10	5 Pk./365.50
100–1000µL	HRS, 10 × 100	**02-681-481**	1000/89.30	5 Pk./401.00
100–1000µL	RI, 10 × 100	**02-681-471**	1000/65.40	5 Pk./283.50
Filter Tips				
20–200µL‡	HRS, 10 × 96	**02-681-474**	960/170.90	5 Pk./736.00
20–200µL††	HRS, 10 × 96	**02-681-473**	960/170.90	5 Pk./758.00
1000	HRS, 10 × 100	**02-681-475**	1000/180.10	5 Pk./817.50

†Packaging Code: BP=Bulk Pack; HR=Hinged Rack; HRS=Hinged Rack, Sterile; RI=Rack Inserts
‡With aerosol barrier at 20µL.
††With aerosol barrier at 100µL.



Pipet tips are not shown to scale.

Fisherbrand® SureFit™ Ergo-G Pipet Tips

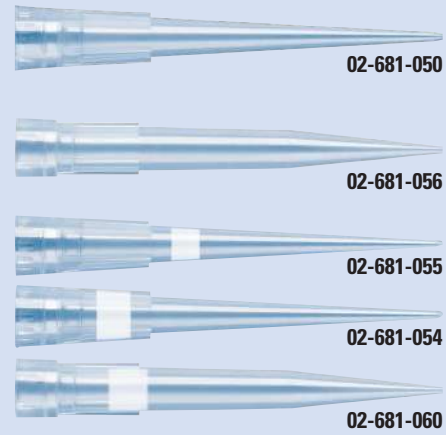
Designed specifically for use with Gilson™ Pipetters

- Ergonomic fit requires less force for tip insertion and ejection
- Secure, consistent seal
- Unique wall design provides an extra strong seal specific to Gilson Pipetters
- Certified by independent laboratory – Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Pipetter Compatibility
Gilson pipetters

Volume	Packaging†	Cat. No.	Pack of	Case of
Nonfilter Tips				
10-200µL	BP	**02-681-050**	1000/35.20	10 Pk./302.50
10-200µL	HR, 10 × 96	**02-681-051**	960/64.00	5 Pk./285.50
10-200µL	HRS, 10 × 96	**02-681-052**	960/71.70	5 Pk./322.00
10-200µL	RI, 5 × 96	**02-681-053**	480/33.25	10 Pk./285.50
100-1000µL	BP	**02-681-056**	1000/40.75	10 Pk./350.00
100-1000µL	HR, 10 × 100	**02-681-057**	1000/79.40	5 Pk./357.00
100-1000µL	HRS, 10 × 100	**02-681-058**	1000/86.50	5 Pk./388.50
100-1000µL	RI, 10 × 100	**02-681-059**	1000/63.70	5 Pk./285.50
Filter Tips				
10-200µL‡	HRS, 10 × 96	**02-681-055**	960/169.80	5 Pk./727.00
10-200µL††	HRS, 10 × 96	**02-681-054**	960/154.80	5 Pk./717.00
100-1000µL	HRS, 10 × 10	**02-681-060**	1000/163.90	5 Pk./759.50

†Packaging Code: BP=Bulk Pack; HR=Hinged Rack; HRS=Hinged Rack, Sterile; RI=Rack Inserts.
‡With aerosol barrier at 20µL.
††With aerosol barrier at 100µL.



Pipet tips are not shown to scale.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Pipetter-Specific Tips

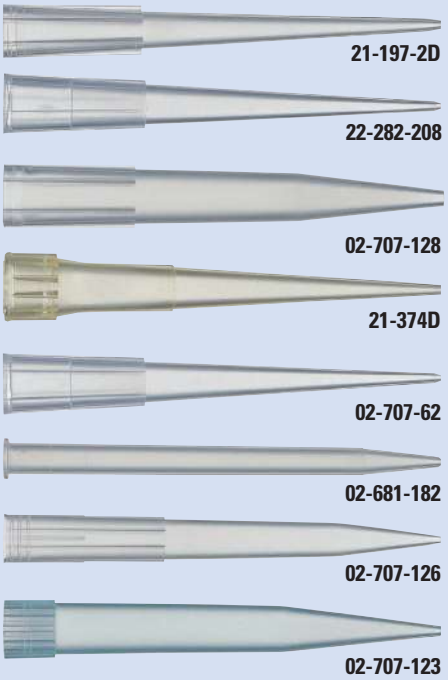
- Tips for specific applications
- Designed to fit distinctive pipetters
- Certified by independent laboratory
- Nonsterile: RNase, DNase, DNA, and Pyrogen Free; Sterile: RNase, DNase, DNA, Bioburden, PCR Inhibitor, and Pyrogen Free

Pipetter Compatibility

1. Oxford BenchMate™, Pipetman™, Thermo Scientific™ Finnpipette™, Rainin™ Classic, Eppendorf™ Research
2. MLA™ Small Volume
3. Oxford P-3000, P-7000; Helena™
4. Biohit Proline™; Transferpette™; Corning™ Lambda™; Eppendorf Research, Reference; Labpette™ Digital; Mettler Toledo™ VoluMate™; Nichiryo; Oxford BenchMate; Pipetman; Socorex; Thermo Scientific Finnpipette; Rainin Classic
5. Biohit Proline; Nichiryo; Oxford BenchMate; Pipetman; Corning Lambda; Mettler Toledo VoluMate, Thermo Scientific Finnpipette, Rainin Classic, Eppendorf Research
6. Biopet™, Clay Adams™, Selectapette™
7. Thermo Scientific Matrix
8. Eppendorf Research

Code	Volume	Length	Color	Packaging†	Cat. No.	Pack of	Case of
1	0–200µL	2" (50.8mm)	Natural	BP	**21-197-2D**	1000/89.66	10 Pk./766.02
2	0–200µL	2" (50.8mm)	Natural	SR, 5 × 200	**22-282-208**	1000/49.70	10 Pk./423.50
3	1–200µL	2.5" (63.5mm)	Natural	SR, 5 × 200	**21-244-3**	1000/126.90	5 Pk./559.50
3	1–200µL	2.5" (63.5mm)	Natural	SL/SR	**21-240-11**	1000/79.97	5 Pk./338.64
4	1–200µL	1.88" (47.8mm)	Yellow	BP	**21-375D**	1000/81.50	10 Pk./721.65
4	1–200µL	1.88" (47.8mm)	Yellow	SR, 5 × 200	**21-374D**	1000/114.80	10 Pk./1035.00
4	1–200µL	1.88" (47.8mm)	Yellow	LR, 10 × 96	**02-707-121**	960/82.30	5 Pk./368.00
4	1–200µL	1.88" (47.8mm)	Yellow	LRS, 10 × 96	**02-707-122**	960/95.60	5 Pk./415.00
5	5–300µL	2.13" (54mm)	Natural	BP	**02-707-62**	1000/53.35	10 Pk./455.43
5	5–300µL	2.13" (54mm)	Natural	LR, 10 × 96	**02-707-63**	960/96.50	5 Pk./433.00
5	5–300µL	2.13" (54mm)	Natural	LRS, 10 × 96	**02-707-120**	960/100.20	5 Pk./448.50
6	100–1000µL	4" (101.6mm)	Natural	BP	**02-681-182**	500/72.11	10 Pk./599.76
7	100–1300µL	3.13" (79.5mm)	Natural	LR, 10 × 96	**02-707-126**	960/109.00	5 Pk./490.50
7	100–1300µL	3.13" (79.5mm)	Natural	LRS, 10 × 96	**02-707-127**	960/115.50	5 Pk./518.50
8	101–1000µL	2.8" (71mm)	Blue	BP	**21-375E**	1000/87.50	10 Pk./782.00
8	101–1000µL	2.8" (71mm)	Blue	LR	**02-707-123**	960/90.20	5 Pk./402.50
8	101–1000µL	2.8" (71mm)	Blue	LRS	**02-707-124**	1000/99.10	5 Pk./443.00

†Packaging Code: BP=Bulk Pack; LR=Lift-off Rack; LRS=Lift-off Rack, Sterile; SR=Stack Rack; SL=SlimLine.



Pipet tips are not shown to scale.

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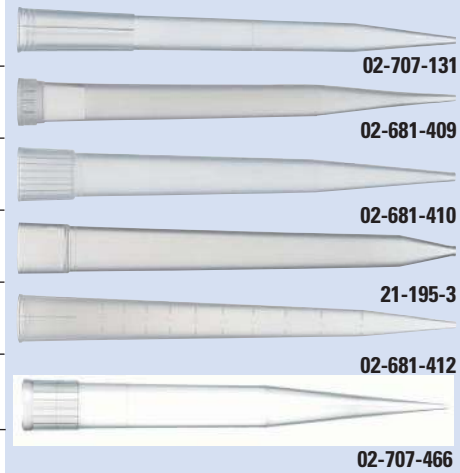
Fisherbrand® Maxi Pipet Tips

For use with large volume pipets

- Designed for use when transferring large sample volume
- Advanced molding technology ensure tips are straight
- Alternative option to serological pipets
- Nonsterile; certified by independent laboratory to be RNase, DNase, DNA and Pyrogen free

For Use with	Volume	Length	Packaging	Cat. No.	Pack of	Case of
Rainin™ EDP	250–2500µL	4.19" (106mm)	BP	**02-707-131**	500/63.70	10 Pk./563.00
Eppendorf™ Reference, Socorex™	500–2500µL	4.5" (114mm)	BP	**02-681-409**	500/128.90	5 Pk./582.00
Biohit Proline™, Eppendorf Research™, Genemate™ ISC Bio Express, Jencons Sealpette™, Labnet Labpette™ Digital	5000µL	4.75" (121mm)	BP	**02-681-410**	250/62.42	10 Pk./531.42
Genemate ISC Bio Express, Benchmate™, Pipetman™ (P-5000), Socorex, Rainin Classic	1000–5000µL	4.56" (116mm)	BP	**21-195-3**	250/54.10	10 Pk./520.20
Pipetman (P-10mL), Rainin Classic	1–10mL	6.44" (164mm)	BP	**02-681-412**	200/84.10	10 Pk./735.00
Fisherbrand Elite™, Fisherbrand II and Thermo Scientific™ Finnpipette Style	1–5mL	10" (254mm)	BP	**02-707-467**	250/62.80	10 Pk./563.00
Fisherbrand Elite, Fisherbrand II and Thermo Scientific™ Finnpipette Style	1–10mL	10" (254mm)	BP	**02-707-466**	100/54.90	10 Pk./475.00

Packaging Code: BP=Bulk Pack



Pipet tips are not shown to scale.

SETTING UP A NEW LAB CAN BE OVERWHELMING. LET US HELP.

The Fisher Scientific New Lab Start-Up Program is an effective, economical way to obtain exclusive money-saving offers on the supplies you need. We've teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products for your new lab. Visit **www.fishersci.com/newlab** to apply today!

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Thermo Scientific™ ClipTip™ Pipet Tips

Unique and innovative interlock design transforms daily pipetting

A secure seal for every sample with an innovative interlocking design.

- ClipTip pipet tips feature 'clips' that lock tips in place and forms a complete seal
- Each time ClipTip pipet tips are on, they are sealed and will not loosen regardless of application pressure
- ClipTip tip is clipped securely on the F1-ClipTip pipet with a light touch by eliminating the frustration of banging tips on your pipet

Low retention

- Every ClipTip pipette tip utilizes low retention technology to enable maximum sample recovery

Proven quality

- Certified free of RNase, DNase, DNA, ATP and endotoxin contamination
- Environmentally responsible
- ClipTip reload system uses recycled components and 30% less plastic

Versatile Tip Range

- Choose from five sizes: 20, 50, 200, 300 and 1000µL

Immediate trace ability

- Each tip insert has ink-jetted lot and volume information; the convenient color key makes it easy to match the color of the F1-ClipTip pipet plunger cap with the corresponding ClipTip pipet tip rack insert

ClipTip Reload System

COMPLIANCE: The F1-ClipTip pipetting system is CE-marked in accordance with IVD Directive in Europe.

CERTIFICATIONS: Manufactured according to ISO™ 9001, ISO 14001 and ISO 13485

NOTES: Availability may vary by country.

Description	Packaging	Volume Range	Color Code	Compatible Pipettes	Mfr. No.	Cat. No.	Pack of
ClipTip 12.5, Racked	10 × 96/Rack	0.5 to 12.5µL	Pink	E1-ClipTip Single-channel 0.5 to 12.5µL, E1-ClipTip 8-channel 0.5 to 12.5µL, and E1-ClipTip 12-channel 0.5 to 12.5µL™	94410040	**14-387-976**	960/54.00
ClipTip 12.5, Racked, Sterile	10 × 96/Rack	0.5 to 12.5µL	Pink		94410043	**14-387-977**	960/69.00
ClipTip 384 12.5, Racked	10 × 384/Rack	0.5 to 12.5µL	Pink	E1-ClipTip 16-channel 0.5 to 12.5µL, E1-ClipTip Equalizer 384 8-channel 0.5 to 12.5µL, and E1-ClipTip Equalizer 384 12-channel 0.5 to 12.5µL	94410050	**14-387-985**	3840/272.00
ClipTip 384 12.5, Racked, Sterile	10 × 384/Rack	0.5 to 12.5µL	Pink		94410053	**14-387-986**	3840/328.00
ClipTip 20, Racked	10 × 96/Rack	1 to 20µL	Pink	F1-ClipTip 1-10µL, Fixed 1-20µL, 8-ch 1-10µL and 12-ch 1-10µL	94410210	**14-488-042**	960/56.10
ClipTip 20, Reload Stacks	10 × 96/insert	1 to 20µL	Pink		94410217	**14-488-051**	960/51.00
ClipTip 20, Racked, Sterile	10 × 96/Rack	1 to 20µL	Pink	F1-ClipTip 1-10µL, Fixed 1-20µL, 8-ch 1-20µL and 12-ch 1-10µL	94410213	**14-488-056**	960/71.20
ClipTip 20, Reload Stacks, Sterile	10 × 96/insert	1 to 20µL	Pink		94410218	**14-488-046**	960/65.70
ClipTip 20, Racked, Filter, Sterile	10 × 96/rack	1 to 20µL	Pink		94420213	**14-488-001**	960/103.50
ClipTip 384 30, Racked	10 × 384/Rack	1 to 30µL	Violet	E1-ClipTip 16-channel 1 to 30µL, E1-ClipTip Equalizer 384 8-channel 1 to 30µL, E1-ClipTip Equalizer 384 12-channel 1 to 30µL	94410100	**14-387-988**	3840/272.00
ClipTip 384 30, Racked, Sterile	10 × 384/Rack	1 to 30µL	Violet		94410103	**14-387-989**	3840/328.00
ClipTip 50, Racked	10 × 96/rack	5 to 50µL	Violet	F1-ClipTip 5-50µL, Fixed 25µL and 50µL, 8-ch 5-50µL and 12-ch 5-50µL	94410250	**14-488-060**	960/56.10
ClipTip 50, Racked, Sterile	10 × 96/rack	5 to 50µL	Violet		94410253	**14-488-057**	960/71.20
ClipTip 50, Reload Stacks	10 × 96/insert	5 to 50µL	Violet		94410257	**14-488-052**	960/51.00
ClipTip 50, Reload Stacks, Sterile	10 × 96/insert	5 to 50µL	Violet		94410258	**14-488-047**	960/65.70
ClipTip 50, Racked, Filter, Sterile	10 × 96/rack	5 to 50µL	Violet		94420253	**14-488-002**	960/103.50
ClipTip 384 125, Racked	10 × 384/Rack	1 to 125µL	Yellow	E1-ClipTip 16-channel 5 to 125µL, E1-ClipTip Equalizer 384 8-channel 5 to 125µL, and E1-ClipTip Equalizer 384 12-channel 5 to 125µL	94410150	**14-387-991**	3840/272.00
ClipTip 384 125, Racked, Sterile	10 × 384/Rack	1 to 125µL	Yellow		94410153	**14-387-992**	3840/328.00
ClipTip 200, Racked	10 × 96/rack	10 to 200µL	Yellow	F1-ClipTip 10-100µL, 20-200µL, Fixed 100µL and 200µL, 8-ch 10-100µL and 12-ch 10-100µL	94410310	**14-488-043**	960/56.10
ClipTip 200, Racked, Sterile	10 × 96/rack	10 to 200µL	Yellow		94410313	**14-488-058**	960/71.20
ClipTip 200, Reload Stacks	10 × 96/insert	10 to 200µL	Yellow		94410317	**14-488-053**	960/51.00
ClipTip 200, Reload Stacks, Sterile	10 × 96/insert	10 to 200µL	Yellow		94410318	**14-488-048**	960/65.70
ClipTip 200, Racked, Filter, Sterile	10 × 96/rack	10 to 200µL	Yellow		94420313	**14-488-003**	960/103.50
ClipTip 200, Reload, Filter, Sterile	10 × 96/insert	10 to 200µL	Yellow		94420318	**14-488-008**	960/96.00
ClipTip 300, Racked	10 × 96/rack	30 to 300µL	Orange	F1-ClipTip 30-300µL, Fixed 250µL, 8-ch 30-300µL and 12-ch 30-300µL	94410510	**14-488-044**	960/56.10
ClipTip 300, Racked, Sterile	10 × 96/rack	30 to 300µL	Orange		94410513	**14-488-059**	960/71.20
ClipTip 300, Reload Stacks	10 × 96/insert	30 to 300µL	Orange		94410517	**14-488-054**	960/51.00
ClipTip 300, Reload Stacks, Sterile	10 × 96/insert	30 to 300µL	Orange		94410518	**14-488-049**	960/65.70
ClipTip 300, Racked, Filter, Sterile	10 × 96/rack	30 to 300µL	Orange		94420513	**14-488-004**	960/103.50
ClipTip 300, Reload, Filter, Sterile	10 × 96/insert	30 to 300µL	Orange		94420518	**14-488-009**	960/96.00

Contd. on the next page.

Thermo Scientific™ ClipTip™ Pipet Tips, Contd.

Description	Packaging	Volume Range	Color Code	Compatible Pipets	Mfr. No.	Cat. No.	Pack of
ClipTip 1000, Racked	8 × 96/rack	100 to 1000µL	Blue	F1-ClipTip 100-1000µL, Fixed 500µL and Fixed 1000µL	94410710	**14-488-045**	768/61.70
ClipTip 1000, Racked, Sterile	8 × 96/rack	100 to 1000µL	Blue		94410713	**14-488-041**	768/79.30
ClipTip 1000, Reload Stacks	8 × 96/insert	100 to 1000µL	Blue		94410717	**14-488-055**	768/56.60
ClipTip 1000, Reload Stacks, Sterile	8 × 96/insert	100 to 1000µL	Blue		94410718	**14-488-050**	768/71.70
ClipTip 1000, Racked, Filter, Sterile	8 × 96/rack	100 to 1000µL	Blue		94420713	**14-488-005**	768/113.10
ClipTip 1000, Reload, Filter, Sterile	8 × 96/insert	100 to 1000µL	Blue		94420718	**14-488-010**	768/106.00
ClipTip 1250, Racked	8 × 96/Rack	50 to 1250µL	Turquoise	E1-ClipTip Single-channel 50 to 1250µL, E1-ClipTip 8-channel 50 to 1250µL, E1-ClipTip Equalizer 6-channel 50 to 1250µL, and E1-ClipTip Equalizer 8-channel 50 to 1250µL	94410810	**14-387-979**	768/59.00
ClipTip 1250, Racked, Sterile	8 × 96/Rack	50 to 1250µL	Turquoise		94410813	**14-387-980**	768/76.00
ClipTip 1250, Reload Stacks	8 × 96/Reload Inserts	50 to 1250µL	Turquoise		94410817	**14-387-981**	768/55.00
ClipTip 1250, Reload Stacks, Sterile	8 × 96/Reload Inserts	50 to 1250µL	Turquoise		94410818	**14-387-982**	768/70.00
ClipTip 1250, Racked, Filter, Sterile	8 × 96/Rack	50 to 1250µL	Turquoise		94420813	**14-387-983**	768/110.00
ClipTip 1250, Reload Stacks, Filter, Sterile	8 × 96/Reload Inserts	50 to 1250µL	Turquoise		94420818	**14-387-984**	768/106.00
Empty Racks							
ClipTip Empty Rack, Small	10 × Rack, no tips/inserts	----	----	ClipTip 20 and 50	94410219	**14-488-146**	10/25.39
ClipTip Empty Rack, Medium	10 × Rack, no tips/inserts	----	----	ClipTip 200 and 300	94410519	**14-488-011**	10/26.30
ClipTip Empty Rack, Large	10 × Rack, no tips/inserts	----	----	ClipTip 1000	94410819	**14-488-012**	8/26.30

Thermo Scientific™ Matrix™ Pipet Tips

A comprehensive offering of tips supplied in innovative Flo-Thru™ racks

Matrix pipetters and pipet tips are designed together to ensure that a perfect balance exists between security of the seal and ease of application/ejection. Manufactured under tight QC specifications, these standard tips rival special low-retention tips currently on the market after pipetting fluids such as dH_2O, 50% Glycerol, Hybridized Buffer and 0.1% SDS.

Benefits

- Sealing rings on tips ensure confident, leak-free seal without banging tips on pipetter
- Because the sealing rings compress, these tips also offer a secure seal on most other pipetters on the market
- Highly polished molds, rigorous maintenance procedures ensure low liquid retention tips without special treatments or additives
- Stabilization rings in racks hold tips steady when seating on pipetter
- Venting features in rack ensure proper heat flow during autoclaving and reduce condensation on tips
- Finger notch on racks allows easy removal/insertion of refill trays

Innovative Racks and Packaging

- Rigid rack design ensures solid, even tip seating; rack will not flex or bend when trying to apply tips
- Unique Flo-Thru™ rack individually supports tips to prevent them from wobbling when trying to seat them on the pipetter
- Hinge prevents sterile lid from coming in contact with lab bench
- Venting along the edge or around each tip improves heat flow during autoclaving; reduces condensation that can form on the tips
- Dual-position lid can be propped open to prevent vacuum deformation during autoclaving
- Sterile racks are sold in individual bags with quick-tear openings; each rack remains sterile until ready for use
- Each rack is labeled with product details including re-ordering information, description, volume range, and lot number
- Racks are constructed of clean recycled materials and are made as small as possible to reduce waste
- Racks are marked with appropriate symbols to support recycling initiatives

Pipetter compatability
Fits Thermo Scientific Matrix Electronic Pipetters

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
10µL	Bulk	7610	**14-387-183**	1000/57.90
10µL	Racks, 10 × 96	7611	**14-387-184**	960/76.70
10µL	Racks, 10 × 96, Sterile	7612	**14-387-185**	960/89.10
12.5µL	Racks, 10 × 384	7421	**14-387-191**	3840/425.00
12.5µL	Racks, 10 × 384, Sterile	7422	**14-387-192**	3840/454.50
20µL	Bulk	7620	**14-387-187**	1000/57.80
20µL	Racks, 10 × 96	7621	**14-387-188**	960/76.70
30µL	Racks, 10 × 384	7431	**14-387-194**	3840/425.00
30µL	Racks, 10 × 384, Sterile	7432	**14-387-195**	3840/454.00
125µL	Racks, 10 × 384	7441	**14-387-197**	3840/425.50
125µL	Racks, 10 × 384, Sterile	7442	**14-387-198**	3840/453.00
300µL	Bulk	7320	**14-387-174**	1000/57.80
300µL	Racks, 10 × 96	7321	**14-387-175**	960/76.70
300µL	Racks, 10 × 96, Sterile	7322	**14-387-176**	960/87.50
1250µL	Bulk	8050	**14-387-178**	500/50.60
1250µL	Racks, 10 × 96	8041	**14-387-179**	960/109.10
1250µL	Racks, 10 × 96, Sterile	8042	**14-387-180**	960/115.90

Thermo Scientific™ Matrix™ Filtered Pipet Tips

Sterile tips are rigorously tested to ensure optimum performance

Benefits

- Stringent testing guarantees filter tips that effectively block aerosols
- Hydrophobic polyethylene filter material ensures no particulates contaminate samples
- Inadvertent contact with filter will not contaminate sample or result in sample loss
- Easy-to-open packaging maintains product sterility while providing easy access
- Hinged lid allows rack to be opened without laying lid on benchtop, helping to maintain sterility
- Racks are sealed in thick polyethylene bag for sterility; easy to open with simple snap-and-tear packaging

Stringent Filter Testing

- Every filter must meet certain porosity requirements and must form a complete barrier across face of tip
- To ensure defects are not present, two specific tests are performed: mercury intrusion and particle count testing
- Mercury Intrusion Testing (QC 13.1 - QC 13.8) ensures the filter itself meets specific aerosol blocking requirements
- Particle Count Testing (Test Protocol QAS-0100) ensures filter is effective at blocking aerosols after installation into tip; ensures proper shape and fit of filter
- Every lot of tips is tested by drawing a vacuum of aerosols against the filter and ensuring particles do not pass through

14-387-181

Pipetter Compatability
Thermo Scientific Matrix Electronic Pipetters

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
10µL, P2/P10	Racks, 10 × 96	7615	**14-387-186**	960/134.80
12.5µL	Racks, 10 × 384	7425	**14-387-193**	3840/670.00
30µL	Racks, 10 × 96	7155	**14-387-171**	960/133.70
30µL	Racks, 10 × 384	7435	**14-387-196**	3840/670.50
125µL	Racks, 10 × 384	7445	**14-387-199**	3840/670.50
200µL	Racks, 10 × 96	7275	**14-387-173**	960/134.80
250µL	Racks, 10 × 96	7325	**14-387-177**	960/134.80
1250µL	Racks, 10 × 96	8045	**14-387-181**	960/172.80

Thermo Scientific™ Matrix™ Pipet Tips In Ecotips™ Refill Packaging

Environmentally friendly tip refill system reduces plastic waste by eliminating need for a new tip box for each rack of tips

- A much more compact alternative to standard racked tips
- Environmentally friendly—reduces plastic waste by eliminating need for a new tip box for each rack of tips
- Quick, efficient refill; reloading empty tip boxes is quick and easy
- Tips are made from 100% virgin polypropylene; insert trays and boxes come from our own recycled materials
- System is 100% recyclable; each component is marked with appropriate recycling symbols
- Space-saving design saves bench, shelf, and closet space
- Refills fit easily in a drawer, on a shelf, or on the bench

14-387 Series

Pipetter compatability
Fits Thermo Scientific Matrix Electronic Pipetters

Volume	Packaging	Mfr. No.	Cat. No.	Pack of 960
250µL	Refill Trays, 10 × 96	7156	**14-387-172**	68.40
1250µL	Refill Trays, 10 × 96	8046	**14-387-182**	101.50
Tall Tip Ecotips				
1250µL	Refill Trays, 10 × 96	8246	**14-387-162**	103.90

Thermo Scientific™ Matrix™ Filtered TallTip Extended Length Pipet Tips

Extended length and narrow shaft for maximum reach

- Prevent cross-contamination from vessel walls
- Allow the use of large volume tips in small spaces resulting in less liquid displacement
- Nonbeveled, narrow tip ends provide cleaner touch-off of sidewalls for greater precision
- Allow you to reach the bottom of particularly long or narrow vessels that standard tips cannot reach
- 102mm maximum length offers safe access to 100mm test tubes
- Flo-Thru rack reduces tip wobble and improves airflow while autoclaving

Hydrophobic Filter

- Stringent testing guarantees filter tips that effectively blocks aerosols
- Hydrophobic filter material ensures no particulates contaminate samples
- Easy-to-open packaging ensures product maintains sterility while being easy to access
- Hinged rack lids can be opened without laying lid on benchtop, helping to maintain sterility

Matrix Pipet Tip Features

- Sealing rings on tips ensure a confident seal without banging tips on a pipetter
- Highly polished molds and rigorous maintenance procedures ensure low liquid retention tips without special treatments or additives
- Stabilization rings in racks hold tips steady when seated on a pipetter
- Rigid rack design ensures solid, even tip seating
- Venting features in rack ensure proper heat flow during autoclaving and reduce condensation on tips
- Hinged lid prevents sterile lid from coming in contact with lab bench

14-387 Series

Pipetter compatibility
Fits Thermo Scientific Matrix Electronic Pipetters

TallTip Extended Length Pipet Tips

Volume	Packaging	Mfr. No.	Cat. No.	Pack of
30µL	Bulk, 1000 tips	7600	**14-387-146**	1000/58.60
30µL	Racks, 10 × 96	7631	**14-387-147**	960/76.70
30µL	Racks, 10 × 96, Sterile	7632	**14-387-148**	960/90.40
250µL	Bulk, 500 tips	7280	**14-387-150**	500/34.55
250µL	Bulk, 1000 tips	7250	**14-387-168**	1000/58.60
250µL	Racks, 10 × 96	7151	**14-387-169**	960/78.00
250µL	Racks, 10 × 96, Sterile	7152	**14-387-170**	960/90.50
250µL	Racks, 10 × 96	7281	**14-387-151**	960/83.40
250µL	Racks, 10 × 96, Sterile	7282	**14-387-152**	960/92.70
300µL	Bulk, 300 tips	7080	**14-387-154**	500/34.50
300µL	Racks, 10 × 96	7081	**14-387-155**	960/83.40
300µL	Racks, 10 × 96, Sterile	7082	**14-387-156**	960/92.70
1250µL	Racks, 10 × 96	8241	**14-387-159**	960/112.30
1250µL	Racks, 10 × 96, Sterile	8242	**14-387-160**	960/120.90
1250µL	Bulk, 500 tips	8250	**14-387-158**	500/52.40

Filtered TallTip Extended Length Pipet Tips

Volume	Packaging	Mfr. No.	Cat. No.	Pack of 960
12.5µL	Racks, 10 × 96, Filtered	7635	**14-387-149**	136.90
200µL	Racks, 10 × 96, Filtered	7285	**14-387-153**	147.70
250µL	Racks, 10 × 96, Filtered	7085	**14-387-157**	146.60
1250µL	Racks, 10 × 96, Filtered	8245	**14-387-161**	175.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Repeater

Fisherbrand® Dispenser Tips for Handystep™ S Repeating Pipetter

Manufactured from high-quality virgin plastics for use with all standard repeating pipettes in a wide variety of applications. The tips are made without chemical additives to prevent reagent contamination.

25mL and 50mL tips require the use of an adapter; one reusable adapter supplied in each package of 25mL and 50mL tips.

- Precision seal between the piston and cylinder ensure smooth operation, increased accuracy and precision
- Extended piston design minimizes dead volume and maximizes fluid utilization
- Made entirely from high-quality virgin high-density polyethylene and polypropylene
  (Piston of 0.1mL tip is liquid crystal polymer-LCP)

Fisherbrand Dispenser Tips

Pipetter Compatability

Fisherbrand™ Handy Steps Repeating Pipetter; BRAND HandyStep™ S; HandyStep™ electronic; the"black-handled" Eppendorf™; Repeater™; the Rainin™ AutoRep™ E; AutoRep™ M, and the Gilson™ Repetman™

Fisherbrand PD-Tips Selection Chart

Dial Setting	1	1.5	2	2.5	3	3.5	4	4.5	5
Steps	49	32	24	19	15	13	11	10	9

Capacity [Metric]	Volume Range†	Accuracy‡	Precision‡	Cat. No.	Pack of
0.1mL	2-10µL	±≤8.0 to 1.6%	≤5.0 to 3.0%	**13-668-700**	100/143.44
0.5mL	10-50µL	±≤4.0 to 0.8%	≤1.4 to 0.6%	**13-668-701**	100/149.90
1mL	20-100µL	±≤4.0 to 0.8%	≤1.0 to 0.4%	**13-668-702**	100/146.30
1.25mL	25-125µL	±≤4.0 to 0.8%	≤0.8 to 0.3%	**13-668-703**	100/149.90
2.5mL	50-250µL	±≤3.5 to 0.7%	≤0.8 to 0.2%	**13-668-704**	100/149.90
5mL	100-500µL	±≤2.5 to 0.5%	≤0.6 to 0.2%	**13-668-705**	100/149.90
10mL	200-1000µL	±≤1.5 to 0.4%	≤0.5 to 0.2%	**13-668-706**	100/146.30
12.5mL	250-1250µL	±≤1.5 to 0.3%	≤0.3 to 0.2%	**13-668-707**	100/146.26
25mL	500-2500µL	±≤1.5 to 0.3%	≤0.4 to 0.2%	**13-668-708**	50/77.50
50mL	1000-5000µL	±≤1.5 to 0.3%	≤0.4 to 0.15%	**13-668-709**	25/45.60
0.1mL	2-10µL	±≤8.0 to 1.6%	≤5.0 to 2.0%	**13-668-710**	100/182.80
0.5mL	10-50µL	±≤4.0 to 0.8%	≤1.4 to 0.6%	**13-668-711**	100/182.80
1mL	20-100µL	±≤4.0 to 0.8%	≤1.0 to 0.4%	**13-668-712**	100/178.40
1.25mL	25-125µL	±≤4.0 to 0.8%	≤0.8 to 0.3%	**13-668-713**	100/182.80
2.5mL	50-250µL	±≤3.5 to 0.7%	≤0.8 to 0.2%	**13-668-714**	100/178.40
5mL	100-500µL	±≤2.5 to 0.5%	≤0.6 to 0.2%	**13-668-715**	100/182.80
10mL	200-1000µL	±≤1.5 to 0.4%	≤0.5 to 0.2%	**13-668-716**	100/174.87
12.5mL	250-1250µL	±≤1.5 to 0.3%	≤0.3 to 0.2%	**13-668-717**	100/178.40
25mL	500-2500µL	±≤1.5 to 0.3%	≤0.4 to 0.2%	**13-668-718**	25/52.30
50mL	1000-5000µL	±≤1.5 to 0.3%	≤0.4 to 0.15%	**13-668-719**	25/44.50
For 25mL and 50mL tips (non-sterile)	---	---	---	**13-668-720**	10/92.00
For 25mL and 50mL tips (sterile)	---	---	---	**13-668-721**	5/64.00

†Based on mechanical pipet settings of 1 to 5, respectively
‡Based on stroke setting 1 to setting 5, respectively. (Accuracy and precision refer to the pipet and tips as a set. We can't make any statement about the accuracy of third party pipets).

Thermo Scientific™ Finntip™ Stepper Tips

For use with the Finnipette™ Stepper Pipetter

21-377-156

- Plunger style tips
- Overall dispensing range of 10 to 5000µL
- Nonsterile tips are bulk packaged; sterile tips are individually wrapped

CERTIFICATIONS: ISO™ 9001 and ISO 14001

Capacity	Type	Dispensing Volume	Mfr. No.	Cat. No.	Pack of
0.5mL	Nonsterile	10, 20, 30, 40, 50µL	9404-170	**21-377-148**	100/130.96
0.5mL	Sterile		9404-173	**21-377-149**	50/88.28
1.25mL	Nonsterile	25, 50, 75, 100, 125µL	9404-180	**21-377-150**	100/130.96
1.25mL	Sterile		9404-183	**21-377-151**	50/88.28
2.5mL	Nonsterile	50, 100, 150, 200, 250µL	9404-190	**21-377-152**	100/130.96
2.5mL	Sterile		9404-193	**21-377-153**	50/88.28
5.0mL	Nonsterile	100, 200, 300, 400, 500µL	9404-200	**21-377-154**	50/66.82
5.0mL	Sterile		9404-203	**21-377-155**	25/45.70
12.5mL	Nonsterile	250, 500, 750, 1000, 1250µL	9404-210	**21-377-156**	50/66.13
12.5mL	Sterile		9404-213	**21-377-157**	25/44.19
25mL†	Nonsterile	500, 1000, 1500, 2000, 2500µL	9404-220	**21-377-158**	20/28.67
25mL†	Sterile		9404-223	**21-377-159**	10/20.33
50mL†	Nonsterile	1000, 2000, 3000, 4000, 5000µL	9404-230	**21-377-160**	10/19.05
50mL†	Sterile		9404-233	**21-377-161**	10/20.33

† 25 and 50mL tips must be fitted with adapter before being attached to handle.

Thermo Scientific™ Finntip™ Multistepper™ Pipet Tips

Extra long tips, with more air space between the liquid and tip cone to prevent contamination

21-377-34

- For use with Thermo Scientific Finnipette™ Multistepper Pipetter
- Length: 8.8cm
- Volume: 1500µL

CERTIFICATIONS: ISO™ 9001 and ISO 14001

Type	Packaging	Mfr. No.	Cat. No.	Pack of
Nonsterile	10 Racks of 96	9401-330	**21-377-34**	960/131.48
Nonsterile	Bag of 400	9401-300	**21-377-78**	400/46.70
Sterile	10 Racks of 96	9401-333	**21-377-69**	960/161.34

Eppendorf™ Combitips Advanced™ Pipetter Tips - Standard

High-precision and quick dispensing independent of liquid density and viscosity

13-683-700

Ideal for all Multipettes™. Working with radioactive, aggressive or toxic materials also becomes safer due to hermetically sealed piston. The new individual color coding facilitates quick identification of the desired tip.

- Slip agent free
- Funnel geometry from cylinder to rim
- Function according to the positive displacement principle
- Elongated design for complete emptying of all common tubes
- Optimized graduations for visibility of liquid volume
- Automatic Combitip recognition and volume calculation
- 3D design on the upper rim for easy recognition
- Available in Eppendorf Quality, PCR clean or Biopur™ purity grade

Volume	Mfr. No.	Cat. No.	Case of
Biopur Quality Tips			
0.1mL	0030089618	**13-683-718**	100/167.28
0.2mL	0030089626	**13-683-719**	100/167.28
0.5mL	0030089634	**13-683-720**	100/167.28
1mL	0030089642	**13-683-721**	100/167.28
2.5mL	0030089650	**13-683-722**	100/167.28
5mL	0030089669	**13-683-723**	100/167.28
10mL	0030089677	**13-683-724**	100/167.28
25mL	0030089685	**13-683-725**	100/190.74
50mL	0030089693	**13-683-726**	100/190.74
Eppendorf Quality Tips			
0.1mL	0030089405	**13-683-700**	100/117.30
0.2mL	0030089413	**136-83-701**	100/117.30
0.5mL	0030089421	**13-683-702**	100/117.30
1mL	0030089430	**13-683-703**	100/117.30
2.5mL	0030089448	**13-683-704**	100/117.30
5mL	0030089456	**13-683-705**	100/117.30
10mL	0030089464	**13-683-706**	100/117.30
25mL	0030089472	**13-683-707**	100/147.90
50mL	0030089480	**13-683-708**	100/147.90
Sterile Tips			
0.1mL	0030089510	**13-683-709**	100/147.90
0.2mL	0030089529	**13-683-710**	100/147.90
0.5mL	0030089537	**13-683-711**	100/147.90
1mL	0030089545	**13-683-712**	100/147.90
2.5mL	0030089553	**13-683-713**	100/147.90
5mL	0030089561	**13-683-714**	100/147.90
10mL	0030089570	**13-683-715**	100/147.90
25mL	0030089588	**13-683-716**	100/173.40
50mL	0030089596	**13-683-717**	100/173.40

ACCESSORIES

Eppendorf™ Adapters for Combitips Advanced™ Pipet Tips

For Use with	Color Code	Mfr No.	Cat. No.	Pack of
25mL Eppendorf quality tip	Red	0030089715	**13-683-727**	1/21.94
50mL Eppendorf quality tip	Light gray	0030089723	**13-683-728**	1/21.94
25mL Biopur quality tip	Red	0030089731	**13-683-729**	7/131.58
50mL Biopur quality tip	Light gray	0030089740	**13-683-730**	7/131.58

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Before You Buy **Pipetter Tips**

Thermo SCIENTIFIC

Things to Consider When Selecting an Automation Tip

- The most critical aspect when choosing an automation tip supplier is consistent performance and an adequate quality control system to make sure each tip performs to the rigorous customer specifications. Thermo Scientific addresses this with a 15-point QC checklist which includes testing tips every three hours during production on an epMotion workstation to ensure consistency and very low %CV values.
- The second most critical aspect when choosing an automation tip supplier is consistent delivery. Customers using automation tips have tight deadlines and often use automation tips in clinical applications where timely results are required. By utilizing high capacity molds and Thermo Scientific is commited to holding stock at all times, ready for fast turnaround when orders are received.
- The third aspect when choosing an automation tip supplier is price. Our customer's budgets are getting tighter and need additional price relief to stretch their budget dollars. As one of the largest pipette tips manufacturers globally, Thermo Scientific can offer a consistently performing product with on-time delivery at a price that allows lab managers to increase their purchase power by saving time and money.

Product Information

Liberate your Eppendorf® epMotion® Automated Pipetting System

With Automation Tips and Accessories

With the broadest range of automation tips and accessories, we provide solutions for your liquid handling needs. Our products increase efficiency through accurate and precise performance. There are more than 300 Thermo Scientific™ automation tips designed to fit over 50 workstations and pipetting head variations. These tips undergo a rigorous quality control program to ensure consistency resulting in superior tip straightness and a low coefficient of variation ranging from 1% to 3%. With stringent manufacturing specifications, our tips adhere to tolerances 400% tighter than standard pipette tips. Supporting a variety of tip configurations on Thermo Scientific automated liquid handling workstations, the Thermo Scientific D.A.R.T.'S transfer tool simplifies operations and increases efficiency. With the flexibility to handle reagents on virtually any automated workstation, the Thermo Scientific automation reservoirs feature the same shape and dimensions as standard microplates and are designed to reduce reagent waste.

- Accurate and precise performance
- Low percentage coefficient of variation (%CV)
- Validated on the actual Eppendorf epMotion instrument
- Available in three sizes and nonsterile, sterile or sterile filtered

Robotic

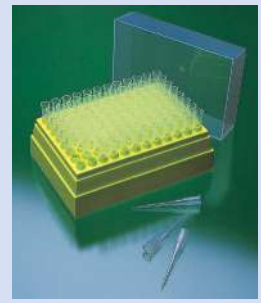
Fisherbrand® Lab Automation Pipet Tips

Disposable tips for robotic workstations—provide maximum performance, accuracy and reproducibility in laboratory automation procedures

Available in clear, blue tint, or carbon-black-conductive polypropylene. Carbon-black, liquid-level-sensing tips are required by many automated systems. They are constructed of a highly conductive material that is necessary to detect presence or absence of sufficient liquid, in order to avoid short sampling and excessive submersion of tip during aspiration.

Features

- Ideal for demanding HTS procedures
- Provide maximum performance, accuracy and reproducibility in lab automation procedures
- Engineered to ensure proper fit and function with several standard and customized automated liquid-handling systems
- Choose tips in an assortment of volume sizes and styles



02-707 Automated Series

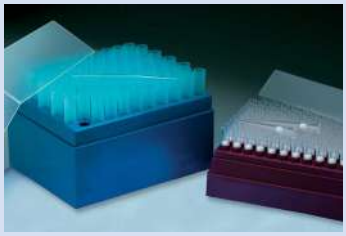
Nonfilter Tips

For Robotic Workstation	Volume	Color	Packaging	Cat. No.	Pack of	Case of
Beckman™ Biomek™ 1000/2000	1–20µL	Natural	10 racks of 96	**02-707-236**	960/66.70	5 Pk./289.00
	1–20µL	Natural	10 racks of 96, sterile	**02-707-237**	960/73.20	5 Pk./330.50
	5–250µL	Natural	10 racks of 96	**02-707-239**	960/64.70	5 Pk./289.00
	5–250µL	Natural	10 racks of 96, sterile	**02-707-240**	960/73.70	5 Pk./331.00
Beckman Multimek™ 96 Channel	50µL	Natural	10 racks of 96, sterile	**02-707-211**	960/37.72	5 Pk./188.60
	250µL	Blue Tint	10 racks of 96	**02-707-216**	960/74.90	5 Pk./319.00
	250µL	Blue Tint	10 racks of 96, sterile	**02-707-217**	960/77.20	5 Pk./332.00
BioTek™ Precision™, Tecan™ Te-MO, and Tecan GenMate™	50µL	Natural	10 racks of 96	**02-707-344**	960/52.70	5 Pk./224.50
	50µL	Natural	10 racks of 96, sterile	**02-707-345**	960/62.00	5 Pk./267.00
	100µL	Natural	10 racks of 96	**02-707-340**	960/53.90	5 Pk./225.50
	100µL	Natural	10 racks of 96, sterile	**02-707-341**	960/62.00	5 Pk./267.00
	200µL	Natural	10 racks of 96	**02-707-342**	960/54.70	5 Pk./233.00
	200µL	Natural	10 racks of 96, sterile	**02-707-343**	960/63.00	5 Pk./268.00
Packard™ MultiPROBE™ I	1000µL	Natural	Bulk pack	**02-707-271**	1000/53.75	10 Pk./453.39
Packard MultiPROBE I and II	20µL	Black	10 racks of 96, sterile	**02-707-274**	960/112.26	5 Pk./495.14
	250µL	Black	10 racks of 96, sterile	**02-707-276**	960/111.16	5 Pk./490.29
Qiagen™/Rosys™	300µL	Black	10 racks of 96, sterile	**02-707-286**	960/80.27	5 Pk./354.96
	1100µL	Natural	10 racks of 96	**02-707-283**	960/49.42	5 Pk./247.35

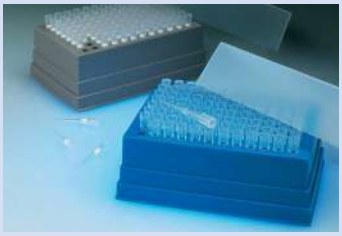
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Lab Automation Pipet Tips, Contd.



For Zymark™ Automated Workstations



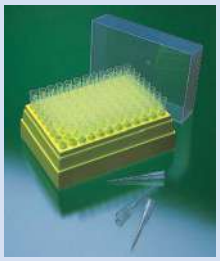
For Beckman™ Biomek™ 1000/2000

Nonfilter Tips, contd.

For Robotic Workstation	Volume	Color	Packaging	Cat. No.	Pack of	Case of
Tecan™ Genesis	20µL	Natural	10 racks of 96	**02-707-244**	960/120.00	5 Pk./539.50
	20µL	Black	10 racks of 96	**02-707-246**	960/190.60	5 Pk./828.50
	50µL	Natural	10 racks of 96	**02-707-249**	960/39.88	5 Pk./199.31
	50µL	Black	10 racks of 96	**02-707-251**	960/61.46	5 Pk./307.28
	200µL	Natural	10 racks of 96	**02-707-254**	960/120.00	5 Pk./540.50
	200µL	Natural	10 racks of 96, sterile	**02-707-255**	960/124.70	5 Pk./561.50
	5–200µL	Black	10 racks of 96	**02-707-256**	960/190.40	5 Pk./828.00
	1000µL	Natural	10 racks of 96	**02-707-259**	960/121.60	5 Pk./545.50
	1000µL	Natural	10 racks of 96, sterile	**02-707-260**	960/125.80	5 Pk./563.00
	1000µL	Black	10 racks of 96	**02-707-261**	960/160.80	5 Pk./695.50
	1000µL	Black	10 racks of 96, sterile	**02-707-262**	960/188.60	5 Pk./816.50
Zymark™ RapidPlate™ 96 and 96/384	100µL	Natural	10 racks of 96	**02-707-224**	960/74.20	5 Pk./310.00
	100µL	Natural	10 racks of 96, sterile	**02-707-225**	960/88.50	5 Pk./394.50
	200µL	Natural	Bulk pack	**02-707-218**	1000/59.57	10 Pk./508.98
	200µL	Natural	10 racks of 96	**02-707-219**	960/69.20	5 Pk./295.50
	200µL	Natural	10 racks of 96, sterile	**02-707-220**	960/86.70	5 Pk./380.97

Filter Tips

For robotic workstations



02-707 Series

For Robotic Workstation	Max. Capacity	Color	Packaging	Cat. No.	Pack of	Case of
Beckman™ Biomek™ 1000/2000	20µL	Natural	10 racks of 96, sterile	**02-707-241**	960/53.00	5 Pk./265.00
Beckman Multimek™ 96 Channel	250µL	Blue Tint	10 racks of 96	**02-707-212**	960/56.63	5 Pk./283.15
Qiagen™/Rosys™	300µL	Black	10 racks of 96, sterile	**02-707-291**	960/91.49	5 Pk./457.47
	1100µL	Black	10 racks of 96, sterile	**02-707-292**	4800/511.53	----
Tecan™ Genesis	50µL	Black	10 racks of 96, sterile	**02-707-268**	960/93.02	5 Pk./465.12
	200µL	Natural	10 racks of 96, sterile	**02-707-265**	960/194.80	5 Pk./899.50
	1000µL	Black	10 racks of 96, sterile	**02-707-270**	960/424.50	5 Pk./1853.00
Zymark™ RapidPlate™ 96 and 96/384	150µL	Natural	10 racks of 96, sterile	**02-707-228**	960/153.80	5 Pk./680.50

Thermo Scientific™ Automation Tips for Eppendorf™ epMotion™ Automated Pipetting System

Available in nonsterile, sterile or sterile filtered

- Available in nonsterile, sterile and sterile filtered
- Validated on actual workstation for which tip is created
- Low percentage Coefficient of Variation
- Sterile tips are certified free of RNase, DNase, DNA, endotoxin, bioburden and pyrogen

14-754 Series

Volume	Sterile	Filtered	Packaged as	Mfr. No.	Cat. No.	Pack of 960	Case of 4 Pk.
50µL	Yes	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	965-021	**14-754-201**	212.00	802.50
50µL	Yes	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	965-261	**14-754-202**	109.90	403.50
50µL	No	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	965-262	**14-754-203**	94.60	346.00
300µL	Yes	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	966-021	**14-754-204**	212.00	802.50
300µL	Yes	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	966-261	**14-754-205**	67.21	268.84
300µL	No	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	966-262	**14-754-206**	57.41	229.64
1,000µL	Yes	Yes	96 Tips/Rack, 10 Racks/Pack, 4 Packs/Case	967-021	**14-754-207**	212.00	802.50
1,000µL	Yes	No	96 Tips/Rack, 10 Racks/Pack, 4 Packs/Case	967-261	**14-754-208**	109.90	403.50
1,000µL	No	No	96 Tips/Rack, 10 Racks/Pack, 4 Packs/Case	967-262	**14-754-209**	94.60	346.00

Thermo Scientific™ Automation Tips for Beckman™ Liquid Handling Systems

Available in filtered, low retention or extended length for increased volume

- Available in non-sterile, sterile, low retention, extended length and with ART™ technology
- Lot-tested during production on actual workstation for which they are created
- Extended length tips compatible with 96-, 384- and 1536- deep well plates
- Low percentage Coefficient of Variation (%CV)

Automation Tips for Beckman™

Nonsterile

Volume	Features	Mfr. No.	Cat. No.	Pack of	Case of
20µL	----	918-262	**21402192**	960/95.40	5 Pk./417.50
20µL	----	918-262-05	**21402637**	960/120.10	5 Pk./529.00
50µL	----	916-262	**21402652**	960/90.50	5 Pk./400.50
50µL	----	916-262-05	**21402655**	960/115.40	5 Pk./520.00
250µL	Low Retention	919-262	**21402195**	960/95.00	5 Pk./412.00
250µL	----	919-262-05	**21402640**	960/115.50	5 Pk./519.00
250µL	Low Retention	919-262G	**14754325**	960/90.40	5 Pk./406.00
30µL	----	935-262	**21935262**	3840/946.50	5 Pk./4310.00
50µL	Low Retention	938-262	**14754462**	384/1016.40	5 Pk./4620.00
20µL	Extended Length; Low Retention	915-262	**21402326**	960/99.70	5 Pk./436.00
20µL	----	915-262-05	**21402643**	960/113.10	5 Pk./499.00
200µL	Low Retention	917-262	**21402329**	960/91.50	5 Pk./404.50
200µL	----	917-262-05	**21402646**	960/48.40	5 Pk./242.00
20µL	Low Retention	918-252	**21402521**	960/78.00	5 Pk./390.00
250µL	Liquid Sensing	919-252	**21402524**	960/166.20	5 Pk./733.50
50µL	Liquid Sensing	3762	**21402240**	960/122.30	5 Pk./543.06
10µL	----	912-262	**14754341**	960/50.61	5 Pk./253.05

Contd. on the next page.

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Prices subject to change.

Thermo Scientific™ Automation Tips for Beckman™ Liquid Handling Systems, Contd.

Sterile

Volume	Features	Mfr. No.	Cat. No.	Pack of	Case of 5 Pk.
8µL	ART filter	912-021	**14754342**	960/79.20	396.00
10µL	----	912-261	**14754340**	960/125.90	581.00
20µL	ART filter	918-021	**21402190**	960/173.40	763.00
20µL	----	918-261	**21402191**	960/111.30	492.00
20µL	Low Retention	918-261-05	**21402636**	960/11.24	56.20
50µL	----	916-261	**21402651**	960/105.00	480.50
130µL	ART filter	919-021	**21402193**	960/180.50	782.50
250µL	----	919-261	**21402194**	960/110.70	475.00
250µL	Low Retention	919-261-05	**21402639**	960/126.00	588.00
130µL	Genomic; Art filter	919-021G	**14754324**	960/167.70	777.50
250µL	Genomic	919-261G	**21402360**	960/102.74	454.60
25µL	ART filter	935-021	**14754375**	----	1020.80
30µL	----	935-261	**21935261**	3840/993.50	4550.00
50µL	Extended Length	938-261	**14754461**	384/570.00	2850.00
20µL	ART filter	915-021	**21402324**	960/181.50	794.50
20µL	----	915-261	**21402325**	960/102.83	453.91
130µL	ART filter	917-021	**21402327**	960/182.20	802.00
200µL	----	917-261	**21402328**	960/110.20	495.50
20µL	ART filter	918-011	**14754323**	960/254.54	1157.00
20µL	----	918-251	**21402520**	960/184.16	783.14
130µL	ART filter	919-011	**21402525**	960/121.56	607.80
50µL	ART filter	2760	**14754321**	960/197.70	898.50
175µL	ART filter	2790	**21402224**	960/202.00	898.50

Thermo Scientific™ Tips

Available in nonsterile, sterile and with ART™ filter technology and in low retention

- Lot-tested during production on actual workstation for which they are created
- Increased precision for the toughest multi-dispensing assays
- Low percentage Coefficient of Variation (%CV)

For PerkinElmer™/Packard™ MultiPROBE™ IIHT and HT EX, PlateTrak™, MiniTrak™ and Evolution P-3™ robotic Liquid Handling Systems

Tip Volume	Sterile	Packaged as	Mfr. No.	Cat. No.	Pack of	Case of
For use with PerkinElmer™/Packard™ PlateTrak™, MiniTrak™ and Evolution P-3™ Workstations						
20µL	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	925-261	**21402633**	960/141.90	5 Pk./641.00
20µL	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	925-262	**21402634**	960/51.67	5 Pk./258.36
50µL	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	927-261	**21402630**	960/123.50	5 Pk./569.00
50µL	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	927-261-05	**14754331**	10/135.32	5 Pk./615.07
50µL	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	927-262	**21402631**	960/127.90	5 Pk./592.50
235µL	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	929-261	**2140325**	960/118.50	5 Pk./548.00
235µL	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	929-262	**2140326**	960/129.84	5 Pk./590.19
For use with PerkinElmer™/Packard™ PlateTrak™, MiniTrak™ and Evolution P-3™ Workstations with a 384-well head						
30µL	Yes	384 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	931-261	**21931261**	3840/752.46	5 Pk./3422.15
30µL	No	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	931-262	**21931262**	3840/840.50	5 Pk./3750.00
20µL	Yes	96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case	931-021	**14754336**	960/854.50	5 Pk./3920.00

For Qiagen™ BioRobot™ 3000, 8000, 96000,9604 and Rosys™ and Colibri™ Universal Systems

Volume	Sterile	Color	Mfr. No.	Cat. No.	Pack of
250µL	Yes	Clear	951-021	**14-754-338**	960/152.77
300µL	Yes	Black	951-251	**21-402-352**	960/163.81
300µL	No	Black	951-252	**14-754-339**	960/146.40
1000µL	Yes	Black	953-011	**21-402-353**	960/207.00
1100µL	Yes	Black	953-251	**21-402-354**	960/169.40
1100µL	No	Clear	953-253	**21-402-229**	4800/599.00
1100µL	No	Clear	953-262	**21-402-236**	960/145.45

Contd. on the next page.

Thermo Scientific™ Tips, Contd.

For Tecan™ Genesis™, Freedom EVO™, MiniPrep™, Cavro™, Te-MO™ and Aquarius™ Liquid Handling Platforms

Volume	Sterile	Features	Color	Mfr. No.	Cat. No.	Pack of	Case of
Tecan™ Genesis™, Freedom Evo™, MiniPrep™ and Carvro™ Workstations							
10µL	Yes	Liquid Sensing, Filtered	Black	901-011	**21402322**	960/226.00	----
20µL	Yes	Liquid Sensing	Black	901-251	**21402318**	960/182.10	----
20µL	No	Liquid Sensing	Black	901-252	**21402314**	960/159.22	----
50µL	Yes	Liquid Sensing, Filtered	Black	902-011	**21402323**	960/215.12	----
50µL	Yes	Liquid Sensing	Black	902-251	**21402319**	960/178.51	----
50µL	No	Liquid Sensing	Black	902-252	**21402315**	960/168.00	----
50µL	No	Liquid Sensing, Econopak	Black	902-253	**21402187**	4800/645.50	----
175µL	Yes	Liquid Sensing, Filtered	Black	903-011	**21402320**	96/24.05	10 Pk./207.50
200µL	Yes	Liquid Sensing	Black	903-251	**21402316**	960/170.10	----
200µL	No	Liquid Sensing	Black	903-252	**21402312**	960/149.80	----
200µL	No	Liquid Sensing, Econopak	Black	903-253	**21402188**	4800/632.00	----
175µL	Yes	Genomic, Liquid Sensing, Filtered	Black	903-011G	**21402243**	960/207.01	----
200µL	Yes	Genomic, Liquid Sensing	Black	903-251G	**14754322**	10/158.80	----
200µL	No	Genomic, Liquid Sensing	Black	903-252G	**21402245**	960/163.50	----
1000µL	Yes	Liquid Sensing, Filtered	Black	904-011	**21402321**	960/212.00	----
1000µL	Yes	Liquid Sensing	Black	904-251	**21402317**	960/168.40	----
1000µL	No	Liquid Sensing	Black	904-252	**21402313**	960/160.70	----
1000µL	No	Liquid Sensing, Econopak	Black	904-253	**21402189**	4800/656.00	----
1000µL	Yes	Genomic, Liquid Sensing	Black	904-251G	**21402247**	960/169.40	----
1000µL	Yes	Genomic, Liquid Sensing, Filtered	Black	904-011G	**21402246**	960/217.00	----
10µL	Yes	Filtered	Clear	901-021	**21402330**	960/183.10	----
20µL	Yes	----	Clear	901-261	**21402331**	960/144.50	----
20µL	No	Liquid Sensing, Econopak	Clear	901-253	**21402186**	4800/649.50	----
50µL	Yes	Filtered	Clear	902-021	**21402333**	960/174.40	----
50µL	Yes	----	Clear	902-261	**21402335**	960/132.50	----
50µL	No	----	Clear	902-262	**21402334**	960/121.00	----
175µL	Yes	Filtered	Clear	903-021	**21402336**	960/173.90	----
200µL	Yes	----	Clear	903-261	**21402337**	960/138.20	----
200µL	No	----	Clear	903-262	**21402338**	960/128.60	----
1000µL	Yes	Filtered	Clear	904-021	**21402339**	960/173.90	----
1000µL	Yes	----	Clear	904-261	**21402340**	960/166.40	----
1000µL	No	----	Clear	904-262	**21402341**	960/151.01	----
Tecan™ Freedom Evo™ with LiHa Head, Tecan™Genesis™ with LiHa Head							
1000µL	No	Liquid Sensing, Econopak	Clear	904-013	**02681061**	4800/761.00	----
Tecan™ Freedom Evo™, Te-MO™ and Aquarius™ Workstations							
50µL	Yes	----	Clear	906-261	**21403426**	960/101.47	5 Pk./448.97
50µL	No	----	Clear	906-262	**21403427**	960/107.30	5 Pk./448.00
100µL	Yes	----	Clear	907-261	**21403429**	960/114.00	5 Pk./507.00
200µL	Yes	----	Clear	908-261	**21403432**	960/108.16	5 Pk./478.60
200µL	No	----	Clear	908-262	**21403433**	960/107.24	5 Pk./474.51

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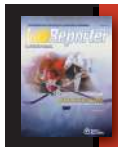

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Prices subject to change.

Thermo Scientific™ Tips, Contd.

For Zymark™ Caliper™ RapidPlate™ liquidhandler, Presto™ SciClone™ Allegro and Zephyr liquid handling workstations

Volume	Sterile	Mfr. No.	Cat. No.	Pack of	Case of 5 Pk.
50µL	Yes	920-021	**21-403-445**	960/68.84	344.19
50µL	Yes	920-261	**21-403-443**	960/91.10	399.00
50µL	No	920-262	**21-403-444**	960/36.91	184.49
150µL	Yes	923-021	**21-402-300**	960/164.70	733.00
200µL	Yes	923-261	**02-707-780**	4800/379.00	----
200µL	No	923-262	**21-402-302**	960/89.30	384.50
80µL	Yes	921-021	**14-754-326**	960/146.50	675.00
100µL	Yes	921-261	**21-402-304**	960/90.20	404.50
100µL	No	921-262	**21-402-305**	960/79.30	347.50

Thermo Scientific Automated Tips

Thermo Scientific™ PocketTip™ D.A.R.T.'S Tips

Offer low-volume transfer capability with existing Thermo Scientific™ Matrix automated liquid handling equipment

- Available in 96- and 384- channel format with 50, 100, and 250nL pocket sizes
- Require only minor procedural adjustments to PlateMate and Hydra DT instrumentation
- By transferring nanoliter volumes directly to assay plate, eliminate timely aqueous dilution steps that can cause precipitation and result in unreliable data
- Gently combine sample and assay materials with soft in-tip mixing, removing the need for offline procedures and improving data quality with thorough mixing that will not damage sensitive material
- With instrument compatibility range starting from the Matrix Hydra DT, on-the-fly dose response curves or assay development can be set up with simple Hydra DT programming
- Higher throughput needs can be met with the Matrix PlateMate 2 × 3 and Catalyst Express or Matrix PlateMate Plus instruments

Five Simple Steps

- 1. Source Plate: Sample is aspirated and pocket fills to capacity (50, 100 or 250nL)
- 2. Source Plate: Sample is dispensed back to vessel and pocket remains full
- 3. Wash Plate: The portion of the tip below the pocket is washed to eliminate carryover
- 4. Destination Plate: Sample/liquid in destination plate is aspirated to pocket level in the tip
- 5. Destination Plate: Sample from the pocket and destination plate are dispensed back to the destination plate

14-387 Series

Compatible with the following instruments:
Thermo Scientific Matrix PlateMate
Matrix Hydra DT
Catalyst Express
Matrix PlateMate Plus

Volume	Sterile	Mfr. No.	Cat. No.	Case of
50nL	No	5696-50	**14-387-585**	1920/372.04
50nL	Yes	5697-50	**14-387-588**	1920/449.04
100nL	No	5696-100	**14-387-583**	1920/278.26
100nL	Yes	5697-100	**14-387-586**	1920/449.04
250nL	No	5696-250	**14-387-584**	1920/372.04
250nL	Yes	5697-250	**14-387-587**	1920/336.01
50nL	No	5756-50	**14-387-591**	7680/1785.00
50nL	Yes	5757-50	**14-387-594**	7680/1657.00
100nL	No	5756-100	**14-387-589**	7680/1776.00
100nL	Yes	5757-100	**14-387-592**	7680/1658.04
250nL	No	5756-250	**14-387-590**	7680/1776.00
250nL	Yes	5757-250	**14-387-593**	7680/1657.00

Thermo Scientific™ D.A.R.T.'S™ (Disposable Automation Research Tips)

D.A.R.T.'S (Disposable Automation Research Tips) have been designed for the ultimate performance in automated pipetting

- Compatible with the Matrix Hydra DT and Matrix PlateMate 2 × 3 and PlateMate Plus Systems
- Stepped-body design minimizes volume displacement and ensures tip straightness for better well access
- Highly polished molds and cores ensure low liquid retention
- Small internal tip orifice provides better small volume droplet formation, resulting in optimal accuracy and precision
- Sterile, sterile filtered, wide-bore, and extended-length tip options available, offering the flexibility to choose tips for any application
- Thorough inspection for proper formation as well as straightness ensures tips are free of defects
- Unique face seal design ensures consistent tip-to-tip height for precise low volume dispensing
- Entire assembly can be quickly removed and replaced, eliminating extra handling of the tips which can cause damage or contamination

14-387 Series

INCLUDES:
20 magazines per case

Volume	Sterile	Style	Packaged as	Mfr. No.	Cat. No.	Case of
30µL	No	Extended length	20 magazines of 96 tips/case	5506-11	**14-387-675**	1920/241.50
30µL	Yes	Extended length	20 magazines of 96 tips/case	5507	**14-387-676**	1920/230.00
30µL	Yes	Extended length	20 magazines of 96 tips/case	5508	**14-387-683**	1920/360.50
300µL	No	Standard length	20 magazines of 96 tips/case	5516-11	**14-387-677**	1920/178.50
300µL	Yes	Standard length	20 magazines of 96 tips/case	5518-11	**14-387-694**	1920/312.50
300µL	No	Extended length	20 magazines of 96 tips/case	5536	**14-387-686**	1920/247.50
300µL	Yes	Extended length	20 magazines of 96 tips/case	5537	**14-387-687**	1920/267.50
300µL	Yes	Extended length	20 magazines of 96 tips/case	5538	**14-387-696**	1920/434.00
300µL	No	Extended length	20 magazines of 96 tips/case	5546	**14-387-684**	1920/245.00
300µL	Yes	Extended length	20 magazines of 96 tips/case	5547	**14-387-685**	1920/262.50
300µL	Yes	Extended length	20 magazines of 96 tips/case	5548	**14-387-695**	1920/427.50
30µL	No	Standard length	20 magazines of 96 tips/case	5586	**14-387-580**	1920/297.00
30µL	Yes	Standard length	20 magazines of 96 tips/case	5587	**14-387-581**	1920/319.50
30µL	Yes	Standard length	20 magazines of 96 tips/case	5588	**14-387-582**	1920/513.50
30µL	No	Standard length	20 magazines of 384 tips/case	5316	**14-387-673**	7680/1310.00
30µL	Yes	Standard length	20 magazines of 384 tips/case	5317	**14-387-674**	7680/1344.00
30µL	Yes	Standard length	20 magazines of 384 tips/case	5318	**14-387-693**	7680/1912.00
100µL	No	Standard length	20 magazines of 384 tips/case	5326	**14-387-664**	7680/1325.00
100µL	Yes	Standard length	20 magazines of 384 tips/case	5327	**14-387-665**	7680/1344.00
100µL	Yes	Standard length	20 magazines of 384 tips/case	5328	**14-387-690**	7680/1912.00
30µL	Yes	Extended length	20 magazines of 384 tips/case	5417	**14-387-689**	7680/1346.00
30µL	Yes	Extended length	20 magazines of 384 tips/case	5418	**14-387-697**	7680/1899.00
12.5µL	No	Standard length	10 magazines of 384 tips/case	5301	**14-387-667**	7680/666.00
12.5µL	Yes	Standard length	10 magazines of 384 tips/case	5302	**14-387-668**	7680/680.00
100µL	No	Standard length	10 magazines of 384 tips/case	5321	**14-387-666**	7680/658.80
100µL	Yes	Standard length	10 magazines of 384 tips/case	5322	**14-387-691**	7680/672.81
100µL	No	Standard length	20 magazines of 96 tips/case	5526	**14-387-699**	1920/251.50
100µL	Yes	Standard length	20 magazines of 96 tips/case	5528	**14-387-663**	1920/447.50

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Thermo Scientific™ Matrix™ SerialMate Pipet Tips

Enhance the performance of the Matrix SerialMate Pipetter

Volume	Packaging	Mfr. No.	Cat. No.	Case of
Tips				
30µL	Racks, 20 × 96	5571	**14-387-681**	1920/185.12
30µL	Racks, 20 × 96, Sterile	5572	**14-387-682**	1920/207.43
220µL	Racks, 20 × 96	5541	**14-387-669**	1920/164.08
220µL	Racks, 20 × 96, Sterile	5542	**14-387-670**	1920/176.29
Filter Tips				
220µL	Racks, 20 × 96, Sterile	5545	**14-387-692**	1920/246.50
Deep-Well Tips				
220µL	Racks, 20 × 96	5561	**14-387-671**	1920/168.50
384 Tips, Requires special aluminum tip magazine				
30µL	Racks, 10 × 384	5311	**14-387-679**	3840/659.32
30µL	Racks, 10 × 384, Sterile	5312	**14-387-680**	3840/665.00

Axygen™ Beckman™ Biomek™ 1000 and 2000 Robotic Tips

Maxymum Recovery™ reduces sample loss and improves reproducibility and accuracy

Robotic tips use unique diamond-polished molding technology use no mold-releasing agents. Tips minimize waste of precious samples and reagents. Nucleic acid, nuclease and endotoxin-safe for complete protection against contamination.

- Volume: 20 to 1000µL
- Tip color: Clear or blue (wide-bore tops only)
- Rack color: Grey and Black
- Available in Maxymum Recovery, Racked, Maxymum Recovery, Racked, Presterilized, Racked and Racked, Presterilized tip types

ORDERING INFORMATION:

- Rack: 96 tips/rack, 10 racks/pack, 5 packs/case
- Bulk Packed: 1000 tips/unit, 10 Units/case
- BT-1000 series
- Rack: 72 tips/rack, 5 racks/case

14-222-930

14-222-055

14-222-056

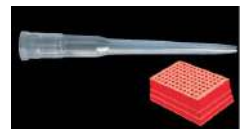
Volume	Tip Type	Rack Color	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
20µL							
20µL	Maxymum Recovery, clear	Grey	Racked	BT-20-L-R	**14-222-047**	----	4800/379.50
20µL	Maxymum Recovery, clear	Grey	Racked, Presterilized	BT-20-L-R-S	**14-222-048**	----	4800/389.50
20µL	Maxymum Recovery, Filter, clear	Grey	Racked, Presterilized	BTF-20-L-R-S	**14-222-058**	----	4800/644.50
20µL	Clear	Grey	Racked	BT-20-R	**14-222-049**	----	4800/336.50
20µL	Clear	Grey	Racked, Presterilized	BT-20-R-S	**14-222-050**	----	4800/375.50
20µL	Filter, clear	Grey	Racked, Presterilized	BTF-20-R-S	**14-222-059**	----	4800/630.00
50µL							
50µL	Maxymum Recovery, clear	Grey	Racked	BT-50-L-R	**14-222-930**	----	4800/394.00
50µL	Maxymum Recovery, clear	Grey	Racked, Presterilized	BT-50-L-R-S	**14-222-931**	----	4800/424.50
50µL	Clear	Grey	Racked	BT-50-R	**14-222-932**	----	4800/372.50
50µL	Clear	Grey	Racked, Presterilized	BT-50-R-S	**14-222-933**	----	4800/398.00
50µL	Maxymum Recovery, Filter, clear	Grey	Racked, Presterilized	BTF-50-L-R-S	**14-222-060**	----	4800/892.00
50µL	Filter, clear	Grey	Racked, Presterilized	BTF-50-R-S	**14-222-061**	----	4800/547.50
250µL							
250µL	Maxymum Recovery, clear	Black	Racked	BT-250-L-R	**14-222-051**	----	4800/394.00
250µL	Maxymum Recovery, clear	Black	Racked, Presterilized	BT-250-L-R-S	**14-222-052**	960/91.10	4800/389.50
165µL	Maxymum Recovery, Filter, clear	Black	Racked, Presterilized	BTF-180-L-R-S	**14-222-056**	----	4800/655.50
250µL	Clear	Black	Racked	BT-250-R	**14-222-053**	960/81.60	4800/348.50
250µL	Clear	Black	Racked, Presterilized	BT-250-R-S	**14-222-054**	----	4800/362.50
165µL	Filter, clear	Black	Racked, Presterilized	BTF-180-R-S	**14-222-057**	----	4800/640.00
1000µL							
1000µL	Clear	Black	Racked	BT-1000-R	**14-222-045**	----	360/89.70
1000µL	Clear	Black	Racked, Presterilized	BT-1000-R-S	**14-222-046**	----	360/114.50
1000µL	Filter, Clear	Black	Racked, Presterilized	BTF-1000-R-S	**14-222-055**	----	360/137.50

Axygen™ Beckman™ Biomek™ Wide-Bore Tips

Ideal for working with viscous materials, genomic DNA or delicate cell cultures

- Compatible with Biomek 1000 and 2000 series
- Volumes: 165µL or 250µL
- Tips color: blue
- Available in pre-sterilized or filtered and pre-sterilized formats

14-223-064


14-223-065

14-223-066

ORDERING INFORMATION:
Rack: 96 tips/rack, 10 racks/pack, 5 packs/case

Volume	Tip Type	Packaging	Mfr. No.	Cat. No.	Case of
250µL	Blue	Racked	BT-255-WB-R	**14-223-064**	4800/439.50
250µL	Blue	Racked, Presterilized	BT-255-WB-R-S	**14-223-065**	4800/455.00
165µL	Filter, Blue	Racked, Presterilized	BTF-165-WB-R-S	**14-223-066**	4800/812.00

Axygen™ Biomek™ FX/NX Robotic Tips

14-222-084

14-222-089

14-222-095

- Available in racked, racked sterile and with aerosol barrier (filtered)
- Compatible with Beckman Biomek FX and Beckman Multimek instruments with an AP96 head
- Also compatible with Span-8 pod when Liquid Level Sensing function is turned off
- Unsurpassed straightness to ensure tip enters the well smoothly, every time
- 384/1536-well compatible to meet your most demanding applications
- Wide bore tips are ideal for pipetting viscous materials, genomic DNA or delicate cell cultures
- Fine Point improves accuracy and precision at lower sample volumes
- Maxymum Recovery™ tips reduce sample loss, improves reproducibility and accuracy, minimizes usage of precious samples and reagents

Description	Mfr. No.	Cat. No.	Pack of	Case of
Beckman FX Tip, 10µL	FX-10-R	**14-222-084**	----	4800/339.00
384 well, low volume, 1536 compatible	FX-1536-30FP-R	**14-222-086**	----	19,200/3500.00
40µL Clear Extra-Long Pipette Tips	FX-384-45FP-R	**14-223-075**	----	19,200/3500.00
384 well, 45µL, Fine point, Presterilized, Racked	FX-384-45FP-R-S	**14-223-076**	----	19,200/3500.00
384 well, 45µL, Fine point, Filtered, Presterilized, Racked	FXF-384-45FP-R-S	**14-223-305**	----	19,200/3500.00
96 well, 20µL, Maxymum Recovery	FX-20-L-R	**14-222-088**	----	4800/379.00
96 well, 20µL, standard polypropylene	FX-20-R	**14-222-090**	960/75.40	5 Pk./331.00
96 well, 250µL, Maxymum Recovery	FX-250-L-R	**14-222-092**	960/84.80	5 Pk./375.00
96 well, 250µL, standard polypropylene	FX-250-R	**14-222-094**	960/79.30	5 Pk./339.00
384 well, 30µL, Maxymum Recovery	FX-384-L-R	**14-222-100**	----	19,200/3880.00
384 well, 30µL, standard polypropylene	FX-384-R	**14-222-102**	3840/857.00	5 Pk./3760.00
96 well, 50µL, standard polypropylene	FX-50-L-R	**14-222-108**	960/83.70	5 Pk./370.00
96 well, 50µL, standard polypropylene	FX-50-R	**14-222-110**	960/69.70	5 Pk./313.00
384 well, 50µL, Maxymum Recovery, extended	FX-384-XL-L-R	**14-222-104**	----	19,200/3950.00
384 well, 50µL, standard polypropylene, extended	FX-384-XL-R	**14-222-106**	3840/553.11	5 Pk./1765.56

Axygen™ FDSS™ Robotic Tips

For Hamamatsu FDSS series systems

- For 384-Well plates
- Tip color: Black
- Capacity: 50µL
- Packaging: 384 Tips/rack; 10 Racks/unit; 5 Units/Cs.

Capacity	For	Mfr. No.	Cat. No.	Case of 19,200
50µL	Hamamatsu FDSS 6000 Systems	FDSS-384-BK-R	**14-222-081**	3910.00
50µL	Hamamatsu FDSS 7000 Systems	FDSS-1536-BK-R	**14-223-303**	4100.00

Axygen™ MLA-Compatible Pipet Tips

Compatible with MLA systems

- Available in sterile/nonsterile formats
- Capacity: 200µL
- Packaging: 96 Tips/Rack; 10 Racks/Unit; 5 Units/Cs.

Description	Mfr. No.	Cat. No.	Case of 4800
Capacity: 200µL; Racked	MLA-200-R	**14-223-308**	383.00
Capacity: 200µL; Pre-sterilized; Racked	MLA-200-R-S	**14-223-309**	420.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Axygen™ FLIPR™ Liberty Robotic Tips

Accurate sample delivery

- Available in clear and black
- Volume: 30µL
- Available as racked or racked and pre-sterilized
- For use with Molecular Devices Liberty head
- Packaging: 384 Tips/rack; 10 Racks/unit; 5 Units/Cs.

CERTIFICATIONS: Certified RNase-, DNase- and endotoxin-safe

14-222-139

14-223-307

14-222-140

Tip Color	Packaging	Mfr. No.	Cat. No.	Pack of	Case of
Black	Racked	LT-384-BK-R	**14-222-139**	----	19,200/3230.00
Clear	Racked	LT-384-R	**14-222-140**	3840/739.00	5 Pk./3320.00
Clear	Racked; Presterilized	LT-384-R-S	**14-223-307**	----	19,260/4962.50

Axygen™ Multimek Robotic Tips

Fits Multimek 'Type II' or CCS-style head

Robotic tips unique diamond-polished molding technology use no mold-releasing agents. Minimizes wastage of precious samples and reagents while handling. Nucleic acid, nuclease and endotoxin-safe for complete protection against contamination.

14-222-936

14-222-938

14-222-939

- Tip volume: 50 and 200µL
- Tip color: Clear
- Rack color: Red and blue

ORDERING INFORMATION:
Racked: 96 tips/rack, 10 racks/pack, 5 packs/case.

Volume	Description	Rack color	Mfr. No.	Cat. No.	Pack of	Case of
50µL	Maxymum Recovery, Racked; Presterilized	Red	MT-50-L-R-S	**14-222-194**	960/49.24	5 Pk./246.16
50µL	Maxymum Recovery, Racked	Red	MT-50-L-R	**14-222-938**	----	4800/558.13
30µL	Maxymum Recovery, Filter, Racked, Presterilized	Red	MTF-50-L-R-S	**14-222-941**	----	4800/925.62
50µL	Racked	Red	MT-50-R	**14-222-195**	----	4800/515.01
50µL	Racked, Presterilized	Red	MT-50-R-S	**14-223-310**	----	4800/515.01
30µL	Filter, Racked, Presterilized	Red	MTF-50-R-S	**14-222-942**	----	4800/945.63
200µL	Maxymum Recovery, Racked	Blue	MT-200-L-R	**14-222-936**	----	4800/428.76
200µL	Maxymum Recovery, Racked, Presterilized	Blue	MT-200-L-R-S	**14-222-192**	----	4800/566.50
180µL	Maxymum Recovery, Filter, Racked, Presterilized	Blue	MTF-200-L-R-S	**14-222-939**	----	4800/996.26
200µL	Racked	Blue	MT-200-R	**14-222-193**	960/91.30	5 Pk./396.50
200µL	Racked, Presterilized	Blue	MT-200-R-S	**14-222-937**	----	4800/558.74
180µL	Filter, Racked, Presterilized	Blue	MTF-200-R-S	**14-222-940**	----	4800/833.13

Axygen™ Multimek Type II Robotic Tips

Robbins-style tips for Beckman Multimek 'Type II'

- Presterilized tips are exposed to e-beam radiation for complete security without degrading the plastic or performance
- Volume range: 200µL
- Available in racked and racked sterile formats
- Packaging: 96 tips/rack, 10 racks/pack, 5 packs/case

14-222-958

14-222-959

Packaging	Mfr. No.	Cat. No.	Case of 4800
Racked	RMT-200-C-R	**14-222-958**	460.62
Racked, Presterilized	RMT-200-C-R-S	**14-222-959**	484.38

Axygen™ Oasis™ Robotic Tips

For use with Oasis automated liquid handling systems

Tip volume: 50 to 200µL

- Tip color: Clear
- 96 Tips/rack; 10 Racks/unit; 5 Units/Cs.

14-223-312

Volume	Description	Mfr. No.	Cat. No.	Pack of	Case of
200µL	Racked; For Oasis automated liquid handling system	OT-200-R	**14-222-221**	960/115.18	5 Pk./523.56
50µL	Racked; For Oasis automated liquid handling system	OT-50-R	**14-222-222**	960/115.18	5 Pk./523.56
50µL	Filtered; Racked; For Oasis automated liquid handling system w/paper band	OTF-50-R-PB	**14-222-220**	960/140.30	5 Pk./634.50
100µL	Racked; For Oasis automated liquid handling system	OT-100-R	**14-223-312**	----	4800/523.56
100µL	Filtered; Racked; For Oasis automated liquid handling system w/paper band	OTF-100-R-PB	**14-221-901**	960/142.62	5 Pk./631.06
180µL	Filtered; Racked; For Oasis automated liquid handling system w/paper band	OTF-180-R-PB	**14-222-223**	960/144.50	5 Pk./653.50

Axygen™ PerkinElmer™/Packard Robotic Tips

Ideal for MiniTrak, PlateTrak and Evolution P-3

Robotic tips uses no mold-releasing agents. Nucleic acid, nuclease and endotoxin-safe for complete protection against contamination.

- Tip volume: 20 to 200µL
- Tip color: clear
- Rack color: green
- Available in Maxymum Recovery™ and Wide Bore tip types

PKF-205-WB series:

- Wide bore with or without filter
- Used for working with viscous materials, genomic DNA or delicate cell cultures

ORDERING INFORMATION: Rack: 96 Tips/Rack, 10 Racks/Pack, 5 Packs/Case

COMPLIANCE: Axygen products are manufactured in a clean, controlled "state of the art" facility and certified RNase-, DNase- and endotoxin-safe

Volume	Description	Mfr. No.	Cat. No.	Case of 4800
200µL	For Packard's Plate Track	PK-200-BK-R	**14-223-201**	118.66
200µL	Wide Bore, Racked	PK-205-WB-R	**14-222-953**	565.98
200µL	Wide Bore, Racked, Presterilized	PK-205-WB-R-S	**14-222-954**	648.27
200µL	Filter, Wide Bore, Racked, Presterilized	PKF-205-WB-R-S	**14-222-955**	1168.64

Axygen™ PerkinElmer™ Compatible Tips

14-223-067

- DNAse-Free, RNAse-Free, Pyrogen-Safe
- 384-Tip format for MDT 384-30µL head
- Clear polypropylene
- Sterile
- With Aerosol-Resistant Filters
- Packaging: 384 tips/rack, 10 racks/pk, 5 packs/case

Tip Volume	Tip Type	Compatible Head	Cat. No.	Mfr. No.	Case of
30µL	Filtered	MDT-384 30µL	**14-223-067**	PKF-384-R-S	19,200/5021.25

Axygen™ Robotic Pipetter Tips

Compatible with Hamilton MICROLAB™ STAR and Nimbus workstations

The conductive, liquid level sensing tips are available in four sizes and specially designed for use with Hamilton liquid handling platforms. They enable precision pipetting across a wide range of applications.

- Sizes: 10, 50, 300 and 1000µL
- Sterile or nonsterile; filter tip also available
- Packaging options include hanging tip rack, traditional deck-seating rack or nested/stacked format
- Fully field automated; manufactured under strict process control
- 100% automated assembly to ensure consistent performance and quality
- Hanging Tip Rack: fits Hamilton STAR, STARlet™ and STARplus™
- Deck-seating Rack: for MICROLAB STAR Series and Hamilton Nimbus

Axygen Robotic Pipetter Tips

Volume	Type	Packaging	Mfr. No.	Cat. No.	Case of
Hanging Tip Rack					
10µL	Nonsterile	96 tips/rack, 24 racks/cs.	HT-10-CBK-HTR	**14-223-701**	2304/238.00
10µL	Sterile	96 tips/rack, 24 racks/cs.	HT-10-CBK-HTR-S	**14-223-702**	2304/269.00
10µL	Sterile, Filter Tip	96 tips/rack, 24 racks/cs.	HTF-10-CBK-HTR-S	**14-223-703**	2304/305.50
50µL	Nonsterile	96 tips/rack, 24 racks/cs.	HT-50-CBK-HTR	**14-223-704**	2304/246.50
50µL	Sterile	96 tips/rack, 24 racks/cs.	HT-50-CBK-HTR-S	**14-223-705**	2304/259.50
50µL	Sterile, Filter Tip	96 tips/rack, 24 racks/cs.	HTF-50-CBK-HTR-S	**14-223-706**	2304/316.50
300µL	Nonsterile	96 tips/rack, 24 racks/cs.	HT-300-CBK-HTR	**14-223-707**	2304/246.50
300µL	Sterile	96 tips/rack, 24 racks/cs.	HT-300-CBK-HTR-S	**14-223-708**	2304/259.50
300µL	Sterile, Filter Tip	96 tips/rack, 24 racks/cs.	HTF-300-CBK-HTR-S	**14-223-709**	2304/316.50
1000µL	Nonsterile	96 tips/rack, 16 racks/cs.	HT-1000-CBK-HTR	**14-223-710**	1536/158.10
1000µL	Sterile	96 tips/rack, 16 racks/cs.	HT-1000-CBK-HTR-S	**14-223-711**	1536/179.60
1000µL	Sterile, Filter Tip	96 tips/rack, 16 racks/cs.	HTF-1000-CBK-HTR-S	**14-223-712**	1536/212.00
Deck-Seating Rack and Nested/Stacked Racks					
10µL	Nonsterile	96 tips/rack, 4 racks/stack, 30 stacks/cs.	HT-10-CBK-STK	**14-223-714**	11,520/1205.00
50µL	Nonsterile	96 tips/rack, 4 racks/stack, 30 stacks/cs.	HT-50-CBK-STK	**14-223-718**	11,520/1248.00
1000µL	Nonsterile	96 tips/rack, 4 racks/stack, 30 stacks/cs.	HT-300-CBK-STK	**14-223-722**	11,520/1205.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Presses

Carver™ Lab Presses

Range of automatic or manual models; clamping force up to 25 tons

Manual Pellet Press

- 12-ton clamping force unit with 4" (10.2cm) dia. platen
- Ideal for KBr pellet pressing, glove box applications and onsite field testing
- Includes integral safety shield, buffer plates, 13mm evacuable die and counter-bored platen for positive die alignment

Self-Contained, Hand-Operated Press

- 6 × 6" (15.2 × 15.2cm) work area and integral safety shield
- Dual-scale gauge calibrated in metric tons and pounds
- Adaptable for use in pressing oils, separating liquids from solids, filtering, plastic molding, compression and crush testing

ORDERING INFORMATION:
Manual Pellet Press: Dimensions:
8L × 10.25W × 20.25"H (20.3 × 26 × 51.4cm). Weight: 115 lb. (52kg).
Self-Contained, Hand-Operated Press: Dimensions:
16L × 15W × 36"H (40.6 × 38.1 × 91.4cm). Weight: 200 lb. (91kg).

Accessory cage equipment, heated platens, plate and cloth equipment and swivel bearing plates are available. Contact your Fisher Scientific Customer Service Representative or visit www.fishersci.com for details.

13-872

ON THE WEB...

Looking for more lab presses?

Visit www.fishersci.com and search for Lab Presses

Lab Press	Electrical Requirements	Force	Mfr. No.	Cat. No.	Each
Manual Pellet	N/A	12 tons	4350	**13-872-45**	3680.00
Self-contained, Hand-operated	N/A	12 tons	3851	**13-872**	3760.00

THINK GREEN

How Fisher Scientific Thinks Green

PROTECTING AND PRESERVING THE ENVIRONMENT
Learn how Fisher Scientific helps customers and suppliers protect and preserve the environment by visiting **www.fishersci.com/thinkgreen**.

results delivering solutions

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Protein Research

Mass Spec Reagents

Thermo Scientific™ Pierce™ Cysteine-Reactive Tandem Mass Tag Reagents

For protein expression analysis of sulfhydryl components by mass spectrometry

Tandem Mass Tag™ (TMT™) Reagents enable concurrent identification and multiplexed quantitation of proteins in different samples using tandem mass spectrometry. The iodoTMT™ Reagents are sets of isobaric (mass and structure) isomers that are iodoacetyl-activated for covalent, irreversible labeling of sulfhydryl (–SH) groups. Similar to iodoacetamide, iodoTMT Reagents react specifically with reduced cysteines (Cys) in peptides and proteins. IodoTMT Reagents can be differentiated by mass spectrometry (MS), enabling quantitation of the relative abundance of cysteine modifications, such as S-nitrosylation, oxidation and disulfide bonds, in cultured cells grown or treated with different conditions.

Highlights:

- Specific – only reacts with sulfhydryl groups (reduced, unmodified cysteine residues)
- Irreversible – labeled proteins and peptides are not susceptible to reducing agents
- Flexible – options for duplex isotopic (MS) or sixplex isobaric (MS/MS) quantitation
- Versatile – can be used to study cysteine modifications (e.g. di-sulfide bridges, S-nitrosylation)

NOTES:
IodoTMT Products replace our previously offered CysTMT Reagents, which utilized a dithiopyridine reactive group to reversibly label cysteine sulfhydryls.

Item Name	Quantity	Sufficient For	Kit Contains Formulation	Cat No.	Each
iodoTMTzero Label Reagent, 5 × 0.2mg	5-rxn set	Controls in 5 experiments	Set of -126 to -128 iodoTMT0 label reagent	**PI90100**	163.53
iodoTMTsixplex Label Reagent Set, 1 × 0.2mg	6-rxn set	1 sixplex (1 × 6-way) experiment	Set of -126 to -131 iodoTMT6 label reagents	**PI90101**	542.27
iodoTMTsixplex Label Reagent Set, 5 × 0.2mg	30-rxn set	5 sixplex (5 × 6-way) experiments	Set of -126 to -131 iodoTMT6 label reagents	**PI90102**	1962.30
iodoTMTsixplex Isobaric Mass Tag Labeling Kit	30-rxn kit	5 complete sixplex (5 × 6-way) experiments	Multi-component kit with -126 to -131 iodoTMT6 label reagents	**PI90103**	2162.75

MS Standards

Thermo Scientific™ Pierce™ Peptide Retention Time Calibration Mixture

Heavy peptide mixture for column assessment and peptide retention time prediction

Highlights:

- Assessment of chromatography and MS instrument performance
- Prediction of peptide retention across multiple instrument platforms
- Prediction of peptide retention time from sequence using calculated hydrophobicity factor
- Optimization of scheduled MS acquisition windows for improved quantification and increased multiplexing
- Internal standard to normalize for variation in retention times and peak intensities between runs

Item Name	Quantity	Sufficient For	Cat. No.	Each
Thermo Scientific Pierce Peptide Retention Time Calibration Mixture	200µL	200 to 4000 uses	**PI-88321**	462.09
Thermo Scientific Peptide Retention Time Calibration Mixture	50µL	5 to 100 uses	**PI-88320**	70.69

Thermo Scientific™ Pierce™ LTQ ESI Positive Ion Calibration Solution

Ready made positive ion calibration solution for LTQ series mass spectrometers

Highlights:

- Strong peaks – mixture of caffeine, MRFA and Ultramark 1621 in a acetonitrile/methanol/acetic solution
- Ready-to-use – load the mass reference standard into a syringe and inject into the instrument
- High-purity – mass spectrometry grade reagents in a non-leachable container
- Stable – store at room temperature for more than one year

Pierce LTQ ESI Positive Ion Calibration Solution, 10mL

Item Name	Quantity	Sufficient For	Cat. No.	Each
Pierce LTQ ESI Positive Ion Calibration Solution	10mL	10 to 20 calibrations	**PI-88322**	179.35

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Pierce™ ESI Negative Ion Calibration Solution

Ready made negative ion calibration solution for LTQ series mass spectrometers

Highlights:

- Strong peaks – mixture of SDS, sodium taurocholate and Ultramark 1621 in a acetonitrile/methanol/acetic solution
- Ready-to-use – load the mass reference standard into a syringe and inject into the instrument
- High-purity – mass spectrometry grade reagents in a non-leachable container
- Stable – store at room temperature for more than one year

Item Name	Quantity	Sufficient For	Cat. No.	Each
Pierce ESI Negative Ion Calibration Solution	10mL	10 to 20 calibrations	**PI-88324**	179.35

Thermo Scientific™ Pierce™ Triple Quadrupole Calibration Solution

Ready made calibration solution for Triple Stage Quadrupole Mass Spectrometers

Highlights

- Strong peaks — mixture of three tyrosine isotopes in methanol/formic acid solution
- Ready-to-use — load the reference standard into a syringe and inject into the instrument
- High-purity — mass spectrometry grade reagents in a a non-leachable container
- Stable — store at 2° to 8°C for more than one year

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Pierce Triple Quadrupole Calibration Solution	10mL	10 to 20 calibrations	Solution of 25µM Tyr1, 25µM Tyr3, 25µM Tyr6	**PI-88325**	179.35

Thermo Scientific™ Pierce™ Reserpine Standard for LC-MS

Formulated and packaged standard for assessing performance of mass spectrometry instruments

Highlights:

- Convenient – provided pre-diluted and requires minimal additional dilutions to reach target concentration for injection
- Safe handling – unlike glass ampules, cap can be easily removed and replaced when withdrawing solution
- High-purity – mass spectrometry grade reagent in a non-leachable screw-cap vials
- Stable – store at 4°C for up to one year

Item Name	Quantity	Sufficient For	Formulation	Cat No.	Each
Pierce Reserpine Standard for LC-MS	5 × 1mL	5 to 500 injections	100pg/µL reserpine in 50% isopropanol	**PI88326**	104.45

Protein Desalting

Desalting Columns

GE™ Healthcare Disposable PD-10 Desalting Columns

Fast, high-recovery desalting and buffer exchange, as well as removal of low-molecular weight compounds

- Packed with Sephadex™ G-25 medium
- Designed for ease of use and equilibration
- Prepare samples in range of 1.0 to 2.5mL by gravity flow or 1.75 to 2.5mL by centrifugation
- Desalt multiple samples in parallel with desalting capacity >90%
- Sample recovery in range of 70 to >95%
- Includes adapters for centrifugation

45-000-148 includes stand. Does not include reservoir shown.

Kit Contents	Mfr. No.	Cat. No.	Each
Columns, 30; Adapters for centrifugation, 4	17-0851-01	**45-000-148**	282.45
Empty PD-10 columns, 50	17-0435-01	**45-000-067**	194.74

Thermo Scientific™ Pierce™ Polyacrylamide Desalting Columns

Eliminate the possibility of enzymatic degradation and microbial growth

Polyacrylamide Desalting Columns are pre-packed with porous polyacrylamide beads that have either a 2K or a 6/7K molecular-weight cutoff (MWCO) exclusion limit. The three different sizes of pre-packed columns are appropriate for processing samples ranging from 30µL to 2.5mL. The larger columns are designed to desalt biological samples by gravity-flow; the small spin columns (7K MWCO only) are designed for use with a microcentrifuge. Unlike dextran, cellulose and other polysaccharide-based gel-filtration resins, beaded polyacrylamide resin is not subject to enzymatic degradation and will not serve as a nutrient for microbial growth. The resin is very hydrophilic, and this property minimizes the possibility of nonspecific binding and problematic interactions with typical aqueous sample components. Oxidizing agents and hydrazide can be processed without chemical interaction with the support. However, the resin is susceptible to hydrolysis of amide groups when heated under extreme pH conditions. The resin can be autoclaved at near-neutral conditions.

Polyacrylamide Desalting Columns, 6K MWCO, 5mL

Highlights:

- Formats: pre-packed 5mL and 10mL gravity-flow columns (1.8K and 6K MWCO only) and 0.7mL microcentrifuge columns (7K MWCO only)
- Resin type: porous, beaded polyacrylamide
- Bead size: 90 to 180µm dia. (6K and 7K resins); 45 to 90µm dia. (1.8K resin)
- Flow rate: up to 2.5mL/min (fast compared to other desalting resins)
- Chemical stability: compatible with water, salt solutions, many organic solvents and alkaline or acidic conditions
- Mechanical stability: medium rigidity compared to other gel-filtration resins
- Heat stability: resin is autoclavable dry or in solution at a neutral pH for 30 minutes at 120°C without affecting its chromatographic properties

APPLICATIONS:
Removing salts from protein solutions; Separating excess crosslinker from conjugate preparations; Removing excess derivatizing agents from modified proteins; Removing unreacted dye from fluorescent antibodies; Removing free radiolabel from labeled proteins; Exchanging one buffer for another

INCLUDES:
Pre-packed columns with top and bottom caps

Item Name	Quantity	Cat. No.	Each
Polyacrylamide Desalting Columns, 6K MWCO, 10mL	5 columns	**PI-43243**	125.55
Polyacrylamide Desalting Columns, 1.8K MWCO, 5mL	5 columns	**PI-43426**	142.43
Polyacrylamide Spin Desalting Columns, 7K MWCO, 0.7mL	25 columns	**PI-89849**	152.98

For more options, see www.fishersci.com

Thermo Scientific™ Zeba™ Spin Desalting Columns, 7K MWCO

Quickly remove salts and small molecules from protein samples

These specially designed polypropylene centrifuge columns are pre-packed with high-performance Zeba Desalting Resin to facilitate rapid protein desalting with high recovery. The resin effectively traps salts and other small sample components but does not impede proteins and other macromolecules, which pass directly into the centrifuge collection tube. These particular columns use Zeba Resin having a molecular-weight cutoff (MWCO) rating equal to 7K; this ensures that proteins larger than 7000 MW will be recovered with high efficiency.

Zeba Spin Desalting Columns, 7K MWCO, 10mL

Highlights:

- Fast centrifuge format – resin and columns are optimized for rapid processing by centrifugation with standard collection tubes and rotors
- Replaces drip-column methods – no need to collect and screen slowly emerging protein fractions
- Exceptional protein yields – recover greater than 95% in typical applications with minimal dilution
- Five convenient sizes – columns with 75µL to 10mL of Zeba Resin provide desalting matched for sample volumes between 2µL and 4mL
- 7K MWCO – resin is rated to recover proteins larger than 7000 daltons and retain (remove) solutes smaller than 1000 MW

REQUIRES: Microcentrifuge and microcentrifuge collection tubes (for 75µL and 0.5mL columns) or centrifuge and collection tubes (15mL tubes for 2 and 5mL columns; 50mL tubes for 10mL columns)

Item Name	Quantity	Sufficient For	Cat. No.	Each
Zeba Micro Spin Desalting Columns, 7K MWCO, 75µL	25 columns	25 samples, each 2µL to 12µL	**PI-89877**	132.93
Zeba Spin Desalting Columns, 7K MWCO, 0.5mL	25 columns	25 samples, each 30µL to 130µL	**PI-89882**	121.33
Zeba Spin Desalting Columns, 7K MWCO, 2mL	5 columns	5 samples, each 200µL to 700µL	**PI-89889**	49.59
Zeba Spin Desalting Columns, 7K MWCO, 5mL	5 columns	5 samples, each 500 to 2000µL	**PI-89891**	63.30
Zeba Spin Desalting Columns, 7K MWCO, 5mL	25 columns	25 samples, each 500 to 2000µL	**PI-89892**	281.69
Zeba Spin Desalting Columns, 7K MWCO, 10mL	25 columns	25 samples, each 700µL to 4mL	**PI-89894**	340.77

For more options, please see www.fishersci.com

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Desalting Tips

EMD Millipore™ ZipTip™ Pipet Tips

Sample preparation and precise liquid handling in one device

A 0.6µL bed of C_{18}, C_4, or SCX (strong cation exchange) media is fixed at the end of a 10µL pipet tip such that there is no dead volume; concentrated, purified samples are eluted in 1 to 4µL. For applications requiring smaller elution volumes (e.g., <1µL), ZipTip µ-C_{18} tips feature a microbed format containing 0.2µL of media.

- Concentrate and purify 1–100µL biological samples
- Ideal for purifying and concentrating femtomoles to picomoles of peptides, proteins, or oligonucleotides in minutes prior to mass spectrometry, HPLC, capillary electrophoresis, and other analytical techniques

Resin	Application
C_{18}/µ-C_{18}	Desalting and concentration of peptides, proteins, or oligonucleotides. Step-fractionation of complex peptide or protein mixtures for increased MALDI-TOF MS sensitivity and resolution.
C_4	Desalting and concentration of proteins
SCX	Dilute peptide capture and nonionic detergent removal
Pipetter Compatibility	
Compatible with most single-channel and multichannel pipetters and with a variety of automated liquid-handling systems	

ORDERING INFORMATION:
Available in two packaging configurations: resealable trays (packs of 8 and 24 tips) and 96-place tip racks (packs of 96 and packs of 960 tips)

	Pack of 8		Pack of 96		Pack of 960	
Resin	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
C_{18}	**ZTC1 8S0 08**	41.30	**ZTC1 8S0 96**	270.63	**ZTC1 8S9 60**	1987.00
µ-C_{18}	**ZTC1 8M0 08**	41.30	**ZTC1 8M0 96**	278.50	**ZTC1 8M9 60**	1875.00
C_4	**ZTC0 4S0 08**	40.00	**ZTC0 4S0 96**	278.50	**ZTC0 4S9 60**	1875.00
SCX	**ZTSC XS0 08**	43.20	**ZTSC XS0 96**	294.50	----	---

Protein Detection

Blocking Buffer

Thermo Scientific™ Blocking Buffers

StartingBlock™ Blocking Buffers

Simplify the selection of a blocker for Western blot and ELISA applications

Highlights:

- Compatible with many detection systems – Western blot, ELISA and IHC with antibody or avidin/biotin probes (blocker is serum and biotin-free)
- Short blocking times – less than 15 minutes for nitrocellulose or PVDF membranes, almost instantaneous for polystyrene microplate wells
- Strip and reprobe without reblocking – blots stay blocked even after stripping with Thermo Scientific Restore Stripping Buffer (Part No. 21059)
- High signal:noise ratio – biotin- and serum protein-free formulation contributes to acheiving signal-to-noise ratios from 10:1 to 20:1
- Convenient formats – available ready-to-use 1X formulations in PBS and TBS, with and without Tween™-20 detergent

STORAGE: Store at 4°C.

SuperBlock™ Blocking Buffers

A biotin- and serum-free blocking buffer with excellent stabilizing properties

Blocking microplates, membranes or tissues with a SuperBlock Buffer yields a high signal-to-noise ratio in most detection systems. The protein-based formulation does not contain any immunoglobulins, albumin or endogenous biotin, making it compatible in many situations where traditional blocking agents fail. The buffer is especially effective at blocking coated polystyrene microplates (96-well plates) and stabilizing them for drying and storage for later use.

Highlights:

- Fast – block membranes in 5 to 10 minutes and ELISA plates in 2 minutes
- Flexible – guaranteed to be biotin-free for use with streptavidin system
- Convenience – available in multiple buffer formats (in PBS or TBS with or without Tween™-20 detergent) and package sizes (1L, 5L and dry-blend pouches)
- Low background – the non-serum protein solution yields a high signal-to-noise ratio
- Stable – store buffer at 4°C for one year; store blocked plates dry for up to 12 months

Item Name	Quantity	Sufficient For	Cat No.	Each
StartingBlock Blocking Buffer				
StartingBlock (PBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**PI37538**	174.08
StartingBlock T20 (PBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**EN37539**	185.68
StartingBlock (TBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**PI37542**	174.08
StartingBlock T20 (TBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**EN37543**	185.68
SuperBlock Blocking Buffer				
SuperBlock (PBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**PI-37515**	169.86
SuperBlock T20 (PBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**PI-37516**	185.68
SuperBlock (PBS) Blocking Buffer for Blotting	1L	30 blots or microplates at 30mL each	**PI-37517**	154.03
SuperBlock (TBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**PI-37535**	169.86
SuperBlock T20 (TBS) Blocking Buffer	1L	30 blots or microplates at 30mL each	**PI-37536**	185.68
SuperBlock (TBS) Blocking Buffer for Blotting	1L	30 blots or microplates at 30mL each	**PI-37537**	154.03
SuperBlock (TBS) Blocking Buffer Dry Blend	5 packs	200mL (approx. 7 blots or microplates) per pack	**PI-37545**	137.15

Thermo Scientific offers a complete menu of blocking buffers and sizes. For a complete menu, please see www.fishersci.com

StartingBlock and SuperBlock (PBS) Blocking Buffer, 1L

Stripping Buffer

Thermo Scientific™ Restore™ Western Blot Stripping Buffer

Strip time off your research safely and effectively

Performing gel electrophoresis and duplicate immunoblot assays to test new primary antibodies or antibody concentrations is time-consuming and expensive. Restore Western Blot Stripping Buffer eliminates this waste when detecting immunoblots with chemiluminescent Western blotting substrates. The reagent allows clean and efficient removal of primary and secondary antibodies from immunoblots without removing or damaging the immobilized antigen. This allows blots to be stripped and reprobed with confidence.

Restore Western Blot Stripping Buffer, Ea.

Highlights:

- Saves time – no need to re-run gels and blots
- Saves costly sample – re-probe the membrane using the same target sample
- Effective – formulation is more efficient at stripping antibodies than homemade buffers
- Gentle – does not damage the target antigen during stripping allowing efficient reprobing
- Odor-free – no mercaptans means no acrid odors
- Economical – less expensive than other commercial stripping buffers

APPLICATIONS:
Reuse a nitrocellulose or PVDF blot to detect a different target with a different primary antibody; Reprobe a blot to correct or optimize antibody concentrations that were ineffective the first time

STORAGE:
Store Restore Western Blot Stripping Buffer at room temperature or 4°C.

Item Name	Quantity	Sufficient For	Cat. No.	Each
Restore Western Blot Stripping Buffer	Ea.	25 mini blots or 2000cm² membrane	**PI-21059**	135.89
Restore Western Blot Stripping Buffer	30mL	2 mini blots or 160cm² membrane	**PI-21062**	40.09
Restore Western Blot Stripping Buffer	5L	250 mini blots or 20,000cm² membrane	**PI-21063**	576.45

Chemiluminescent Detection

EMD Millipore™ Luminata Series Western HRP substrate, 100mL

Premixed, ready to use chemiluminescent HRP detection reagent

These reagent has been matched to optimize the range and sensitivity of detection using various antibodies in Western blot assays.

- Premixed for convenience to avoid cross contamination of the reagents.
- Broad range of sensitivities to satisfy all detection needs.
- Consistent results with less pipetting error.
- Stable at 4°C and also at room temperature which allows storage on bench.
- Best detection performance relative to competition.
- Compatible with both PVDF and nitrocellulose membranes, as well as all commonly used buffers and blocking reagents.

APPLICATIONS:
Western blotting, dot/slot blotting

STORAGE:
Store at 2–8°C.Stable for 1 year at 4°C from date of shipment. Contains hydrogen peroxide. Use in well ventilated area.

NOTES:
Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

Quantity	Mfr. No.	Cat. No.	Each
Luminata Classico			
100mL	WBLUC0100	**WBLUC0100**	84.60
Luminata Crescendo			
100mL	WBLUR0100	**WBLUR0100**	96.30
Luminata Forte			
100mL	WBLUF0100	**WBLUF0100**	120.20

GE™ Healthcare Amersham™ ECL™ Western Blotting Detection Reagents

10-fold more sensitive than colorimetric assays

- Detectable on Hyperfilm™ ECL or with CCD imager
- Uses enhanced luminol-based detection which is suitable for all routine Western Blotting

APPLICATIONS: Western blotting

Quantity	Mfr. No.	Cat. No.	Each
For 1000cm² membrane	RPN2109	**45-000-878**	144.56
For 2000cm² membrane	RPN2209	**45-000-885**	226.00
For 4000cm² membrane	RPN2106	**45-000-875**	312.53
For 6000cm² membrane	RPN2134	**45-001-160**	410.25

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Immobilon™ Western Chemiluminescent HRP Substrate (ECL)

Provides high sensitivity over a broad detection range at an economical price

- Combines high sensitivity and low background
- Allows detection of high- and low-abundance proteins in the mid-femtogram range
- Lowers antibody consumption by two- to five-fold compared to less sensitive reagents
- Compatible with PVDF and nitrocellulose membranes as well as all commonly used buffers and blocking reagents

INCLUDES: Luminol, peroxide solution

Quantity	Sample Size	Mfr. No.	Cat. No.	Each
50mL	500cm² membrane	WBKLS0050	**WBKL S0 050**	60.60
100mL	1000cm² membrane	WBKLS0100	**WBKL S0 100**	100.30
500mL	5000cm² membrane	WBKLS0500	**WBKL S0 500**	309.50

WBKL S0 500

Chemiluminescent Detection WB

Thermo Scientific™ Pierce™ ECL and ECL 2 Western Blotting Substrate

An entry-level ECL substrate at an affordable, entry-level price

Pierce ECL Western Blotting Substrate: Provides reliability and performance equivalent to other standard enhanced chemilumescent (ECL) substrates for detection of horseradish peroxidase (HRP) enzyme activity. Yet, Pierce ECL Substrate costs much less. Because the luminol and peroxide reagent-formulations are identical to other commercially available substrate products, one can switch to Pierce ECL without needing to optimize probing conditions or incubation protocols. Simply switch to Pierce ECL and save a bundle.

Pierce ECL 2 Western Blotting Substrate: Enables the detection of low-picogram amounts of target protein on nitrocellulose or PVDF membrane when probed with appropriate primary and secondary antibody concentrations. A broad dynamic range and excellent sensitivity combined with a long-lasting signal make Pierce ECL 2 Substrate a desirable Western blotting substrate.

Highlights:

- ECL substrate – an enhanced chemiluminescent substrate for detection of horseradish peroxidase (HRP) activity from antibodies and other Western blot probes
- No optimization required – switching to Pierce ECL substrate from other entry-level ECL substrates does not require optimization or protocol changes
- A name you can can rely on – count on the strong quality assurance, technical support and reputation behind Thermo Scientific Pierce Protein Research Products

STORAGE: Store from 2° to 8°C.

INCLUDES: Detection Reagent 1 and 2

Pierce ECL Western Blotting Substrate, 250mL kit

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce ECL Western Blotting Substrate	50mL kit	5 mini-gel blots; 400cm² of membrane	----	Luminol/Enhancer, 25mL Stable Peroxide Buffer, 25mL	**PI-32109**	55.08
Pierce ECL Western Blotting Substrate	250mL kit	25 mini-gel blots; 2000cm² of membrane	----	Luminol/Enhancer, 125mL Stable Peroxide Buffer, 125mL	**PI-32209**	136.68
Pierce ECL Western Blotting Substrate	500mL kit	50 mini-gel blots; 4000cm² of membrane	----	Luminol/Enhancer, 250mL Stable Peroxide Buffer, 250mL	**PI-32106**	196.23
Pierce ECL 2 Western Blotting Substrate	25mL kit	250cm² of membrane	Proprietary acridan and peroxide solutions	Detection Reagent A, 25mL Detection Reagent B, 0.625mL	**PI-80197**	87.72
Pierce ECL 2 Western Blotting Substrate	100mL kit	10 mini-gel blots; 1000cm² of membrane	Proprietary acridan and peroxide solutions	Detection Reagent A, 100mL Detection Reagent B, 2.5mL	**PI-80196**	298.53
Pierce ECL 2 Western Blotting Substrate	3 × 100mL kit	30 mini-gel blots; 3000cm² of membrane	Proprietary acridan and peroxide solutions	Detection Reagent A, 3 × 100mL Detection Reagent B, 3 × 2.5mL	**PI-80196X3**	614.18

EMD Millipore Snap ID™ Protein Detection System

Reduce Western blotting immunodetection time from 4 hours to 30 minutes

SEE MORE...

Click here to find out how Snap ID can enhance your research from EMD Millipore

Thermo Scientific™ SuperSignal™ West Chemiluminescent Substrates

The most sensitive enhanced chemiluminescent substrate available

SuperSignal West Femto Substrate Maximum Sensitivity Substrate is an ultra-sensitive chemiluminescent substrate system for Western blotting with horseradish peroxidase (HRP) enzyme. The substrate kit enables detection of low femtogram (that's mid-zeptomole!) amounts of protein deposited on nitrocellulose or PVDF membrane and probed with appropriate primary and secondary antibodies. When combined with optimized antibody concentrations and blocking buffers, SuperSignal West Femto Substrate enables detection of target proteins in amounts that are small to be seen with typical ECL substrates.

SuperSignal West Femto Maximum Sensitivity Chemiluminescent Substrate, 200mL kit

SuperSignal West Chemiluminescent Substrate Selection Guide

	West Femto Maximum Sensitivity Substrate	*West Dura Extended Duration Substrate*	*West Pico Chemiluminescent Substrate*
Primary Benefit	Max. sensitivity for HRP detection	Ideal for use w/ imaging equipment	High intensity; low cost per mL
Lower Detection Limit‡	Low femtogram (10^{-15}) Mid-zeptomole (10^{-20})	Mid-femtogram (10^{-14}) High zeptomole (10^{-19})	Picogram (10^{-12}) Mid-attomole (10^{-17})
Signal Duration	8 hours	24 hours	6–8 hours
Primary Detection Method	Film or CCD camera	CCD camera	Film
Suggested Antibody Dilutions	Primary: 1/5000–1/100,000 Secondary: 1/100,000–1/500,000	Primary: 1/1000–1/50,000 Secondary: 1/50,000–1/250,000	Primary: 1/1000–1/5000 Secondary: 1/20,000–1/100,000
Room Temperature (RT) Working Solution Stability	8 hours	24 hours	24 hours
Stock Solution Shelf Life	6 months at RT or 1 year at 4°C	1 year at RT	1 year at RT
Recommended Membrane	Nitrocellulose or PVDF	Nitrocellulose or PVDF	Nitrocellulose

Item Name	Quantity	Sufficient For	Kit Contents	Cat. No.	Each
SuperSignal West Femto Maximum Sensitivity Chemiluminescent Substrate	200mL kit	25 mini-gel blots; 2000cm² of membrane	Luminol/Enhancer, 100mL Stable Peroxide Buffer, 100mL	**PI-34096**	587.64
SuperSignal West Femto Maximum Sensitivity Chemiluminescent Substrate	Ea.	12 mini-gel blots; 1000cm² of membrane	Luminol/Enhancer, 50mL Stable Peroxide Buffer, 50mL	**PI-34095**	362.73
SuperSignal West Femto Maximum Sensitivity Chemiluminescent Substrate	20mL kit	2 mini-gel blots; 200cm² of membrane	Luminol/Enhancer, 10mL Stable Peroxide Buffer, 10mL	**PI-34094**	108.12
SuperSignal West Dura Extended Duration Chemiluminescent Substrate	200mL kit	25 mini-gel blots; 2000cm² of membrane	Luminol/Enhancer, 100mL Stable Peroxide Buffer, 100mL	**PI-34076**	564.43
SuperSignal West Dura Extended Duration Chemiluminescent Substrate	100mL kit	12 mini-gel blots; 1000cm² of membrane	Luminol/Enhancer, 50mL Stable Peroxide Buffer, 50mL	**PI-A34075**	337.60
SuperSignal West Dura Substrate Trial Kit	20mL kit	2 mini-gel blots; 200cm² of membrane	Luminol/Enhancer, 10mL Stable Peroxide Buffer, 10mL	**PI-37071**	102.00
SuperSignal West Pico Chemiluminescent Substrate	1L kit	120 mini-gel blots; 10,000cm² of membrane	Luminol/Enhancer, 500mL Stable Peroxide Buffer, 500mL	**PI-34078**	400.90
SuperSignal West Pico Chemiluminescent Substrate	Pk. of 1	60 mini-gel blots; 5000cm² of membrane	Luminol/Enhancer, 250mL Stable Peroxide Buffer, 250mL	**PI-34080**	237.54
SuperSignal West Pico Chemiluminescent Substrate	100mL kit	12 mini-gel blots; 1000cm² of membrane	Luminol/Enhancer, 50mL Stable Peroxide Buffer, 50mL	**PI-34077**	86.70
SuperSignal West Pico Chemiluminescent Substrate	50mL kit	6 mini-gel blots; 500cm² of membrane	Luminol/Enhancer, 25mL Stable Peroxide Buffer, 25mL	**PI-34079**	58.14
SuperSignal West Pico Chemiluminescent Substrate	200mL kit	----	Luminol/Enhancer, 100mL Stable Peroxide Buffer, 100mL	**PI-34087**	148.92

Thermo Scientific Pierce G2 Fast Blotter

Rapid and efficient protein transfer at your fingertips

SEE MORE...

Click here to find out how the G2 Fast Blotter can provide you with efficient protein transfer in 10 minutes.

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Detection Kits

Thermo Scientific™ Pierce™ TMB Substrates

Slow, fast and ultrasensitive varieties of the most popular ELISA substrate

TMB (3,3',5,5' tetramethylbenzidine) is a chromagen that yields a blue color when oxidized with hydrogen peroxide (catalyzed by HRP) with major absorbances at 370 and 652nm. The color then changes to yellow (measured at 450nm) upon addition of sulfuric or phosphoric acid to stop the reaction. TMB is very sensitive and more quickly oxidized than other HRP substrates, resulting in faster color development. Unlike other commercially available substrates, these products contain no DMF or DMSO. There are three formulations that differ primarily in their sensitivities. Slow TMB is intermediate in sensitivity, ideal for kinetic readings. The sensitivity of the Turbo TMB compares to that of OPD used at approximately 1mg/mL. Ultra TMB-ELISA produces the highest signal-to-noise ratio and sensitivity in the picogram range.

Highlights:

- Ready-to-use solutions
- No hydrogen peroxide required
- No filtering required
- Noncarcinogenic
- Various sensitivities to suit any assay

1-Step TMB Substrates

- Ready-to-use, one-component substrates
- Do not require hydrogen peroxide
- Noncarcinogenic
- Do not contain DMF or DMSO
- Available in three formulations that vary by sensitivity

INCLUDES:
TMB Substrate Kit (PI-34021):
Peroxidase substrate, 200mL;
Peroxide solution, 200mL

Pierce Ultra TMB-ELISA Substrate Solution, 250mL

Item Name	Quantity	Cat. No.	Each
Pierce 1-Step Slow TMB-ELISA Substrate Solution	250mL	**PI-34024**	92.84
Pierce 1-Step Turbo TMB-ELISA Substrate Solution	250mL	**PI-34022**	127.66
Pierce 1-Step Ultra TMB-ELISA Substrate Solution	250mL	**PI-34028**	143.48
Pierce 1-Step Ultra TMB-ELISA Substrate Solution	1L	**PI-34029**	464.20

Fluorescent Dyes

Thermo Scientific™ DyLight™ Specialty Dyes

Label molecules with blue-emitting coumarin-based dye

DyLight Dyes are labeling agents that provide bright fluorescence detection for imaging and flow cytometry. Dyes that contain a greater number of negatively charged sulfonates generally will have greater water solubility than dyes with fewer sulfonates. More hydrophobic dyes often provide better cell penetration in vivo, while more hydrophilic dyes have less nonspecific binding potential.

Highlights:

- NHS ester reactive group – allows immediate labeling of antibodies, proteins, peptides and other amine-containing molecules through amide bond formation
- Water solubility – 1 sulfonate group increases the solubility of this dye over over nonsulfonated dyes

APPLICATIONS:
Molecular imaging; Microscopy; Flow cytometry

NOTE:
For a complete menu of DyLight Specialty Dyes, see www.fishersci.com.

DyLight 415-Co1 NHS Ester, 1mg

Item Name	Qty.	Sufficient For	Formulation	Cat. No.	Each
DyLight 415-Co1 NHS Ester	1mg	N/A	NHS ester activated Coumarin derivative with 1 sulfonate group	**PI-46609**	224.72
DyLight 530-R2 NHS Ester	1mg	N/A	NHS ester activated Rhodamine derivative with 2 sulfonate groups	**PI-46611**	224.72
DyLight 680-4xPEG Maleimide	1mg	1 use to label a total of 9mg of IgG using typical conditions	Maleimide activated proprietary near-infrared fluorescent dye	**PI-46626**	322.83
DyLight 615-B1 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 1 sulfonate group	**PI-46625**	224.72
DyLight 633-B1 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 1 sulfonate group	**PI-46631**	224.72
DyLight 633-B2 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 2 sulfonate groups	**PI-46632**	224.72
DyLight 633-B3 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 3 sulfonate groups	**PI-46633**	224.72
DyLight 635-B2 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 2 sulfonate groups	**PI-46634**	224.72
DyLight 655-B1 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 1 sulfonate group	**PI-46635**	237.38
DyLight 655-B2 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 2 sulfonate groups	**PI-46636**	224.72
DyLight 655-B3 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 3 sulfonate groups	**PI-46637**	224.72
DyLight 655-B4 NHS Ester	1mg	N/A	NHS ester activated Benzopyrillium with 4 sulfonate groups	**PI-46638**	224.72

Thermo Scientific™ offers a comprehensive menu of Dylight Flourescent and activated markers for use in multiple applications. Please see www.fishersci.com for the complete menu.

GE™ Healthcare Amersham™ CyDye™ Reactive Dye 5-Packs

Convenient way to label antibodies, proteins, drugs, and oligonucleotides with CyDye fluorescent dyes

- For use in ELISA, immunoprecipitation, and blotting applications
- Dyes are packaged in premixed amounts and foil sealed to ensure consistent labelings
- The mono-reactive packs contain derivatized CyDye that carries only one reactive group on each dye molecule for accurate labeling of amine groups, such as on antibodies or oligonucleotides
- The bis-reactive packs contain fluors carrying two reactive groups on each dye molecule for general labeling of protein amine groups

ORDERING INFORMATION:
Each kit contains five vials of dye. Each vial is sufficient for labeling 1mg protein or 30nmol amino groups.

Description	Mfr. No.	Cat. No.	Each
Cy3 mono-Reactive Dye Pack	PA23001	**45-000-715**	300.30
Cy3.5 mono-Reactive Dye Pack	PA23501	**45-000-717**	300.30
Cy5 mono-Reactive Dye Pack	PA25001	**45-000-719**	300.30
Cy5.5 mono-Reactive Dye Pack	PA25501	**45-000-721**	300.30
Cy2 bis-Reactive Dye Pack	PA22000	**45-000-713**	300.30
Cy3 bis-Reactive Dye Pack	PA23000	**45-000-714**	300.30
Cy5 bis-Reactive Dye Pack	PA25000	**45-000-718**	300.30
Cy5.5 bis-Reactive Dye Pack	PA25500	**45-000-720**	300.30

GE™ Healthcare Amersham™ CyDye™ Value Packs (mono-Reactive NHS Ester)

Targeted and specific labeling of amine residues on antibodies, peptides, or oligonucleotides

- Contains derivitized CyDyes that carry only one reactive group on each dye molecule
- pH range: 3 to 10
- DMSO tolerant
- Photostable
- Example protocols included with each dye pack

Quantity	Mfr. No.	Cat. No.	Price
Cy3 NHS ester			
1mg	PA13101	**45-001-188**	294.00
5mg	PA13105	**45-001-244**	998.55
Cy3.5 NHS ester			
1mg	PA13601	**45-001-189**	294.00
Cy5 NHS ester			
1mg	PA15101	**45-001-190**	294.00
5mg	PA15100	**45-000-704**	989.10
Cy5.5 NHS ester			
1mg	PA15601	**45-001-195**	294.00
5mg	PA15605	**45-001-258**	998.55
Cy7 NHS ester			
1mg	PA17101	**45-001-263**	294.00
5mg	PA17105	**45-001-265**	998.55

**For more pack sizes, see fishersci.com*

Protein Extraction

Phosphatase Inhibitors

Thermo Scientific™ Halt™ Phosphatase Inhibitor Cocktail

Safeguards against serine, threonine and protein tyrosine phosphatases activity

The Halt Phosphatase Inhibitor Cocktail protects phosphoproteins from serine/threonine phosphatases as well as protein tyrosine phosphatases (PTPs). The cocktail contains a mixture of four inhibitors of broad specificity, including sodium fluoride, sodium orthovanadate, sodium pyrophosphate, and ß-glycerophosphate. Conveniently packaged in a 100X format, the cocktail is stable at 4°C and is suitable for use with any cell or tissue extract. The cocktail preserves protein phosphorylation in immunoprecipitation and kinase assays. Furthermore, the cocktail is compatible with popular protein assays such as the Thermo Scientific Pierce™ BCA Protein Assay Kit (Part No. 23225) and Bradford-based Pierce Coomassie Plus™ Assay Kit (Part No. 23236).

Thermo Scientific Halt Phosphatase Inhibitor Cocktail

Item Name	Quantity	Sufficient For	Cat. No.	Each
Halt Phosphatase Inhibitor Cocktail	1mL	100mL of sample	**PI-78420**	185.68
Halt Phosphatase Inhibitor Cocktail	5 × 1mL	500mL of sample	**PI-78426**	564.43
Halt Phosphatase Inhibitor Cocktail	10mL	1L of sample	**PI-78427**	770.15
Halt Phosphatase Inhibitor Cocktail	24 × 100µL	240mL of sample in 10mL increments	**PI-78428**	284.85

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Protease Inhibitors

Thermo Scientific™ Halt™ Protease Inhibitor Cocktails

Inhibit serine, cysteine, and aspartic acid proteases and metalloproteases

Halt Protease Inhibitor Cocktails are 100X solutions containing optimized concentrations of six broad-spectrum protease inhibitors stabilized in high-quality dimethylsulfoxide (DMSO). The cocktails effectively inhibit serine-proteases, cysteine-proteases, aspartic acid-proteases and aminopeptidases that are typically present in cellular lysate samples. The identity and concentration of each component is fully disclosed, leaving no uncertainties about variables and compatibility with experiments. Regular and EDTA-free formulations provide for inhibition of metalloproteases and compatibility with 2D electrophoresis, respectively. The stable, concentrated liquid cocktails are easy to use, and the several different package sizes make Halt Protease Inhibitor Cocktails exceptionally convenient for either small-scale or large-scale uses.

Thermo Scientific Halt Protease Inhibitor Cocktail

INCLUDES:
Protease inhibitor cocktails with EDTA include separate 0.5M EDTA solution.

Item Name	Quantity	Sufficient For	Cat. No.	Each
Halt Protease Inhibitor Cocktail	24 × 100µL	240mL of sample in 10mL increments	**PI-78430**	163.53
Halt Protease Inhibitor Cocktail, EDTA-Free	24 × 100µL	240mL of sample in 10mL increments	**PI-78425**	155.09
Halt Protease Inhibitor Cocktail	5mL	500mL of sample	**PI-78429**	332.33
Halt Protease Inhibitor Cocktail, EDTA-Free	5mL	500mL of sample	**PI-78437**	318.61
Halt Protease Inhibitor Cocktail	10mL	1L of sample	**PI-78438**	474.75
Halt Protease Inhibitor Cocktail, EDTA-Free	10mL	1L of sample	**PI-78439**	443.10
Halt Protease Inhibitor Cocktail	1mL	100mL of sample	**PI-87786**	86.51
Halt Protease Inhibitor Cocktail, EDTA-Free	1mL	100mL of sample	**PI-87785**	80.18

Thermo Scientific™ Pierce™ Protease Inhibitors

Individual protease inhibitor components for experiment customization

The individual reagents include AEBSF, aprotinin, bestatin, E64, leupeptin, pepstatin A, and PMSF. Although Thermo Scientific Halt™ Protease Inhibitor Cocktails provide convenient and optimized broad-spectrum protease inhibition for routine cell lysis and assay needs, certain applications require a more customized approach. By offering the individual high-quality reagents used to make our cocktail products, we provide you with the tools needed to apply a protease inhibitor individually, supplement a cocktail, or combine several components to make customized protease inhibitor cocktails for specialized applications.

Highlights:

- High-quality reagents in convenient and affordable package sizes
- Purchase individually to prepare customized protease inhibitor cocktails
- Supplement Halt Protease Inhibitor Single-Use Cocktails, whose formulations are fully disclosed, to achieve desired concentrations of specific component reagents

Item Name	Quantity	Formulation	Cat. No.	Each
Pierce Leupeptin Protease Inhibitor	50mg	[Acetyl-leucyl-leucyl-argininal] hemisulfate	**PI-78435**	311.23
Pierce E-64 Protease Inhibitor	10mg	N-trans-epoxysuccinyl-L-leucine-4-guanidinobutylamide; also called N-[N-(L-3-trans-carboxirane-2-carbonyl)]-L-leucyl agmatine	**PI-78434**	202.56
Pierce Bestatin Protease Inhibitor	10mg	N-[(2S,3R)-3-Amino-2-hydroxy-4-phenylbutyryl]-L-leucine	**PI-78433**	161.42
Pierce Aprotinin Protease Inhibitor	25mg	Lyophilized peptide	**PI-78432**	121.33
Pierce AEBSF Protease Inhibitor	100mg	4-(2-Aminoethyl) benzenesulfonyl fluoride HCl	**PI-78431**	109.72
Pierce Pepstatin A Protease Inhibitor	25mg	Lyophilized peptide	**PI-78436**	151.92
Pierce PMSF Protease Inhibitor	5g	Phenylmethylsulfonyl fluoride	**PI-36978**	67.52

Specialty Extraction

Thermo Scientific™ Mem-PER™ Eukaryotic Membrane Protein Extraction Kits

Extracts membrane-associated proteins without gradient ultracentrifugation

Traditional methods for isolation of membrane protein are tedious and time-consuming, and they require gradient separation and expensive ultracentrifugation equipment. The Mem-PER Kit effectively isolates membrane proteins from cultured cells and tissues using a simple benchtop microcentrifuge procedure. Hydrophobic proteins having three or fewer membrane-spanning domains are effectively solubilized and isolated from hydrophilic (cytoplasmic) proteins using the three-reagent system. The kit makes possible the extraction and selective enrichment of integral and attached membrane proteins from cultured mammalian and yeast cells, as well as from hard and soft mammalian tissues.

Highlights:

- Extraction and isolation – produces minimal cross-contamination (typically <10%) of hydrophilic protein into the hydrophobic (membrane) protein fraction
- Cells or tissues – extracts protein from cultured mammalian and yeast cells and mammalian tissues
- Downstream compatibility – analyze membrane protein extracts by SDS-PAGE, Western blotting and protein assays
- Fast and simple – isolate membrane proteins in approximately one hour
- No special equipment required – requires only a benchtop microcentrifuge, tubes and pipetters

INCLUDES: Three buffers and detergent solutions necessary to make working reagents

Item Name	Quantity	Sufficient For	Kit Contents	Cat. No.	Each
Mem-PER Eukaryotic Membrane Protein Extraction Kit	75mL kit	60 to 80 samples each containing 5 million cells, 15mg yeast cell paste or 20mg tissue	Mem-PER Reagent A, 10mL Mem-PER Reagent B, 25mL Mem-PER Reagent C, 40mL	**PI-89826**	270.71

** Extraction kits are also available for Bacteria, nuclear, cytoplasmic, mitochondria mammalian cells.*
Please see www.fishersci.com for the complete menu of specialty protein extraction kits.

Protein Labeling

Sulfo Labeling

Thermo Scientific™ Pierce™ Protein Modification Compounds

A carboxylate, monodentate thiol polyethylene glycol compound for pegylating metal surfaces

Pierce CT(PEG)12 Carboxy-PEG12-Thiol, 100mg

Highlights:

- Metal-binding – terminal monodentate thiol reacts spontaneously with gold surfaces through dative binding
- Carboxylate – terminal carboxylic acid group allows conjugation to amine-containing affinity ligands using carbodiimide (EDC) and Sulfo-NHS crosslinking chemistry
- Polyethylene glycol – PEG groups are flexible, non-immunogenic, hydrophilic, and significantly reduce nonspecific binding of surfaces for protein methods
- Methyl – terminal methyl group is unreactive, the primary function of this compound being to coat quantum dot and other surfaces to reduce nonspecific binding in assays
- Biotin – label macromolecules for detection or affinity purification with avidin and streptavidin
- Alkoxyamine-activated – reacts with aldehyde groups (e.g., oxidized sugars in glycoproteins) to attach biotin by stable oxime bonds

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Thermo Scientific Pierce CT(PEG)12 Carboxy-PEG12-Thiol	100mg	6mL of typical 1X (25mM) reaction solution	12-unit ethyleneglycol functionalized with carboxyl and sulfhydryl ends; solid	**PI26133**	340.77
Thermo Scientific Pierce MT(PEG)4 Methyl-PEG4-Thiol	100mg	18mL of typical 1X (25mM) reaction solution	4-unit ethyleneglycol functionalized with methyl and sulfhydryl ends; pale liquid	**PI26132**	226.83
Thermo Scientific Pierce ML(PEG)4 Methyl-PEG4-Lipoamide	100mg	10mL of typical 1X (25mM) reaction solution	4-unit ethyleneglycol functionalized with methyl and bidentate thiol ends; pale liquid	**PI26134**	226.83
Thermo Scientific Pierce CL(PEG)12 Carboxy-PEG12-Lipoamide	100mg	5mL of typical 1X (25mM) reaction solution	12-unit ethyleneglycol functionalized with carboxyl and bidentate thiol ends; solid	**PI26135**	396.68
Thermo Scientific EZ-Link Amine-PEG11-Biotin	100mg	Approx. 43 uses to label a total of 43mg of IgG using typical conditions with EDC crosslinker	11-unit ethyleneglycol with amine and biotin ends	**PI26136**	312.28
Thermo Scientific EZ-Link Alkoxyamine-PEG4-Biotin	50mg	Approx. 23 uses to label a total of 23mg of IgG (oxidized glycoprotein) using typical conditions	Alkoxyamine-activated biotin with a tetraethyleneglycol spacer	**PI26137**	274.30

** Thermo Scientific offers a large menu of protein modification reageants. For more information, please see www.fishersci.com*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Pierce™ Kinase Enrichment Kits and Probes

Reagents for the selective capture and enrichment of kinases using active-site probes

These products, based on ActivX ATP and ADP Probes, feature an amine-reactive nucleotide analog and a desthiobiotin (biotin analog) tag that facilitates selective labeling of lysines in the kinase active site and then subsequent enrichment and recovery of labeled protein. These features allow identification and profiling of target enzyme classes across samples or assessment of the specificity and affinity of enzyme inhibitors.

Pierce Kinase Enrichment Kits

Highlights:

- Specific – label only the conserved active-site lysines of nucleotide-binding proteins
- Flexible – use for in vitro labeling of ATPase enzymes derived from cells or tissues
- Compatible – use with Western blot or mass spectrometry (MS) workflows

APPLICATIONS:
Profile small-molecule binding affinities and active-site inhibition in a dose-dependent manner; Identify dozens to hundreds of inhibitor targets and off-targets from tissues, cells and subcellular proteomes; Enrichment of enzymes based on function

Item Name	Qty.	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce Kinase Enrichment Kit with ATP Probe, Thermo Scientific	16-rxn kit	16 pull-down assays	Multi-component kit with Desthiobiotin-ATP Probe	ActivX Desthiobiotin-ATP Probe, 16 x 12.6µg Pierce IP Lysis Buffer, 100mL Reaction Buffer, 125mL Halt Protease/Phosphatase Inhibitor Cocktail (100X), 1mL Zeba Spin Desalting Columns, 7K MWCO, 8 x 5mL columns High Capacity Streptavidin Agarose Resin (50% slurry), 1mL MgCl2, 500µL Urea, 12g	**PI88310**	553.88
Thermo Scientific ActivX Desthiobiotin-ATP Probe	16 x 12.6µg	16 pull-down assays	Desthiobiotin-ATP, MW 1259	N/A	**PI88311**	274.30
Pierce Kinase Enrichment Kit with ADP Probe, Thermo Scientific	16-rxn kit	16 pull-down assays	Multi-component kit with Desthiobiotin-ADP Probe	ActivX Desthiobiotin-ADP Probe, 16 x 9.9µg Pierce IP Lysis Buffer, 100mL Reaction Buffer, 125mL Halt Protease/Phosphatase Inhibitor Cocktail (100X), 1mL Zeba Spin Desalting Columns, 7K MWCO, 8 x 5mL columnsHigh Capacity Streptavidin Agarose Resin (50% slurry), 1mL MgCl2, 500µL Urea, 12g	**PI88312**	553.88
Thermo Scientific ActivX Desthiobiotin-ADP Probe	16 x 9.9µg	16 pull-down assays	Desthiobiotin-ADP, MW 994	N/A	**PI88313**	274.30

Thermo Scientific™ Pierce™ GTPase Enrichment Kit and Probes

Selective capture and enrichment of GTPases using active-site probes

ActivX GTP Probes feature a desthiobiotin (biotin analog) tag that facilitates selective enrichment and recovery of labeled GTPases allowing identification and profiling of target enzyme classes across samples or to assess the specificity and affinity of enzyme inhibitors.

Pierce GTPase Enrichment Kit with GTP Probe, 16-rxn kit

Highlights:

- Specific – label only the conserved active-site lysines of nucleotide-binding proteins
- Compatible – use for in vitro labeling of GTPase enzymes derived from cells or tissues.
- Flexible – use with Western blot or mass spectrometry (MS) workflows

APPLICATIONS:
Broad enrichment of GTP-binding proteins from tissues, cells and subcellular proteomes; Enrichment of enzymes based on function; Profiling of dozens to hundreds of inhibitor targets

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce GTPase Enrichment Kit with GTP Probe, Thermo Scientific	16-rxn kit	16 pull-down assays	Multi-component kit with Desthiobiotin-GTP Probe	ActivX Desthiobiotin-GTP Probe, 16 x 12.9µg Pierce IP Lysis Buffer, 100mL Reaction Buffer, 125mL Halt Protease/Phosphatase Inhibitor Cocktail (100X), 1mL Zeba Spin Desalting Columns, 7K MWCO, 8 x 5mL columns High Capacity Streptavidin Agarose Resin (50% slurry), 1mL MgCl2, 500µL Urea, 12g	**PI88314**	474.75
Thermo Scientific ActivX Desthiobiotin-GTP Probe	16 x 12.9µg	16 pull-down assays	Desthiobiotin-GTP, MW 1275	N/A	**PI88315**	237.38

Protein Purification

Antibody Purification

GE Healthcare HiScreen™ MabSelect™, Xtra™, SuRe™, SuRe LX™ Prepacked Columns

Designed for method optimization and parameter screening for capture of monoclonal antibodies

- Ready-to-use columns for convenient process development
- Rigid, highly cross-linked agarose matrix
- Bed height of 10cm is designed to allow method optimization and parameter screening
- Easily connected in series to achieve 20cm bed height
- Small bed volume (4.7mL) gives fast result and minimal sample/buffer consumption
- Reproducible results, scalable to BioProcess columns packed with the same chromatography media using the same linear fluid velocity

MabSelect

- For capture of MAbs from large sample volumes
- Prepacked with protein A-derived media
- Compatible with high flow rates and high pressure when scaling up

MabSelect Xtra

- Increased binding capacity enables purification of MAbs from high-level expression feedstock
- Also optimized for Fc-fusion proteins
- Very low, unspecific binding due to high ligand selectivity and matrix hydrophilicity
- Prepacked with protein A-derived media

45002526

MabSelect SuRe (Superior Resistance) and MabSelect SuRe (Superior Resistance) LX

- With novel, alkali-tolerant recombinant protein A ligand that provides greater stability and allows use of 0.1 to 0.5M sodium hydroxide for cleaning-in-place (CIP)
- Enhanced protease resistance resulting in lower ligand leakage
- High dynamic binding capacity

STORAGE:
Store at 2° to 8°C in 20% ethanol.

Specifications

Type	HiScreen MabSelect	HiScreen MabSelect Xtra	HiScreen MabSelect SuRe	HiScreen MabSelect SuRe LX
Max. Flow Velocity	500cm/hr.	300cm/hr.	500cm/hr.	500cm/hr.
Dynamic Binding Capacity/mL Medium	~30mg human IgG	~40mg human IgG	~30mg human IgG	~60mg human IgG
Ligand	Recombinant protein A (E.coli)	Recombinant protein A (E.coli)	Alkali-stabilized protein A-derived (E. coli)	Alkali-stabilized protein A-derived (E. coli)
Average Particle Size	85µm	75µm	85µm	85µm
Bed Volume	4.7mL	4.7mL	4.7mL	4.7mL
Bed Dimensions	7.7 × 100mm	7.7 × 100mm	7.7 × 100mm	7.7 × 100mm
Max. Pressure	3 bar (44psi)	3 bar (44psi)	3 bar (44psi)	3 bar (44psi)
Column Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Bed Support	Filter	Filter	Filter	Filter

Description	Pack Size	Mfr. No.	Cat. No.	Each
HiScreen MabSelect	1 × 4.7mL	28926973	**45-002-526**	861.00
HiScreen MabSelect Xtra	1 × 4.7mL	28926976	**45-002-527**	861.00
HiScreen MabSelect SuRe	1 × 4.7mL	28926977	**45-002-528**	1177.73
HiScreen MabSelect SuRe LX	1 × 4.7mL	17547415	**45-002-525**	1177.73

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Antibody Based Purification

GE™ Healthcare A Sepharose™ Fast Flow Affinity Media

Designed for purification and separation of monoclonal and polyclonal antibodies

45-002-971

rProtein Media

- Composed of recombinant protein A coupled with cross-linked 4% agarose base matrix
- High dynamic binding capacity, single point attachment of protein A, with high recovery, high purity and low ligand leakage
- No mammalian components involved during manufacturing process
- Matrix: 4% cross-linked agarose
- Average particle size: 90µm (d50V)
- Ligand: 6mg rProtein A/mL medium (E. coli)
- Binding capacity: ~50mg human IgG/mL media
- pH stability working range: 3 to 10
- Pressure/Flow specification: base matrix 150 to 250cm/hr., 100kPa, XK 50/60 column, bed

Rmp Protein Media

- Non-mammalian-based media composed of recombinant Protein A coupled with Sepharose 4 Fast Flow base matrix by reductive amination
- Coupling chemistry that minimizes leakage of protein A ligand
- Multi-point attachment of rProtein A by chemically-stable amide bonds
- High capacity and good pressure/flow characteristics provide for high throughput
- Matrix: 4% cross-linked agarose
- Average particle size: 90µm (d50V)
- Ligand: recombinant protein A (E. coli)
- pH Stability working range: 3 to 10
- pH Stability cleaning-in-place: 2 to 11
- Binding capacity/mL chromatography medium: >35mg human IgG/ mL
- Pressure/Flow specification: base matrix 150 to 250cm/hr., 100kPa, XK 50/60 column

nProtein Media

- Low leakage of protein A with nearly twice total IgG binding capacity of Protein A Sepharose CL-4B
- Used in large-scale FDA-approved processes
- Manufactured without using animal-derived components
- Rigidity and high degree of substitution of Sepharose 4 Fast Flow matrix facilitates speedy process of large volumes dilute cell culture fluid
- High chemical, thermal and mechanical stability
- Withstands high concentrations of hydrogen bond disrupting agents
- Particle size: 90µm (d50V)
- Concentration: 6mg Protein A/mL medium
- Binding Capacity: >30mg human IgG/mL

STORAGE:
Store at 2° to 8°C, 20% Ethanol.

Pack Size	Mfr. No.	Cat. No.	Each
rProtein A Sepharose			
5mL	17127901	**45-002-971**	582.20
25mL	17127902	**45-002-972**	1731.23
200mL	17127903	**45-002-973**	3396.85
rmp Protein A Sepharose			
5mL	17513801	**45-002-974**	582.20
200mL	17513803	**45-002-976**	3396.85
nProtein A Sepharose			
5mL	17528001	**45-002-981**	467.40

results delivering solutions

DELIVERING LIFE SCIENCE SOLUTIONS

Fisher Scientific provides workflow solutions with its RESULTS program. We have teamed up with many of our market-leading suppliers to provide you with technical support, innovative products, and trusted brands to provide end-to-end life science application support. Visit **www.fishersci.com/results** for details.

Thermo Scientific™ Pierce™ Protein A Agarose and Kits

NAb Protein A Plus Spin Purification Kit, 0.2mL, 10-column kit

Pierce Protein A IgG Purification Kit, 5-column kit

Pierce Protein A UltraLink Resin, 5mL

Highlights:

- Native Protein A – immobilized Protein A is ideal for polyclonal IgG purification from human, rabbit, pig, dog or cat serum
- Agarose resin – support is crosslinked 6% beaded agarose (CL-6B), the most popular resin for protein affinity purification methods
- Inert and stable – superior manufacturing method immobilizes Protein A by charge-free, leach-resistant covalent bonds, resulting in low nonspecific binding and enabling multiple uses without decline in yield

High-Capacity Protein A:

Pierce Protein A Plus Agarose consists of purified native Protein A that has been covalently immobilized at high density onto high-quality crosslinked 6% beaded agarose (CL-6B). Among the many available varieties of immobilized Protein A affinity resins, this one provides the most versatile combination of chromatographic features for high yield and high purity purification of whole IgG from mammalian serum samples. The agarose beads have physical and chemical properties suitable for many affinity purification systems. Accordingly, Pierce Protein A Plus Agarose is offered in several convenient package formats, including bottled resin slurries, three sizes of spin columns, complete purification kits, two sizes of FPLC-ready chromatography cartridges, and 96-well filter plates.

Protein A UltraLink™ Resin

UltraLink Resin is an azlactone-activated polyacrylamide support that is hydrophilic, charge-free, high capacity, highly crosslinked, rigid and porous. This support is especially useful for medium pressure techniques when using large sample volumes requiring fast-flow techniques (FPLC) and large-scale applications. Unlike typical beaded agarose supports, UltraLink Support does not crush or collapse when subjected to high flow rates that result in pressures exceeding 25psi.

INCLUDES:

Purification kits contain Protein A Plus Spin Columns, binding buffer, elution buffer and neutralization buffer

NOTE:

For a complete menu for Pierce protein A agarose and kits, see www.fishersci.com.

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Protein A Agarose						
Pierce Protein A Plus Agarose	25mL	Binding ≥34mg human IgG/mL resin; 16 to 17mg mouse IgG/mL resin	Protein A on crosslinked 6% beaded agarose, slurried in water with sodium azide	----	**PI-22812**	1540.30
Pierce Protein A Chromatography Cartridges, 1mL	2 cartridges	Binding 35mg human IgG per cartridge	1mL resin cartridges with LC and Luer-Lok™ Fittings	----	**PI-89924**	186.74
NAb Protein A Plus Spin Columns, 0.2mL	10 columns	Binding 7mg human IgG per column	0.8mL-capacity microcentrifuge columns containing 0.2mL resin	----	**PI-89952**	258.48
NAb Protein A Plus Spin Columns, 5mL	1 column	Binding 175mg human IgG per column	22mL-capacity centrifuge columns containing 5mL resin	----	**PI-89960**	462.09
High-Capacity Protein A						
Pierce Protein A Agarose	25mL	Binding 12 to 19mg human IgG/mL resin; 6 to 8mg mouse IgG/mL resin	Protein A on crosslinked 6% beaded agarose, slurried in water with sodium azide	----	**PI-20334**	1210.09
Protein A UltraLink™ Resin						
Pierce Protein A UltraLink Resin	5mL	Binding 16mg human IgG/mL resin	Protein A on UltraLink Resin, slurried in water with sodium azide	----	**PI-53139**	400.90

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Thermo Scientific™ Pierce™ Protein A/G Agarose and Kits

Resin and columns for broad-spectrum IgG purification at any scale

Pierce Protein A/G Agarose binds nearly all isotypes and mammalian species of IgG from serum, ascites fluid, cell culture supernantant and other antibody samples, thereby enabling effective antibody purification. Because the immobilized Protein A/G combines the immunoglobulin- binding domains of both Protein A and Protein G, the resin is effective for affinity purification of IgG antibodies from a broad range mammalian host species.

Pierce Protein A/G Plus Agarose, 2mL

NAb Protein A/G Spin Purification Kit, 0.2mL, 10-column kit

Pierce Protein A/G UltraLink Resin, 2mL

Protein A/G – immobilized recombinant fusion protein of the antibody-binding domains of Protein A and Protein G enables polyclonal IgG purification from nearly any mammalian species

- Agarose resin – support is crosslinked 6% beaded agarose (CL-6B), the most popular resin for protein affinity purification methods
- Inert and stable – superior manufacturing method immobilizes Protein A/G by charge-free, leach-resistant covalent bonds, resulting in low nonspecific binding and enabling multiple uses without decline in yield
- Standard capacity – Pierce Protein A/G Agarose has a normal load of immobilized Protein A/G, providing a binding capacity greater than 7mg human IgG/mL resin
- Multiple formats – choose from bottled resin slurries, centrifugeready columns, complete purification kits and two sizes of FPLC-ready chromatography cartridges

High-Capacity Protein A/G Agarose

Has a very dense load of immobilized Protein A/G, providing a binding capacity greater than 50mg human IgG/mL resin

Protein A/G UltraLink™ Resin

The Protein A/G UltraLink Resin is used to bind and purify IgG in gravityflow, spin-column or medium-pressure chromatography methods. UltraLink Resin is an azlactone-activated polyacrylamide support that is hydrophilic, charge-free, high capacity, highly crosslinked, rigid and porous. This support is especially useful for medium pressure techniques when using large sample volumes requiring fast-flow techniques (FPLC) and large-scale applications. Unlike typical beaded agarose supports, UltraLink Support does not crush or collapse when subjected to high flow rates that result in pressures exceeding 25psi.

INCLUDES:
Purification kits contain Protein A/G Spin Columns, binding buffer, elution buffer and neutralization buffer

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Protein A/G Agarose						
Pierce Protein A/G Plus Agarose	2mL	Binding 50mg human IgG/mL resin	Protein A/G on crosslinked 6% beaded agarose, slurried in water with sodium azide	----	**PI-20423**	374.53
High-Capacity Protein A/G Agarose						
Pierce Protein A/G Agarose	3mL	Binding 7mg of human IgG/mL resin	Protein A/G on crosslinked 6% beaded agarose, slurried in water with sodium azide	----	**PI-20421**	374.53
Pierce Protein A/G Agarose	15mL	Binding 7mg of human IgG/mL resin	Protein A/G on crosslinked 6% beaded agarose, slurried in water with sodium azide	----	**PI-20422**	1319.81
Pierce Protein A/G Chromatography Cartridges, 1mL	2 cartridges	Binding 7mg human IgG per cartridge	1mL resin cartridges with LC and Luer-Lok™ Fittings	----	**PI-89930**	228.94
Pierce Protein A/G Chromatography Cartridges, 5mL	1 cartridge	Binding 35mg human IgG per cartridge	5mL resin cartridges with LC and Luer-Lok™ Fittings	----	**PI-89931**	456.82
NAb Protein A/G Spin Columns, 0.2mL	10 columns	Binding 1.4mg human IgG per column	0.8mL-capacity microcentrifuge columns containing 0.2mL resin	----	**PI-89954**	302.79
NAb Protein A/G Spin Columns, 1mL	5 columns	Binding 7mg human IgG per column	5mL-capacity centrifuge columns containing 1mL resin	----	**PI-89958**	522.23
NAb Protein A/G Spin Columns, 5mL	1 column	Binding 35mg human IgG per column	22mL-capacity centrifuge columns containing 5mL resin	----	**PI-89962**	493.74
NAb Protein A/G Spin Purification Kit, 0.2mL	10-column kit	Purifying approx. 1.4mg of human IgG per column	----	NAb Protein A/G Spin Columns, 0.2mL, 10 columns Microcentrifuge Tubes, 2mL, 80 tubes PBS Pack (makes 500mL), 1 pack IgG Elution Buffer (pH 2.8), 50mL Neutralization Buffer, 12mL	**PI-89950**	308.06
NAb Protein A/G Spin Purification Kit, 1mL	2-column kit	Purifying approx. 7mg of human IgG per column	----	NAb Protein A/G Spin Columns, 1mL, 2 columns PBS Pack (makes 500mL), 1 pack IgG Elution Buffer (pH 2.8), 240mL Neutralization Buffer, 12mL	**PI-89980**	330.22
Protein A/G UltraLink™ Resin						
Pierce Protein A/G UltraLink Resin	2mL	Binding 20mg human IgG/mL resin	Protein A/G on UltraLink Resin, slurried in water with sodium azide	----	**PI-53132**	313.34
Pierce Protein A/G UltraLink Resin	10mL	Binding 20mg human IgG/mL resin	Protein A/G on UltraLink Resin, slurried in water with sodium azide	----	**PI-53133**	1033.90

Immuno Protein A

GE™ Healthcare Protein A Sepharose™ CL-4B Medium

For immunoglobin purification and fractionation, as well as for immunoprecipitation

- Strong binding to Fc region of IgG
- Suitable for polyclonal antibody purification
- High capacity—20mg human IgG/mL
- pH stability Cleaning-in-Place (CIP): 2 to 10
- Stable in commonly used aqueous buffers, 6M guanidine-HCl, 8M urea

Quantity	Mfr. No.	Cat. No.	Each
1.5g	17-0780-01	**45-000-143**	464.10
25mL	17-0963-03	**45-000-172**	1588.65
500mL	17-0963-02	**45-000-171**	15,537.90

GE Healthcare HiTrap™ Con A 4B Columns

For separation and purification of glycoproteins, polysaccharides and glycolipids

45-002-925

- Prepacked with Con A Sepharose™ 4B media
- Bed volume: 1mL and 5mL
- Bed dimensions: 7 × 25mm (1mL), 16 × 25mm (5mL)
- Column material: Polypropylene (PP)
- Max flow rate: 4mL/min (1mL), 20mL/min (5mL)

Media

- Ligand: Concanavalin A (Con A)
- Matrix: 4% agarose
- Average particle size: 90µm
- pH stability working range: 4 to 9

STORAGE:
Store at 4° to 8°C.

Quantity	Mfr. No.	Cat. No.	Each
5 × 1mL	28-9520-85	**45-002-925**	182.70
5 × 5mL	28-9520-96	**45-002-926**	703.50

Immuno Protein L

GE Healthcare Life Sciences™ Capto L Chromatography Medium

Capto L is a BioProcess chromatography medium (resin) for the capture of antibodies and antibody fragments.

Capto L is suitable for the capture of a wide range of antibody fragments such as Fabs, single-chain variable fragments (scFv), and domain antibodies (Dabs).

45-002-601

- High binding capacity, low ligand leakage, and selectivity for a broad range of antibody fragments reduces process time and amount of medium.
- Enables a platform approach for purification of antibody fragments.
- Increased productivity, process economy, and process design flexibility due to rigid matrix.
- The high binding capacity and selectivity for a broad range of antibody fragments makes Capto L an excellent capture platform for antibody fragments containing kappa light chains.
- Using Capto L requires minimal optimization and it produces high purity in one separation step.
- Capto L provides several advantages in manufacturing processes because the high selectivity of affinity capture reduces the number of subsequent polishing steps.

Specifications	
BioProcess Media	Yes
Ligand	Recombinant protein L (E. coli), mammalian free
Average Particle Size	85µm (d50V)
Matrix	Rigid, highly cross-linked agarose
pH Stability Working Range	2 to 10
Flow Velocity	<500cm/h
Coupling Chemistry	Epoxy activation
Storage Requirements	2°C to 8°C in 20% ethanol
Recommended Cleaning-in-Place Reagent	15 mM NaOH
Dynamic Capacity	Approx 25mg human Fab /ml medium

Description	Mfr. No.	Cat. No.	Each
Capto L, 25ml	17547801	**45-002-601**	2079.73
Capto L, 200ml	17547802	**45-002-602**	5273.63
Capto L, 5ml	17547806	**45-002-603**	587.33

** Also available in other formats; please see www.fishersci.com*

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Magnetic Separation

EMD Millipore™ PureProteome™ Magnetic Stands

Rapidly and easily isolate magnetic particles

LSKMAGS08

APPLICATIONS:
Purification with magnetic beads

PureProteome Magnetic Stand

- Isolate magnetic particles from up to eight 1.5 or 2.0mL tubes
- Features removable magnet bar and unique vortex interface
- Vortex interface engages with a 3.5" (8.89cm) dia. flat top vortex mixer to enable thorough mixing without having to remove tubes from the stand

PureProteome Magnetic Stand, 15mL

- For use with PureProteome Magnetic Beads in affinity purifications
- Features a strong trapezoidally-shaped magnet for efficient capture of up to 750µL of PureProteome magnetic beads
- Angled stand securely holds two 15mL conical tubes for easy pipetting and viewing

Description	Cat. No.	Price
PureProteome Magnetic Stand, Holds up to Eight 1.5 or 2mL Tubes	**LSKMAGS08**	442.50
Holds two 15mL conical tubes	**LSKMAGS15**	429.00

EMD Millipore™ PureProteome™ Beads and Kits

PureProteome magnetic beads are a powerful system to isolate antibodies faster and easier with better reproducibly than ever before.

PureProteome™ Magnetic Beads

- High capacity: Advanced chemistry combined with high surface area provides more binding sites for proteins
- Consistent results with no sample loss: Particles visible as they adhere to side of tube for quick and easy aspiration and complete buffer removal
- Fast processing time: Beads are immobilized in seconds. Increased kinetics of bead-protein binding enables shorter incubations
- Economical: Significantly more affordable then competitive magnetic beads

Nickel Magnetic Beads

- No lysate clearing — crude cell lysates are processed by magnetic beads
- Fast processing time — entire protocol is completed in less than one hour
- High affinity — binding can take place in buffer containing P5mM EDTA
- Flexible scale — varying the bead quantity allows different protein yields
- Flexible elution — native or denatured proteins
- Automatable — hands-free screening process

Protein A and Protein G Magnetic Bead Systems

Unlike conventional methods that require centrifugation to pellet the beads then careful aspiration to avoid sample loss, these beads are isolated using a magnetic rack. This allows for the total removal of buffers for complete recovery of beads with no sample dilution.

- Bind 1.5 to 2.5µg (Protein A) or 2.5 to 3.5µg (Protein G) of Rabbit IgG or per µL of suspension
- More than 6x the binding capacity of competitive magnetic beads
- Total removal of buffers with no sample loss for consistent results

Human Albumin/Immunoglobulin Depletion Kit

The PureProteome™ human albumin/immunoglobulin depletion kit is a magnetic bead based kit that enables high depletion efficiency (typically >99%) of albumin and all immunoglobulins (i.e IgG, IgA, IgM, IgE and IgD) from human serum or plasma samples. The kit includes 12ml of premixed mag beads, 7ml of PBS buffer and an 8 pack of Amicon Ultra centrifugals for downstream buffer exchange or concentration if required.

Kappa Ig Binder Magnetic Beads/Lambda Ig Binder Magnetic Beads

A powerful system that helps researchers purify all Immunoglobulins (i.e IgG, IgA, IgM, IgE and IgD) with high specificity. Researchers can also purify/seperate the Fab portion from the Fc portion of Immunoglobulins.

Streptavidin Magnetic Bead System

- Suitable for immunoprecipitations, purifying nucleic acids, isolating cells and organelles
- Binding capacity >20µg of protein per mg settled beads

STORAGE:
Store at 2-8°C.

REQUIRES:
PureProteome Magnetic Stand (8 well) (Cat # LSKMAGS08) required by Protein A systems, Protein G systems, Kappa Ig Binder Beads and Lambda Ig Binder Beads

NOTES:
Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

**For a complete menu of magnetic bead offerings, please see www.fishersci.com*

Quantity	Particle Size	Mfr. No.	Cat. No.	Each
Nickel Magnetic Beads				
2 x 1mL	10µm	LSKMAGH02	**LSKMAGH02**	104.20
10mL	10µm	LSKMAGH10	**LSKMAGH10**	461.50
Protein A Systems				
10mL	10µm	LSKMAGA10	**LSKMAGA10**	678.00
2 × 1mL	10µm	LSKMAGA02	**LSKMAGA02**	224.00
Protein G Systems				
10mL	10µm	LSKMAGG10	**LSKMAGG10**	678.00
2 × 1mL	10µm	LSKMAGG02	**LSKMAGG02**	224.00
Magna GrIP 8-Well Magnetic Rack				
----	----	20-400	**20400MI**	200.14
Human Albumin/Immunoglobulin Depletion Kit				
1 kit	----	LSKMAGHDKIT	**LSKMAGHDKIT**	639.50
Kappa Ig Binder Magnetic Beads				
2 x 1mL	10µm	LSKMAGKP02	**LSKMAGKP02**	361.50
Lambda Ig Binder Magnetic Beads				
2 x 1mL	10µm	LSKMAGLM02	**LSKMAGLM02**	361.50
Streptavidin Magnetic Bead System				
2 x 1mL	10µm	MILSKMAGT02	**MILSKMAGT02**	367.50

Thermo Scientific™ Pierce™ Magnetic Beads

Can be used both manually with a magnetic stand as well as with automated platforms such as the Thermo Scientific KingFisher Instruments for high-throughput workflows.

Pierce NHS-Activated Magnetic Beads, 1mL

NHS-Activated Magnetic Beads

for rapid immobilization of proteins and other amine-containing ligands

The activated magnetic beads contain N-hydroxysuccinimide (NHS) functional groups that react with primary amines forming stable amide linkages. Once they are covalently attached, the immobilized proteins are highly resistant to leaching from the bead surface. When prepared beads are used in experiments, nonspecific binding is negligible because nonreacted NHS-ester groups are thoroughly blocked during the coupling procedure.

HisPur™ Ni-NTA Magnetic Beads

for high-throughput capture of His-tagged fusion proteins from protein extracts

The blocked magnetic bead surface is derivatized with the nitrilotriacetic acid (NTA) chelation moiety and loaded with divalent nickel ions (Ni2+). The immobilized metal affinity chromatography (IMAC) beads provide high binding capacity with very low background.

Anti-HA Magnetic Beads

for recombinant HA-tagged protein purification

The blocked magnetic bead surface is coated with anti-HA antibody, a highly specific mouse IgG1 monoclonal antibody that recognizes the HA-epitope tag (YPYDVPDYA) derived from the human influenza hemagglutinin (HA) protein.

Protein A and G Magnetic Beads

for antibody purification and IP assays

Recombinant protein A or G, covalently attached to a blocked magnetic bead surface, can bind to antibodies from many different species, enabling purification of antibodies from crude extracts. Immunoprecipitation assays performed with protein A or G coated beads result in high yield of target antigen with very low background. Using our crosslinker chemistry, you can immobilize an antibody onto the magnetic particle and prevent IgG contamination in IP or Co-IP experiments.

Protein L Magnetic Beads

High-performance magnetic affinity particles for antibody purification based on kappa light chains

Recombinant Protein L, covalently attached to a blocked magnetic bead surface, selectively binds mouse and human antibodies through kappa light chains. The beads are commonly used to purify monoclonal antibodies in cell culture supernantants supplemented with bovine serum as Protein L does not bind bovine IgG.

NOTES: For more information about Thermo Scientific Pierce magnetic beads, visit www.fishersci.com

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Pierce NHS-Activated Magnetic Beads	1mL	Binding at least 26µg of rabbit IgG/mg of beads	NHS-activated, magnetite-coated blocked polymer beads at 10mg/mL in anhydrous DMAC	**PI88826**	226.83
Pierce NHS-Activated Magnetic Beads	5mL	Binding at least 26µg of rabbit IgG/mg of beads	NHS-activated, magnetite-coated blocked polymer beads at 10mg/mL in anhydrous DMAC	**PI88827**	756.44
HisPur Ni-NTA Magnetic Beads	2mL	Binding at least 500µg green fluorescent protein (GFP)/mL of bead	Nickel on nitrilotriacetic acid covalently coupled to blocked superparamagnetic beads; supplied at 12.5mg/mL in 20% ethanol	**PI88831**	192.01
HisPur Ni-NTA Magnetic Beads	10mL	Binding at least 500µg green fluorescent protein (GFP)/mL of bead	Nickel on nitrilotriacetic acid covalently coupled to blocked superparamagnetic beads; supplied at 12.5mg/mL in 20% ethanol	**PI88832**	724.79
Pierce Anti-HA Magnetic Beads	1mL	Binding at least 100ug GST-ERK-HA (70kDa fusion protein)/mL of beads	High-affinity mouse IgG1 monoclonal antibody covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88836**	238.43
Pierce Anti-HA Magnetic Beads	5mL	Binding at least 100ug GST-ERK-HA (70kDa fusion protein)/mL of beads	High-affinity mouse IgG1 monoclonal antibody covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88837**	811.30
Pierce Protein A Magnetic Beads	1mL	Binding at least 400µg rabbit IgG/mL of bead	Recombinant Protein A monolayer covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88845**	167.75
Pierce Protein A Magnetic Beads	5mL	Binding at least 400µg rabbit IgG/mL of bead	Recombinant Protein A monolayer covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88846**	638.28
Pierce Protein G Magnetic Beads	1mL	Binding at least 600µg rabbit IgG/mL of bead	Recombinant Protein G monolayer covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88847**	167.75
Pierce Protein G Magnetic Beads	5mL	Binding at least 600µg rabbit IgG/mL of bead	Recombinant Protein G monolayer covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88848**	638.28
Pierce Protein L Magnetic Beads	1mL	Binding at least 1000µg human IgG/mL of bead	Recombinant Protein L monolayer covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88849**	173.02
Pierce Protein L Magnetic Beads	5mL	Binding at least 1000µg human IgG/mL of bead	Recombinant Protein L monolayer covalently coupled to blocked superparamagnetic beads; supplied at 10mg/mL in PBS containing 0.05% Tween-20 and 0.05% NaN3	**PI88850**	659.38

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Endotoxin Removal

Thermo Scientific™ Pierce™ High Capacity Endotoxin Removal Resin and Columns

Pierce High Capacity Endotoxin Removal Spin Columns

A quick method to remove endotoxins (lipopolysaccharides or LPS) from samples

The Pierce High Capacity Endotoxin Removal Resin combines porous cellulose beads and an FDA-approved food preservative, poly(epsilon-lysine), as an affinity ligand to selectively bind endotoxins. Endotoxin levels in protein samples are reduced by greater than 99% in as little as 1 hour using our spin cup format, and protein recovery is ≥85%. The modified polylysine affinity ligand eliminates the toxicity concerns associated with alternative technologies using polymixin B ligands and sodium deoxycholate buffers. Pierce High capacity Endotoxin Removal Resin is available as a slurry to pack a custom column that can be re-used at least 5 times with no loss in endotoxin removal efficiency. This resin is also available in a new single-use spin column format optimized for different sample volumes.

Highlights:

- High capacity – bind up to 2,000,000 EU/mL to eliminate at least 99% of endotoxins
- Durable – re-use resin up to 10 times with no loss in performance
- Selective – recover at least 85% of your protein sample
- High performance – compatible with FDA guidelines by reducing final EU concentration to less than 5 EU/mL
- Fast – our new spin cup format enables endotoxin depletion within 1 hour
- Clean – single-use spin columns avoid cross contamination of samples
- Optimized – spin cups are optimized for different sample volumes
- Economical – large-volume discounts available

APPLICATIONS:
Eliminate endotoxins from protein or antibody samples prior to cell transfection or animal injection

REQUIRES:
Endotoxin-free water

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Pierce High Capacity Endotoxin Removal Resin	10mL	Removing (per mL of resin) at least 99.9% of 10,000 endotoxin units from 5mL test samples	Proprietary ligand on beaded cellulose slurried in 20% ethanol	**PI88270**	279.58
Pierce High Capacity Endotoxin Removal Spin Columns, 0.25mL	5 columns	Removing at least 99.9% of the endotoxin present in typical 0.5 to 1mL samples	5mL-capacity centrifuge columns containing 0.25mL resin	**PI88273**	51.70
Pierce High Capacity Endotoxin Removal Spin Columns, 0.5mL	5 columns	Removing at least 99.9% of the endotoxin present in typical 1 to 4mL samples	8mL-capacity centrifuge columns containing 0.5mL resin	**PI88274**	60.14
Pierce High Capacity Endotoxin Removal Spin Columns, 1mL	5 columns	Removing at least 99.9% of the endotoxin present in typical 2 to 10mL samples	22mL-capacity centrifuge columns containing 1mL resin	**PI88276**	167.75

** Additional pack sizes available; see www.fishersci.com*

Thermo Scientific™ Pierce™ LAL Chromogenic Endotoxin Quantitation Kit

Pierce LAL Chromogenic Endotoxin Quantitation Kit, 50-test kit

Measure endotoxin levels in your protein sample quickly and accurately

The endotoxin concentration in a sample is measured using the Pierce LAL Chromogenic Endotoxin Quantitation Kit via a chromogenic signal generated in the presence of endotoxins. Samples can be measured on a microplate absorbance reader at 405nm. A standard curve is created using the E. coli endotoxin standard included with each kit to calculate endotoxin levels as low as 0.1 EU/mL. Protein and antibody samples can be assayed in as little as 30 minutes. Determining endotoxin levels is important to assess the efficiency of endotoxin removal methods and prevent endotoxic shock, inflammation and/or sepsis in tissue culture cells and animals injected with endotoxin contaminated proteins.

Highlights:

- Sensitive – detect as little as 0.1 EU/mL
- Fast – perform this assay in 30 minutes
- Economical – assay requires only 10µl of a protein sample
- Accurate – E. coli O111:B4 standard in each kit enables accurate endotoxin quantitation
- Versatile – 405nm absorbance reading is compatible with common ELISA plate readers

APPLICATIONS:
Quantitation of endotoxin levels in a protein, peptide or antibody solution

INCLUDES:
Kit contains Limulus Amebocyte Lysate (LAL), E. coli endotoxin standard, chromogenic substrate and endotoxin-free water to prepare assay reagents.

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce LAL Chromogenic Endotoxin Quantitation Kit	50-test kit	50 microplate-well assays with 50µL samples containing 0.1 to 1 endotoxin units/mL	Multi-component kit	Limulus Amebocyte Lysate (LAL), 2 vials E. coli O111:B4 Endotoxin, 1 vial Chromogenic Substrate, 1 vial Endotoxin-free water, 1 vial	**PI88282**	240.75

GST-Tagged Purification

GE™ Healthcare Glutathione Sepharose™ 4 FF Media

Single-step purification of GST-tagged proteins and other glutathione S-transferase or glutathione-dependent proteins

- Glutathione coupled to Sepharose 4 Fast Flow via 10-carbon spacer arm
- Protein binding capacity ≈10mg recombinant GST/mL media (flowrate dependent)
- Binding capacity and high flow properties allow scale-up
- Mild elution conditions preserve protein antigenicity and function
- Stable in all commonly used aqueous buffers
- pH stability 3 to 12

45-000-285, -86, -87

Volume	Mfr. No.	Cat. No.	Each
25mL	17-5132-01	**45-000-285**	567.00
100mL	17-5132-02	**45-000-286**	1791.30
500mL	17-5132-03	**45-000-287**	6825.00

GE™ Healthcare GST GraviTrap™ Column

For purification of fusion proteins

45-002-270

- Contains ten disposable columns prepacked with 2mL of Glutathione Sepharose 4B
- Convenient, prepacked gravity-flow columns
- Allows direct purification of both clarified and unclarified cell lysates
- Yields up to 20mg of pure proteins per column
- GST-tagged proteins are recovered under mild elution conditions (10mM glutathione), which preserves functionality of the proteins
- Binding capacity of prepacked GST GraviTrap columns varies with the nature of the tagged protein and the exact binding conditions used

STORAGE:
Store at 4° to 30° in 20% Ethanol.

Specifications	
Bed Volume	2mL
Binding Capacity/Column	Up to 20mg recombinant glutathione S-transferase (rGST)
Media	
Ligand	Glutathione
Average Particle Size	90µm
Matrix	Agarose, 4%
Particle Size	45 to 165µm
Binding Capacity/ml Chromatography Medium	>25 mg horse liver GST/ml medium1)
pH stability Working Range	4-13
Ligand Coupling Method	Epoxy activation
Column	
Column I.D.	15mm
Chemical Stability	Stable in all commonly used buffer systemsgot
Material [Column Hardware]	Polypropylene
Material [Bed Support]	Polyethylene

Pack Size	Mfr. No.	Cat. No.	Each
10 x 2mL	28952360	**45-002-270**	659.40

GE™ Healthcare GSTrap™ FF, HP and 4B Columns for Purification of GST Tagged Proteins

Purifies GST-tagged proteins in one step

45-002-912

- Mild elution conditions preserve antigenicity and function of proteins extracted
- Prepacked with Glutathione Sepharose™ media
- Average particle size: 90µm
- Available as 1mL and 5mL columns

1mL columns

- Bed dimensions: 7 × 25mm
- Flow velocity: P4mL/min.

5mL columns

- Bed dimensions: 16 × 25mm
- Flow velocity: P20mL/min.

STORAGE:
4° to 30°C in 20% ethanol.

Name	Pack Size	Mfr. No.	Cat. No.	Each
Bed dimensions: 7 x 25mm				
FF Columns	2 x 1mL	17-5130-02	**450-002-82**	165.64
FF Columns	5 x 1mL	17-5130-01	**450-002-81**	322.35
FF Columns	100 x 1mL	17-5130-05	**45-002-912**	4915.05
Bed dimensions: 16 x 25mm				
FF Columns	1 x 5mL	17-5131-01	**450-002-83**	313.95
FF Columns	5 x 5mL	17-5131-02	**450-002-84**	1240.05
Bed Dimensions: 7 x 25mm				
HP Columns	5 x 1mL	17-5281-01	**45-000-332**	358.05
HP Columns	100 x 1mL	17-5281-05	**45-002-917**	5349.75
Bed Dimensions: 7 x 25mm				
HP Columns	1 x 5mL	17-5282-01	**45-000-333**	346.50
HP Columns	5 x 5mL	17-5282-02	**45-000-334**	1400.70
Bed Dimensions: 7 x 25mm				
4B Columns	1 x 1mL	29-0486-09	**45-001-431**	87.15
4B Columns	5 x 1mL	28-4017-45	**45-001-429**	345.45
Bed Dimensions: 16 x 25mm				
4B Columns	1 x 5mL	28401747	**45-001-430**	327.60
4B Columns	5 x 5mL	28401748	**45-002-922**	1274.70
4B Columns	100 x 5mL	28401749	**45-000-506**	19,066.95

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Pierce™ Glutathione Superflow Agarose

Purify glutathione S-transferase (GST) tagged proteins at medium to high linear flow rates

Pierce Glutathione Superflow Agarose is a highly crosslinked, durable resin that does not compress at flow rates required for medium- to large-scale FPLC purifications. The resin holds up well to a variety of chemical and pH values, and it is compatible with common clean-in-place procedures. The specific binding of glutathione to the GST-tag results in high purity and high yield in a single step purification process.

Highlights:

- High dynamic binding capacity – binds 10mg of pure GST per mL of resin at a linear flow rate of 150cm/hour; can bind greater than 20mg/mL at 30cm/hour flow rate
- High purity – provides greater than 90% purity when used to purify overexpressed GST or GST-fusion proteins from lysates
- Robust – highly crosslinked 6% agarose Superflow beaded support tolerates linear flow rates up to 1200cm/hour
- Compatible – maintains function after exposure to a wide variety of chemicals and pH values
- Cost effective – resin is stable through multiple cycles of cleaning and reuse

APPLICATIONS:
Medium- to large-scale FPLC purification of GST-tagged proteins

Item Name	Qty.	Cat No.	Each
Pierce Glutathione Superflow Agarose	10mL	**PI25236**	205.73
Pierce Glutathione Superflow Agarose	50mL	**PI25237**	659.38
Pierce Glutathione Superflow Agarose	250mL	**PI25238**	2271.42
Pierce Glutathione Superflow Agarose	1L	**PI25239**	6845.90

His-Tagged Purification

5 PRIME™ PerfectPro™ Ni-NTA Agarose

Ni-NTA resin with high binding capacity for efficient batch and gravity flow purification of 6xHis-tagged proteins

PerfectPro Agarose is a nickel-charged affinity resin that can be used to purify recombinant proteins containing a polyhistidine (6xHis) sequence. Composed of Ni-NTA coupled to Sepharose™ CL-6B, it provides a high surface concentration of the NTA ligand. A high binding capacity and minimal nonspecific binding are provided by PerfectPro Agarose, which exhibits excellent handling properties for batch, column, and low-pressure FPLC. Approximately 5 to 20mg of 6xHis-tagged protein binds to 1mL of PerfectPro Agarose resin. Proteins bound to the resin may be eluted with either low pH buffer or by competition with imidazole or histidine.

- High binding capacity of 5 to 20mg 6xHis-tagged protein/mL resin
- Flexibility to permit purification under native or denaturing conditions
- Minimized nonspecific binding
- Easy-to-handle and ready-to-use matrices for any scale of purification

STORAGE: Store at 4°C for up to one year.

Quantity	Mfr. No.	Cat. No.	Each
10mL	2400000	**FP2400000**	103.90
25mL	2400010	**FP2400010**	266.50
100mL	2400020	**FP2400020**	866.00

GE™ Healthcare HisTrap™ FF, FF Crude, and HP Prepacked Columns

Optimized for purification of histidine-tagged proteins directly from homogenized, unclarified cell lysates

- Prepacked with Ni Sepharose™ 6 Fast Flow media
- Binding capacity approximately 40mg/mL medium with negligible Ni^{2+} leakage
- Maximum pressure: 3 bar
- Column material: polypropylene
- Compatible with wide variety of reducing agents, detergents, denaturants, and other additives
- 1 and 5mL columns

45-000-335 (top) and 45-000-000 (bottom)

Media

- Matrix: 6% cross-linked agarose
- Average particle size: 90µm
- pH stability working range: 3 to 12

1mL columns

- Bed dimensions: 7 × 25mm
- Flow velocity: P4mL/min.

5mL columns

- Bed dimensions: 16 × 25mm
- Flow velocity: P20mL/min.

STORAGE:
Store at 4° to 30°C in 20% ethanol.

Name	Pack Size	Mfr. No.	Cat. No.	Each
Bed Dimensions: 7 x 25mm				
FF Columns	5 × 1mL	17-5319-01	**45-000-336**	159.60
Bed Dimensions: 7 x 25mm				
FF Columns	5 × 5mL	17-5255-01	**45-000-326**	550.20
FF Columns	100 × 5mL	17-5255-02	**45-002-916**	8479.83
Bed dimensions: 7 x 25mm				
FF Crude Columns	1 x 1mL	29-0486-31	**45-000-507**	45.10
FF Crude Columns	5 x 1mL	11-0004-58	**45-000-000**	174.30
FF Crude Columns	100 x 1mL	11-0004-59	**45-0029-09**	2810.55
Bed dimensions: 16 x 25mm				
FF Crude Columns	5 x 5mL	17-5286-01	**45-000-335**	631.05
FF Crude Columns	100 x 5mL	17-5286-02	**45-002-919**	10,028.60
Bed Dimensions: 7 x 25mm				
HP Columns	1 x 1mL	29-0510-21	**45-000-513**	47.15
HP Columns	5 x 1mL	17-5247-01	**45-000-323**	181.65
HP Columns	100 x 1mL	17-5247-05	**45-002-914**	2662.95
Bed Dimensions: 16 x 25mm				
HP Columns	1 x 5mL	17-5248-01	**45-000-324**	155.40
HP Columns	5 x 5mL	17-5248-02	**45-000-325**	605.85
HP Columns	100 x 5mL	17-5248-05	**45-002-915**	9368.50

GE™ Healthcare Ni Sepharose™ High Performance Media

Precharged with Ni^{2+} for optimal purification of histidine-tagged proteins

- Negligible leakage of Ni^{2+} ions
- High binding capacity: at least 40mg protein/mL medium
- Compatible with a wide range of reducing agents, detergents, denaturants, and other additives
- Stable (long-term) in the pH range 3-12
- Average particle size: 34µm

STORAGE: 4 to 30°C, in 20% ethanol

Quantity	Mfr. No.	Cat. No.	Each
25mL	17-5268-01	**45-000-328**	348.60
100mL	17-5268-02	**45-000-329**	1214.85

45-000-328 and 45-000-329

GE™ Healthcare HiTrap™ TALON™ Crude Prepacked Columns

For purification of histidine-tagged recombinant proteins by immobilized metal affinity chromatography (IMAC)

Cobalt-based IMAC medium offering different selectivity compared to nickel-charged media. Allows protein purification under native or denaturing conditions and can be used with prokaryotic and eukaryotic expression systems.

- Prepacked with cobalt-based chromatography media
- Binding capacity approximately 7mg MBP
- Maximum pressure: 3 bar
- Column material: polypropylene
- Compatible with commonly used buffers and easily regenerated with 0.5 M NaOH
- 1 and 5mL columns

Media

- Ligand: TALON™ Superflow Cobalt-IMAC
- Matrix: 6% cross-linked agarose
- Average particle size: 60 to 160µm
- pH stability working range: 3 to 12

1mL columns

- Column I.D.: 7mm
- Flow velocity: 1 to 4mL/min.

45-002-385

5mL columns

- Column I.D.: 16
- Flow velocity: 5 to 20mL/min.

STORAGE: Store at 4°C to 8°C in 20% ethanol.

Pack Size	Mfr. No.	Cat. No.	Each
Column I.D.: 7mm			
1 × 1mL	29048565	**45-000-502**	45.10
5 × 1mL	28953766	**45-002-385**	171.18
100 × 1mL	28953805	**45-002-387**	2824.90
Column I.D.: 16mm			
5 × 5mL	28953767	**45-002-386**	619.10
100 × 5mL	28953809	**45-002-388**	10,077.80

GE™ Healthcare TALON™ Medium and Accessories

- Ligand – TALON Superflow Cobalt-IMAC
- Matrix – Cross-linked agarose, 6%
- Particle size – 60-160um
- Binding capacity/mL – Up to 20mg histidine-tagged protein
- pH stability working range – 3 to 12

STORAGE:
Store at: 4°C to 8°C in 20% ethanol.

Description	Media	Mfr. No.	Cat. No.	Price
Super-flow Medium				
10mL	Loose media	28957499	**45002389**	129.15
50mL	Loose media	28957502	**45002390**	567.85
His SpinTrap				
50 x 100µL	Single use spin column	29000593	**45002391**	438.70
His GraviTrap				
10 x 1mL	Prepacked gravity flow column	29000594	**45002392**	276.75
His MultiTrap				
4 x 96-well filter plates	Prepacked 96-well plate	29000596	**45002393**	1001.43

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ HisPur™ Cobalt Resin

Specific, fast and gentle purification of His-tagged proteins

HisPur Cobalt Agarose Resin is available in several package sizes of resin slurry, three sizes of centrifuge-ready columns, complete purification kits, two sizes of FPLC-ready chromatography cartridges, and 96-well filter plates for high through-put needs. With these options, high-quality His-tag protein purification is possible at nearly any scale. Compared to Ni-IDA and tetradentate Ni2+ chelate resins, HisPur Cobalt Resin binds histidine-tagged proteins with higher specificity (less off-target binding) and releases them with gentler conditions (lower concentrations of imidazole). Use HisPur Columns and Cartridges to obtain high-purity His-tagged proteins with no metal contamination.

HisPur Cobalt Resin, 100mL

Highlights:

- High purity – obtain more than 10 milligrams of pure His-tagged protein per milliliter of resin without optimizing imidazole washing conditions
- Low metal leaching – no metal contamination in eluted histidine-tagged protein sample
- Versatility – purify proteins under native or denaturing conditions; compatible with cell lysis reagents and a variety of buffer additives
- Flexibility – available as bulk resin or predispensed columns, chromatography columns and 96-well filter plates
- Cost effective – resin can be reused several times or discarded after single use
- Superior – performs better than other commercially available IMAC Resins

Available Formats:

- Resin Slurries – crosslinked 6% beaded agarose; 10mL, 100mL, 500mL bottles
- Spin Columns – 0.2mL (microcentrifuge), 1mL, 3mL columns
- Purification Kits – complete kits in all three column sizes
- Chromatography Cartridges – compatible with automated liquid chromatography systems and with syringe processing
- 96-well Spin Plates – pre-dispensed 96-well filter plates, compatible with centrifugation and vacuum manifold systems for manual or automated purification. The plates enable fast, consistent well-to-well and plate-to-plate reproducibility for small-scale, high-throughput separations.
- Bulk and Custom – let us know your needs for bulk HisPur Cobalt Resin

INCLUDES:

Kits contain HisPur Cobalt Columns, equilibration/wash buffer and elution buffer

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
HisPur Cobalt Resin	10mL	Binding > 10mg of His-tagged protein per mL of resin	Cobalt (IMAC) on crosslinked 6% beaded agarose, slurried in 20% ethyl alcohol	**PI-89964**	97.06
HisPur Cobalt Resin	100mL	Binding > 10mg of His-tagged protein per mL of resin	Cobalt (IMAC) on crosslinked 6% beaded agarose, slurried in 20% ethyl alcohol	**PI-89965**	670.98
HisPur Cobalt Resin	500mL	Binding > 10mg of His-tagged protein per mL of resin	Cobalt (IMAC) on crosslinked 6% beaded agarose, slurried in 20% ethyl alcohol	**PI-89966**	2648.05
HisPur Cobalt Spin Columns, 0.2mL	25 columns	Binding approx. 2mg of His-tagged protein per column	0.8mL-capacity microcentrifuge columns containing 0.2mL resin	**PI-89967**	176.19
HisPur Cobalt Spin Columns, 1mL	5 columns	Binding approx. 10mg of His-tagged protein per column	8mL-capacity centrifuge columns containing 1mL resin	**PI-89968**	116.05
HisPur Cobalt Spin Columns, 3mL	5 columns	Binding approx. 30mg of His-tagged protein per column	22mL-capacity centrifuge columns containing 3mL resin	**PI-89969**	170.91
HisPur Cobalt S pin Plates	2 plates	Binding approx. 1mg of His-tagged protein per well	96-well filter plates containing 100µL HisPur Cobalt Resin per well; Includes 6 collection plates	**PI-90095**	352.37
HisPur Cobalt Chromatography Cartridges, 1mL	5 cartridges	Binding > 10mg of His-tagged protein per cartridge	1mL resin cartridges with LC and Luer-Lok* Fittings	**PI-90093**	176.19
HisPur Cobalt Chromatography Cartridges, 5mL	2 cartridges	Binding > 50mg of His-tagged protein per cartridge	5mL resin cartridges with LC and Luer-Lok* Fittings	**PI-90094**	294.35

Thermo Scientific™ HisPur™ Ni-NTA Superflow Agarose

High-capacity nickel-IMAC resin for His-tagged fusion protein purification at high flow rates

HisPur Ni-NTA Superflow Agarose is a highly crosslinked, durable resin that does not compress at flow rates used for medium- or large-scale FPLC purifications. The resin holds up well to a variety of chemicals and pH values, and is compatible with common clean-in-place procedures. Compared to cobalt and other ligands used for immobilized metal affinity chromatography (IMAC), nickel provides greater capacity for His-tagged protein purification. HisPur Ni-NTA Superflow Agarose exhibits a high dynamic binding capacity across a range of flow rates, making it an excellent choice for larger scale purifications.

Highlights:

- High capacity – binds greater than 20mg of His-tagged GFP per mL of resin at a linear flow rate of 300cm/hour
- High purity – provides greater than 80% purity of eluted fractions when used to purify from lysates
- Versatile – can be used to purify proteins under native and denaturing conditions
- Robust – highly crosslinked beads tolerate linear flow rates up to 1200cm/hour
- Compatible – maintains function in a wide variety of chemicals and pH conditions
- Cost effective – competitively priced resin is stable through multiple cycles of cleaning and reuse

APPLICATIONS: Medium- to large-scale FPLC purification of polyhistidine tagged proteins

Item Name	Quantity	Sufficient For	Formulation	Cat No.	Each
HisPur Ni-NTA Superflow Agarose	50mL	Binding up to 60mg 6xHis-GFP/mL resin (static capacity) or up to 20mg 6xHis-GFP/mL resin (dynamic capacity)	Nickel-NTA (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25215**	440.99
HisPur Ni-NTA Superflow Agarose	250mL	Binding up to 60mg 6xHis-GFP/mL resin (static capacity) or up to 20mg 6xHis-GFP/mL resin (dynamic capacity)	Nickel-NTA (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25216**	1858.91
HisPur Ni-NTA Superflow Agarose	1L	Binding up to 60g 6xHis-GFP/L resin (static capacity) or up to 20g 6xHis-GFP/L resin (dynamic capacity)	Nickel-NTA (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25217**	6535.73
HisPur Ni-NTA Superflow Agarose	10mL	Binding up to 60mg 6xHis-GFP/mL resin (static capacity) or up to 20mg 6xHis-GFP/mL resin (dynamic capacity)	Nickel-NTA (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25214**	104.45

Thermo Scientific™ HisPur™ Cobalt Superflow Agarose

Specific and gentle purification of His-tagged proteins at high flow rates

HisPur Cobalt Superflow Agarose is a highly crosslinked, durable resin that does not compress at flow rates used for medium- to large-scale FPLC purifications. The resin holds up well to a variety of chemicals and pH values, and is compatible with common clean-in-place procedures. Compared to nickel and other ligands commonly used for immobilized metal affinity chromatography (IMAC), cobalt provides greater specificity for His-tagged protein purification. The specific binding of HisPur Cobalt Superflow Agarose results in purer elution fractions, reducing the need for extra polishing steps.

Highlights:

- Robust – highly crosslinked 6% agarose Superflow beaded support tolerates linear flow rates up to 1200cm/hour with minimal leaching of cobalt due to a tetradentate chelator
- High yields – binds 20mg of 6xHis-GFP per mL of resin at a linear flow rate of 150cm/hour, can bind greater than 30mg per mL of resin depending on flow rate
- High purity – specificity of cobalt binding to histidine-tag generally results in elution fractions with less than 10% contamination of non-specific proteins
- Compatible – maintains function after exposure to a wide variety of chemicals and pH values
- Cost effective – resin is stable through multiple cycles of cleaning and reuse

APPLICATIONS:
Large scale FPLC purification of polyhistidine tagged proteins

Item Name	Quantity	Sufficient For	Formulation	Cat No.	Each
HisPur Cobalt Superflow Agarose	10mL	Binding up to 30mg 6xHis-GFP/mL resin (static capacity) or up to 20mg 6xHis-GFP/mL resin (dynamic capacity)	Cobalt (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25228**	93.90
HisPur Cobalt Superflow Agarose	50mL	Binding up to 30mg 6xHis-GFP/mL resin (static capacity) or up to 20mg 6xHis-GFP/mL resin (dynamic capacity)	Cobalt (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25229**	415.67
HisPur Cobalt Superflow Agarose	250mL	Binding up to 30mg 6xHis-GFP/mL resin (static capacity) or up to 20mg 6xHis-GFP/mL resin (dynamic capacity)	Cobalt (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25230**	1804.05
HisPur Cobalt Superflow Agarose	1L	Binding up to 30g 6xHis-GFP/L resin (static capacity) or up to 20g 6xHis-GFP/L resin (dynamic capacity)	Cobalt (IMAC) on highly crosslinked 6% beaded agarose (superflow 6), slurried in 20% ethyl alcohol	**PI25231**	5671.68

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Hydrophobic

GE™ Healthcare HiScreen™ Sepharose Prepacked HIC Columns

Designed for method optimization and parameter screening

- Ready-to-use columns for convenient process development optimization
- Standard aliphatic/aromatic Hydrophobic Interaction Chromatography media for capture and intermediate purification
- Bed height of 10cm designed to allow method optimization and parameter screening; bed dimension: 7.7 × 100mm
- Easily connected in series to achieve 20cm bed height
- Small bed volume of 4.7mL for fast result and minimal sample/buffer consumption
- Reproducible results, scalable to BioProcess columns packed with same chromatography media using same linear fluid velocity
- Pack size: 1 x 4.7mL

45-002-535

45-002-543

Fast Flow HIC Columns:

- Flow velocity: P240/450cm/hr.

STORAGE:
Stored at 4° to 30°C, 20% Ethanol or 0.01M NaOH.

Description	Maximum Flow Velocity	Mfr. No.	Cat. No.	Each
Fast Flow HIC Columns				
HiScreen Butyl FF	240cm/hr	28926984	**45-002-534**	128.30
HiScreen Butyl-S FF	450cm/hr	28926985	**45-002-535**	128.30
HiScreen Octyl FF	240cm/hr	28926986	**45-002-536**	128.30
HiScreen Phenyl FF (Low Sub)	450cm/hr	28926989	**45-002-538**	127.18
HIC Columns				
HiScreen Phenyl HP	150cm/hr	28950516	**45-002-543**	146.32
HiScreen Butyl HP	150cm/hr	28978242	**45-002-545**	146.32

GLOBAL COVERAGE WITH A LOCAL TOUCH

The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

Sales Representatives . . . Customer Service Representatives . . . Technical Sales Representatives . . . Safety Specialists . . . Chemical Specialists . . .

Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

GE™ Healthcare Fast Flow Chromatography Media

Available in range of different bulk pack sizes and convenient prepacked formats for easy scale-up and process development

- Base matrix derivatized via uncharged, chemically-stable ether linkages
- Hydrophilic nature of the base matrix ensures low levels of non-specific binding

Octyl Sepharose™ 4

45-002-935

- Aliphatic hydrophobic interaction chromatography (HIC) medium for capture and intermediate purification of larger proteins
- HIC ligands are coupled to monosaccharide units via their corresponding glycidylethers, giving matrices without charges and stable etherbonds between ligands and agarose
- Octyl derivative adds different and complementary selectivity to Sepharose Fast Flow HIC product family
- Resin based on cross-linked 4% agarose
- Supported for industrial applications and well established in approved processes

Phenyl Sepharose™ 6

45-002-938

- Used for capture and intermediate purification requiring low to medium hydrophobicity
- Two levels of substitution help find optimal selectivity and binding capacity for given application
- Hydrophobic interaction chromatography (HIC) media composed of cross-linked 6% agarose beads modified with standard aromatic phenyl groups via uncharged, chemically-stable ether linkages
- Degree of substitution for low sub HIC media is ~25µmol phenyl/mL gel
- Degree of substitution for high sub HIC media is ~40µmol phenyl/mL gel

Butyl-S Sepharose™ 6

45-002-941

- The least hydrophobic medium in the Sepharose Fast Flow hydrophobic interaction chromatography (HIC) range and is particularly useful during the initial stages of purification process
- Binds and elutes relatively strong hydrophobic molecules at comparatively low salt concentrations
- Hydrophilic nature of the base matrix ensures low levels of nonspecific binding
- Purifies recombinant Hepatitis B virus surface antigen from CHO cells
- Composed of cross-linked 6% agarose beads modified with butyl groups via thio-ether linkage

Butyl Sepharose™ 4

45-002-943

- Used for capture and intermediate purification of larger proteins
- Hydrophobic interaction chromatography (HIC) media composed of crosslinked 4% agarose
- Aliphatic butyl ligand immobilized to base matrix with ether linkage
- Fast Flow matrix gives the adsorbent high chemical, physical and thermal stabilities
- Dynamic capacity at low salt concentration
- Used with all aqueous buffers commonly used in chromatography
- Autoclavable at 121°C for 20 minutes in water

Butyl Sepharose™ High Performance

45-002-954

- Designed for intermediate and polishing step purification steps
- Hydrophobic interaction chromatography (HIC) media composed of highly cross-linked 34µm agarose beads with aliphatic butyl functional groups
- High-resolution, capacity separations for recovery
- High ligand density for dynamic binding capacity even at low salt concentration
- Display minimum of ionic interactions
- Chemical stability for effective CIP and sanitization
- Available in prepacked columns such as HiPrep™, HiScreen™, and HiTrap™ plus laboratory and BioProcess pack sizes

CNBr-Activated Sepharose™ 4

45-002-969

- Used for coupling of large amino containing ligands
- Resin composed of cross-linked 4% agarose beads that has been preactivated with cyanogen bromide
- Proteins and other molecules containing primary amino groups are coupled directly to preactivated gel
- Allows for multi-point attachment of protein ligands which minimizes ligand leakage
- Available in range of different bulk pack sizes and convenient prepacked formats for easy scale-up and process development

STORAGE:
Store at 4° to 30°C in 20% Ethanol, except CNBr-Activated Sepharose™ 4, which should be stored unused at 2° to 8°C or 2° to 8°C in 20% ethanol.

Pack Size	Mfr. No.	Cat. No.	Each
Octyl Sepharose 4			
25mL	17094610	**45-002-936**	143.57
200mL	17094602	**45-002-935**	652.93
Phenyl Sepharose 6, Low substitution			
25mL	17096510	**45-002-938**	133.85
200mL	17096505	**45-002-937**	652.93
Phenyl Sepharose 6, High substitution			
25mL	17097310	**45-002-940**	131.94
200mL	17097305	**45-002-939**	652.93
Butyl-S Sepharose 6			
25mL	17097810	**45-002-942**	141.12
200mL	17097802	**45-002-941**	659.08
Butyl Sepharose 4			
25mL	17098010	**45-002-944**	133.73
200mL	17098001	**45-002-943**	652.93
Butyl Sepharose High Performance			
25mL	17543201	**45-002-954**	176.29
200mL	17543202	**45-002-955**	739.03
CNBr-Activated Sepharose 4			
10g	17098101	**45-002-969**	311.85

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GE™ Healthcare Sephaorose™ Fast Flow Anion Exchange Media

Used for preparative protein separations in both research and industrial applications

45-002-927

- Hydrophilic nature of base matrix ensures low levels of non-specific binding leading to low levels of host cell-derived impurities in the elution pool
- Matrix is composed of crosslinked 6% or 4% agarose beads
- Part of Sepharose Fast Flow ion exchange platform
- High chemical stability allows well proven cleaning-in-place (CIP) and sanitization protocols
- Available in range of pre-packed process development tools

Q Sepharose:

- Ligand: quaternary amine
- Ion exchanger type: strong anion exchanger
- Ionic capacity: 0.18 to 0.25mmol Cl^-/mL medium
- Binding capacity: 120mg HSA/mL medium
- Pressure/Flow specification: 400 to 700cm/hr., 100kPa, XK 50/30 column, bed height 15cm

DEAE Sepharose:

- Ligand: Diethylaminoethyl
- Ion exchanger type: weak anion exchanger
- Ionic capacity: 0.11 to 0.16mmol Cl^-/mL medium
- Binding capacity: 110mg HSA/mL medium
- Pressure/Flow specification: 300 to 600cm/hr., 100kPa, XK 50/30 column, bed height 15cm

ANX Sepharose 4 (high Sub) Sepharose:

- Ligand: Diethylaminopropyl
- Ion exchanger type: Weak anion exchanger
- Ionic capacity: 0.13 to 0.17mmol Cl^-/mL medium
- Binding capacity: 5mg thyroglobulin/mL medium
- Pressure/Flow specification: min. 200cm/hr., 100kPa, XK 50/60 column, bed height 25cm

APPLICATIONS:
Capture and purification of proteins.

STORAGE:
Store at 4° to 30°C, 20% Ethanol.

Specifications	
Media Type	BioProcess
Particle Size	45 to 165µm
pH Working Range	2-12
pH Stability Cleaning-in-Place (CIP)	2 to 14
Flowrate	>200cm/hr. depends on media

Description	Pack Size	Mfr. No.	Cat. No.	Each
ANX Sepharose 4 Fast Flow	25mL	17128710	**45-002-949**	157.22
Q Sepharose Fast Flow	300mL	17051001	**45-002-927**	422.30
DEAE Sepharose Fast Flow	500mL	17070901	**45-002-929**	517.63

GE™ Healthcare Sepharose™ Fast Flow Cation Exchange Media

Cation exchanger used for preparative protein separations in research and industrial applications

45-002-931

- Hydrophilic nature of base matrix ensures low levels of non-specific binding leading to low levels of host cell-derived impurities in the elution pool
- Composed of crosslinked 6% agarose beads
- Reproducible
- Part of Sepharose Fast Flow ion exchange platform
- High chemical stability, allowing well proven cleaning-in-place (CIP) and sanitization protocols
- Available in range of pre-packed process development tools

SP Sepharose:

- Ligand: Sulphopropyl
- Ion Exchanger Type: Strong cation exchanger
- Ionic Capacity: 0.18 to 0.25mmol H^+/mL medium
- Binding capacity: 70mg ribonuclease A/mL medium

CM Sepharose:

- Ligand: Carboxymethyl
- Ion Exchanger Type: Weak cation exchanger
- Ionic Capacity: 0.09 to 0.13mmol HI^+/mL medium
- Binding capacity: 50mg ribonuclease A/mL medium

APPLICATIONS:
Used extensively for capture and intermediate purification of wide range of approved biopharmaceuticals

STORAGE:
SP Sepharose: Store at 4° to 30°C in 20% Ethanol + 0.2 M Sodium Acetate. CM Sepharose: Store at 4° to 30°C in 20% Ethanol.

Specifications	
Media Type	BioProcess
Particle Size	45 to 165µm
pH Working Range	4 to 13

Description	Pack Size	Mfr. No.	Cat. No.	Each
CM Sepharose Fast Flow	500mL	17071901	**45-002-931**	530.25
SP Sepharose Fast Flow	300mL	17072901	**45-002-933**	422.30

GE™ Healthcare Q Sepharose™ High Performance Chromatography Media

Designed for high intermediate and polishing steps in downstream processing

45-002-945

- Composed of crosslinked agarose beads with mean diameter of 34µm, modified with quaternary (Q) strong anion exchange groups
- Hydrophilic nature of base matrix ensures low levels of non-specific binding
- High resolution, high capacity separation with high recovery
- Chemical stability for effective CIP/sanitization
- Available in range of different bulk pack sizes and convenient pre-packed formats for easy scale-up and process development

STORAGE: Store at 4° to 30°C in 20% Ethanol

Specifications	
Media Type	BioProcess
Ionic Capacity	0.14 to 0.20mmol Cl^-/mL
Particle Size	24 to 44µm
pH Working Range	2 to 12
Binding Capacity	70mg BSA/mL medium

Pack Size	Mfr. No.	Cat. No.	Each
75mL	17101401	**45-002-945**	251.13

GE™ Healthcare Capto™ Q Chromatography Media

Designed to use for efficient capture and intermediate protien purification when high volume throughput is essential

45-002-950

- Rigid, high flow agarose matrix modified with dextran surface extenders and strong quaternary ammonium (Q) anion exchanger
- Combination of high volume throughput and dynamic binding capacity at high flow for raise in productivity
- Process time reduced due to combination of high capacity with high flow velocity
- Withstands effective CIP procedure and is chemically stable
- Available in range of different bulk pack sizes and convenient pre-packed formats for easy scale-up and process development

STORAGE: Store at 4° to 30°C in 20% Ethanol.

Specifications	
Media Type	BioProcess
Ionic Capacity	0.16 to 0.22 mmol Cl^-/mL medium
Particle Size	90µm (d_{50V})
pH Working Range	2 to 12
Binding Capacity	>100mg BSA/mL medium

Pack Size	Mfr. No.	Cat. No.	Each
100mL	17531602	**45-002-950**	432.55

GE™ Healthcare SP Sepharose™ High Performance Media

Designed for high intermediate and polishing steps in downstream processing

45-002-947

- Composed of crosslinked agarose beads with mean diameter of 34µm, modified with sulphopropyl (SP) strong cation exchange groups
- High resolution, high capacity separation with high recovery
- Chemical stability for effective CIP/sanitization
- Available in range of different bulk pack sizes and convenient pre-packed formats for easy scale-up and process development

STORAGE: Store at 4° to 30°C in 20% Ethanol + 0.2 M Sodium Acetate

Specifications	
Media Type	BioProcess
Ionic Capacity	0.15 to 0.20mmol H^+/mL
Particle Size	24 to 44µm
pH Working Range	4 to 13
Binding Capacity	55mg ribonuclease/mL medium

Pack Size	Mfr. No.	Cat. No.	Each
75mL	17108701	**45-002-947**	254.20

GE™ Healthcare Capto™ Multimodal (MMC) Chromatography Media

Used to solve specific purification challenges at both high and low ionic strengths

45-002-952

- Composed of rigid, high-flow agarose matrix and novel multimodal ligand
- Used to bind proteins at conductivity of feed material
- Ligand contains carboxylic acid group and exhibit the properties of weak cation exchanger
- High dynamic binding capacity at high conductivity
- High-volume throughput cuts process times
- Available in range of different bulk pack sizes and convenient pre-packed formats for easy scale-up and process development
- Dynamic binding capacity at 10% breakthrough as measured at a residence time of 2 min, 300cm/h in a Tricorn(TM) 5/100 column with 10cm bed height in 50mM Sodium acetate, pH 4.75, 250mM NaCl.

WARRANTY: Store at 4° to 30°C in 20% Ethanol

Specifications	
Media Type	BioProcess
Ionic Capacity	0.07 to 0.09mmol H^+/mL medium
Particle Size	75µm (d_{50V})
pH Working Range	2 to 12
Binding Capacity	>45mg BSA/mL medium at 30mS/cm[1]

Pack Size	Mfr. No.	Cat. No.	Each
25mL	17531710	**45-002-953**	191.68
100mL	17531702	**45-002-952**	654.98

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GE™ Healthcare Q Sepharose XL, Virus Licensed

Identical to Q Sepharose XL in all aspects, but in addition, provides a license for use in virus purification.

- Q Sepharose XL with a license for virus purification
- High loading capacities give more productive capture from clarified feedstocks
- Strong anion exchanger designed for capture steps
- High chemical stability for effective CIP/sanitization
- The hydrophilic nature of the base matrix ensures low levels of non-specific binding leading to low levels of host cell-derived impurities in the elution pool.
- Q Sepharose XL virus licensed and Q Sepharose XL are based on a highly cross-linked, bead formed 6% agarose matrix similar to the well established Q Sepharose Fast Flow media. Dextran chains are covalently coupled to the agarose matrix and modified with quaternary ammonium (Q) strong anion exchange groups through chemically stable ether bonds. The stable agarose matrix and long, flexible chains of dextran with bound charged groups work together to increase loading capacity whilst allowing high flow rates.
- Q Sepharose XL works very well for virus purification. It has excellent selectivity and capacity for adenovirus, a very important vector for gene based biopharmaceuticals. Q Sepharose XL virus licensed is a dedicated product for this application, as it is provided with a license for virus purification.
- As member of the BioProcess media range, Q Sepharose XL virus licensed meets industrial demands with security of supply and comprehensive technical and regulatory support.

STORAGE:
Store at 4 to 30°C in 20% Ethanol

Specifications	
BioProcess Media	Yes
Ligand	Quaternary amine
Average Particle Size	90µL
Ion Exchanger Type	Strong anion exchanger
Matrix	6% cross-linked agarose with dextran surface extenders
Particle Size	45 to165µm
Ionic Capacity	0.18-0.26mmol Cl^-/ml medium
pH Stabiliy Cleaning-in-Place	2-14
pH Stability Working Range	2-12
Pressure/Flow Specification	300-500cm/h
Storage Conditions	4 to 30°C, 20% Ethanol
Estimated Shelf Life from Manufacture Date	5 years
Chemical Stability	All commonly used buffers, nonionic detergents, 1M NaOH, 6M guanidine hydrochloride
Certificate of Analysis	Yes

Quantity	Mfr. No.		Each
300mL	17543701	**45-002-956**	811.57
25mL	17543710	**45-002-957**	158.64

GE™ Healthcare Capto™ S Chromatography Media

Used for fast, efficient capture and intermediate protein purification

- Rigid, high flow agarose matrix modified with dextran surface extenders and strong sulfonate cation exchanger
- Combination of high volume throughput and dynamic binding capacity at high flow for raise in productivity
- Withstands effective CIP procedure and is chemically stable
- Available in range of different bulk pack sizes and convenient pre-packed formats for easy scale-up and process development

45-002-958

STORAGE:
Store at 4° to 30°C in 20% Ethanol + 0.2 M Sodium Acetate

Specifications	
Media Type	BioProcess
Ionic Capacity	0.11 to 0.14mmol Na^+/mL medium
Particle Size	90µm (d_{50V})
pH Working Range	4 to 13
Binding Capacity	>100mg BSA/mL medium

Pack Size	Mfr. No.	Cat. No.	Each
100mL	17544101	**45-002-958**	432.55

GE™ Healthcare HiTrap™ Capto™ SP ImpRes and Capto™ Q ImpRes Prepacked IEX Columns

High-throughput medium for intermediate and polishing protein purification

- Combined properties of high binding capacity, high flow rate and low back pressure reduces process cycle times and improves productivity at process scale
- Rigid agarose matrix enables high bed heights and purification of viscous samples at high flow rates
- Screening of selectivity, binding and elution conditions, as well as small scale purifications
- HiTrap Capto SP ImpRes: With strong sulfonate cation exchanger coupled to a chemically modified, high-flow agarose matrix
- HiTrap Capto Q ImpRes: With strong quarternary anion exchanger coupled to a chemically modified, high-flow agarose matrix

45-002-519

STORAGE:
Capto SP ImpRes: Store in 20% ethanol, 0.2M sodium acetate at 4° to 30°C.
Capto Q ImpRes: Store in 20% ethanol at 4° to 30°C.

Specifications		
Column Volume	1mL	5mL
Column Dimensions	0.7 × 2.5cm	1.6 × 2.5cm
Maximum Flowrate	4mL/min.	20mL/min.
Max. Pressure (Over the Packed Bed During Operation)	3 bar (0.3 MPa) [42psi]	3 bar (0.3 MPa) [42psi]

Pack Size	Mfr. No.	Cat. No.	Each
HiTrap Capto Q ImpRes prepacked columns			
5 × 1mL	17547051	**45-002-520**	331.80
5 × 5mL	17547055	**45-002-521**	846.30
HiTrap Capto SP ImpRes prepacked column			
5 × 1mL	17546851	**45-002-518**	331.80
5 × 5mL	17546855	**45-002-519**	846.30

GE™ Healthcare HiScreen™ Capto™ S, Capto Q and Capto DEAE Prepacked IEX Columns

Designed for method optimization and parameter screening

45002529

- Fast, efficient, and cost-effective capture and intermediate protein purification
- Ready-to-use columns for convenient process development optimization
- Highly cross-linked agarose with dextran surface extender matrix
- Bed height of 10cm is designed to allow method optimization and parameter screening
- Easily connected in series to achieve 20cm bed height
- Small bed volume (4.7mL) gives fast result and minimal sample/buffer consumption
- Combines high capacity with high flow velocity and low backpressure to reduce process cycle times and increase productivity
- Reproducible results, scalable to BioProcess columns packed with the same chromatography media using the same linear fluid velocity
- Capto S: Strong cation (sulfonate group) exchange BioProcess™ medium
- Capto Q: Strong anion (quartenary amine group) exchange BioProcess medium
- Capto DEAE: Weak anion (diethylaminoethyl group) exchange BioProcess medium

STORAGE:
Capto S: Store at 4 to 30°C, 0.2 M Sodium Acetate in 20% Ethanol

Capto Q and Capto DEAE: Store at 4° to 30°C in 20% Ethanol

Description	Pack Size	Mfr. No.	Cat. No.	Each
HiScreen Capto Q	1 × 4.7mL	28926978	**45-002-529**	127.68
HiScreen Capto S	1 × 4.7mL	28926979	**45-002-530**	127.68
HiScreen Capto DEAE	1 × 4.7mL	28926982	**45-002-533**	136.36

GE™ Healthcare HiScreen™ Capto™ MMC Multimodal Prepacked Column

Allows binding of proteins at the conductivity of the feed material and solves specific purification challenges

45-002-531

- With innovative salt-tolerant ligand
- Weak multimodal cation exchanger with a different selectivity compared with traditional ion exchangers
- Highly cross-linked agarose matrix
- Ready-to-use columns for convenient process development optimization
- Bed height of 10cm HiScreen columns is designed to allow method optimization and parameter screening
- Can be easily connected in series to achieve 20cm bed height
- Small bed volume gives fast results and minimal sample/buffer consumption
- Reproducible results, scalable to BioProcess columns packed with the same media using the same linear fluid velocity

STORAGE:
Store at 4° to 30°C in 20% Ethanol.

Specifications	
Bed Volume	4.7mL
Bed Dimensions	7.7 × 100mm
Maximum Flow Velocity	600cm/hr.
Max. Pressure	3 bar (44psi)
Avg. Particle Size	75µm
Binding Capacity	>45mg BSA/mL medium
pH Stability (Working)	2 to 12
Column Material	Polypropylene
Bed Support	Filter

Description	Pack Size	Mfr. No.	Cat. No.	Each
HiScreen Capto MMC	1 × 4.7mL	28926980	**45-002-531**	144.53

GE™ Healthcare HiScreen™ Capto™ adhere Multimodal Prepacked Column

For intermediate purification and polishing of monoclonal antibodies after the protein A capture step

45-002-532

- Strong multimodal anion exchanger with N-benzyl-n-methyl ethanolamine ligand
- Offers alternative selectivity compared to traditional anion exchangers
- In flowthrough mode, removal of leached protein A, aggregates, host cell proteins, nucleic acids and viruses from MAbs is performed
- Antibodies pass directly through the column while the contaminants remain bound
- Highly cross-linked agarose matrix
- Ready-to-use columns for convenient process development optimization
- Bed height of 10cm is designed to allow method optimization and parameter screening
- Easily connected in series to achieve 20cm bed height

STORAGE:
Store at 4° to 30°C in 20% Ethanol.

Specifications	
Bed Volume	4.7mL
Bed Dimensions	7.7 × 100mm
Maximum Flow Velocity	600cm/hr.
Max. Pressure	3 bar (44psi)
Avg. Particle Size	75µm
pH Stability (Working)	3 to 12
Column Material	Polypropylene
Bed Support	Filter

Description	Pack Size	Mfr. No.	Cat. No.	Each
HiScreen Capto adhere	1 × 4.7mL	28926981	**45-002-532**	202.95

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

GE™ Healthcare HiScreen™ Q Sepharose™ and SP Sepharose™ Fast Flow IEX Columns

Designed for method optimization and parameter screening

45-002-541

- Ready-to-use column for convenient process development optimization and parameter screening
- Highly cross-linked agarose matrix with average bead size of 90µm
- Bed height of 10cm designed to allow method optimization and parameter screening
- 20cm bed height is acheived when it is connected in series
- Small bed volume (4.7mL) gives fast result and minimal sample/buffer consumption
- Reproducible results, scalable to BioProcess columns packed with the same chromatography media using the same linear fluid velocity
- Bed dimension: 7.7 × 100mm
- Matrix: 6% cross-linked agarose beads
- Average particle size: 90µm
- Max. flow velocity: 450cm/hr.
- Material (column hardware and column tube): polypropylene
- Column I.D.: 7.7mm

HiScreen Q FF

Media:

- pH stability working range: 2 to 12
- pH stability cleaning: 2 to 14
- Ion exchanger type: strong anion exchanger

HiScreen SP FF

Media:

- pH stability working range: 3 to 14
- pH stability cleaning: 4 to 13
- Ion exchanger type: strong cation exchanger

STORAGE:
For Q Sepharose: Stored at 4° to 30°C, 20% Ethanol

For SP Sepharose: Stored at 4° to 30°C, 20% Ethanol, 0.01M NaOH

Description	Packaging	Mfr. No.	Cat. No.	Each
HiScreen Q FF	1 × 4.7mL	28950510	**45-002-539**	110.55
HiScreen SP FF	1 × 4.7mL	28950513	**45-002-541**	113.64

GE™ Healthcare HiScreen™ Q Sepharose™ and SP Sepharose High Performance IEX Columns

Designed for method optimization and parameter screening

45-002-540

- Ready-to-use columns for convenient process development optimization and parameter screening
- Highly cross-linked agarose matrix with an average bead size of 34µm
- Bed height of 10cm designed to allow method optimization and parameter screening
- Easily connected in series to achieve 20cm bed height
- Small bed volume (4.7mL) gives fast result and minimal sample/buffer consumption
- Reproducible results, scalable to BioProcess columns packed with the same chromatography media using the same linear fluid velocity
- Bed dimension: 7.7 × 100mm
- Matrix: 6% cross-linked agarose beads
- Average particle size: 34µm
- Max. flow velocity: <150cm/hr.
- Material (column hardware and column tube): polypropylene
- Column I.D.: 7.7mm
- Flow velocity: P150cm/hr.

HiScreen Q HP

- Ionic capacity: 0.14 to 0.20mmol Cl^-/mL
- Ligand: quaternary amine
- Ion exchanger type: strong anion exchanger

HiScreen SP HP

- Ionic capacity: 0.15 to 0.20mmol Cl^-/mL
- Ligand: sulphopropyl
- Ion exchanger type: strong cation exchanger

STORAGE:
Q Sepharose HP: Stored at 4° to 30°C, 20% Ethanol

SP Sepharose HP: Stored at 4° to 30°C, 20% Ethanol, 0.2M Sodium Acetate

Description	Pack Size	Mfr. No.	Cat. No.	Each
HiScreen Q HP	1 × 4.7mL	28950511	**45-002-540**	138.75
HiScreen SP HP	1 × 4.7mL	28950515	**45-002-542**	132.44

LabReporter
QUARTERLY MAGAZINE

Fulfill all of your needs in the lab and catch up on the latest science news with LabReporter. Our free, quarterly magazine highlights the latest science news as well as our newest chemicals, consumables, equipment and life science products. Request to receive the digital or print edition at **www.fishersci.com**.

Specialty Extraction

Thermo Scientific™ Pierce™ Albumin Depletion Kit

Albumin-free serum samples in less than 15 minutes

Pierce Albumin Depletion Resin is supplied as a 50% slurry. Dispense 200µL of slurry into the supplied microcentrifuge spin columns to obtain 100µL of settled beads for the standard protocol. Each aliquot of resin can be used to process 10 to 50µL of serum sample in a single reaction. Processed samples are ready for immediate downstream analysis by electrophoresis or MS applications. The ease and versatility offered by the slurry format make this kit ideal for single- or multi-sample processing with the microcentrifuge spin columns supplied in the kit.

Highlights:

- Complete kit – includes optimized buffer and microcentrifuge spin columns to remove albumin quickly and conveniently from 10 to 50µL samples
- Easy-to-dispense slurry – improves performance, eases processing of multiple samples, and can be adapted to larger or smaller columns or 96-well filter plates
- Workflow compatible – removing excess albumin facilitates MS or electrophoresis gel analysis of low-abundance serum proteins

INCLUDES:
Resin slurry, binding-wash buffer, and microcentrifuge spin columns

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat No.	Each
Pierce Albumin Depletion Kit	24-rxn kit	Removing albumin from 24 human serum samples, 10 to 50µL each	3-component kit containing Cibacron Blue dye on beaded agarose resin (as 50% slurry)	Pierce Albumin Depletion Resin, 5mL Binding/Wash Buffer, 11mL Pierce Spin Columns, 24 columns	**PI85160**	243.71

Thermo Scientific™ Pierce™ Abundant Protein Depletion Spin Columns

Deplete abundant plasma proteins quickly and economically

The Pierce Top 2 Abundant Protein Depletion Spin Columns use highly specific immobilized anti-HSA and anti-IgG antibodies to remove human serum albumin (HSA) and all major subclasses of gamma globulin (IgG) from serum, plasma or spinal fluids. Similarly, the Pierce Top 12 Abundant Protein Depletion Spin Columns are designed to remove HSA, IgG and 10 other high-abundance proteins from human serum or plasma. The resins are provided in an economical and convenient spin column specifically designed one step processing and for single use.

Highlights:

- Optimized – resin in spin columns is scaled and optimized for treating 10µL (600µg) of human plasma samples for mass spectrometry and/or 1D and 2D electrophoresis
- Efficient – kits remove >90% of IgG and >95% of albumin, plus other abundant proteins (Top 12)
- Fast – process samples in 40 to 60 minutes (depending on resin)
- Economical – cost effective spin columns are priced for single use
- Reduce variability – One time use prevents abundant protein carryover and experimental variability
- Two resin options – choose the system appropriate for your need: 2 or 12 protein depletion columns

Top 2 Spin Columns Remove:

- Albumin
- IgG

Top 12 Spin Columns Remove:

- Albumin
- IgG
- α1-Acid Glycoprotein
- α1-Antitrypsin
- α2-Macroglobulin
- Apolipoprotein A-I
- Apolipoprotein A-II
- Fibrinogen
- Haptoglobin
- IgA
- IgM
- Transferrin

Item Name	Quantity	Sufficient For	Cat No.	Each
Pierce Top 2 Abundant Protein Depletion Spin Columns	6 columns	Removing albumin and IgG from 6 human serum samples, 10µL each	**PI85161**	162.47
Pierce Top 2 Abundant Protein Depletion Spin Columns	24 columns	Removing albumin and IgG from 24 human serum samples, 10µL each	**PI85162**	459.98
Pierce Top 12 Abundant Protein Depletion Spin Columns	6 columns	Removing 12 proteins from 6 human serum samples, 10µL each	**PI85164**	211.00
Pierce Top 12 Abundant Protein Depletion Spin Columns	24 columns	Removing 12 proteins from 24 human serum samples, 10µL each	**PI85165**	643.55

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Prices subject to change.

Thermo Scientific™ Pierce™ Streptavidin Resins

Resins with high biotin affinity and low nonspecific binding

Pierce Streptavidin Agarose and UltraLink Resins supply immobilized streptavidin biotin-binding protein in different resin formats, binding capacities and package sizes to suit nearly any immunoprecipitation or affinity purification procedure involving biotinylated molecules. The products use a recombinant form of streptavidin with a mass of 53 kDa and a near-neutral pI. The resins are prepared by covalently coupling streptavidin to the porous agarose or UltraLink Biosupport using efficient and stable chemistries, resulting in Streptavidin Agarose and UltraLink Resins that are leach-resistant and stable at pH 2-11. The products are excellent choices for a variety of small- or large-scale affinity purification applications involving biotinylated macromolecules, including separation of biotinylated molecules from samples and immunoprecipitation of antigens using biotin-labeled antibodies.

Streptavidin Agarose Columns, 1mL, 5 columns

Highlights:

- Proven coupling chemistries – the methods used to prepare these resins are superior to typical cyanogen bromide (CNBr) immobilization, providing high functionality, low nonspecific binding and excellent leach-resistance
- Versatile resins – Agarose (polysaccharide-based) and UltraLink™ Biosupport (acrylamide-based) resins provide two different options for particular experimental conditions and are compatible with gravity-flow, spin and FPLC methods
- Available in multiple formats – choose from two resin types, regular or high capacity preparations, and small or large-scale package sizes (bulk sizes are also available)
- Superior performance – High Capacity Resin has 2 to 3 times higher binding capacity than alternative supplier products, allowing use of small amounts of resin for experiments

Item-Specific Features:

- Agarose Resins are crosslinked 6% beaded agarose
- UltraLink Resins beaded acrylamide support (UltraLink Biosupport)
- Plus and High Capacity Resins have higher loading (i.e. density) of immobilized streptavidin protein than the regular forms

APPLICATIONS:

Purification of membrane antigens in conjunction with biotinylated monoclonal antibodies; Cell-surface labeling with biotinylation reagents, followed by precipitation with immobilized streptavidin; Purification of cell-surface glycoproteins using biotinylated Concanavalin A; Recovery of single-stranded DNA for dideoxy sequencing

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Streptavidin Agarose	2mL	Binding 15 to 28µg biotin/mL resin (1 to 3mg biotinylated BSA/mL resin)	Streptavidin on crosslinked 6% beaded agarose, slurried in water with sodium azide	**PI-20347**	203.62
Streptavidin Agarose	5mL	Binding 15 to 28µg biotin/mL resin (1 to 3mg biotinylated BSA/mL resin)	Streptavidin on crosslinked 6% beaded agarose, slurried in water with sodium azide	**PI-20349**	357.65
Pierce Streptavidin Agarose	10mL	Binding 15 to 28µg biotin/mL resin (1 to 3mg biotinylated BSA/mL resin)	Streptavidin on crosslinked 6% beaded agarose, slurried in water with sodium azide	**PI-20353**	532.78
Streptavidin Agarose Columns, 1mL	5 columns	Binding 15 to 28µg biotin per column (1 to 3mg biotinylated BSA per column)	5mL-capacity centrifuge columns containing 1mL resin	**PI-20351**	362.92
Streptavidin UltraLink Resin	2mL	Binding ≥ 24µg biotin/mL resin (≥ 2mg biotinylated BSA/mL resin)	Streptavidin on UltraLink Resin, slurried in water with sodium azide	**PI-53113**	242.65
Streptavidin UltraLink Resin	5mL	Binding ≥ 24µg biotin/mL resin (≥ 2mg biotinylated BSA/mL resin)	Streptavidin on UltraLink Resin, slurried in water with sodium azide	**PI-53114**	429.39
Streptavidin UltraLink Plus Resin	2mL	Binding ≥ 48µg biotin/mL resin (≥ 4mg biotinylated BSA/mL resin)	Streptavidin on UltraLink Resin, slurried in water with sodium azide	**PI-53116**	324.94
Streptavidin UltraLink Plus Resin	5mL	Binding ≥ 48µg biotin/mL resin (≥ 4mg biotinylated BSA/mL resin)	Streptavidin on UltraLink Resin, slurried in water with sodium azide	**PI-53117**	467.37
Pierce High Capacity Streptavidin Agarose	2mL	Binding ≥ 100µg biotin/mL resin (≥ 10mg biotinylated BSA/mL resin)	Streptavidin on crosslinked 6% beaded agarose, slurried in water with sodium azide	**PI-20357**	254.26
Pierce High Capacity Streptavidin Agarose	5mL	Binding ≥ 100µg biotin/mL resin (≥ 10mg biotinylated BSA/mL resin)	Streptavidin on crosslinked 6% beaded agarose, slurried in water with sodium azide	**PI-20359**	400.90
Pierce High Capacity Streptavidin Agarose	10mL	Binding ≥ 100µg biotin/mL resin (≥ 10mg biotinylated BSA/mL resin)	Streptavidin on crosslinked 6% beaded agarose, slurried in water with sodium azide	**PI-20361**	719.51
Pierce High Capacity Streptavidin Agarose Chromatography Cartridges, 1mL	2 cartridges	Binding ≥ 100µg biotin per cartridge (≥ 10mg biotinylated BSA per cartridge)	1mL resin cartridges with LC and Luer-Lok* Fittings	**PI-87739**	203.62
Pierce High Capacity Streptavidin Agarose Chromatography Cartridge, 5mL	1 cartridge	Binding ≥ 500µg biotin per cartridge (≥ 50mg biotinylated BSA per cartridge)	5mL resin cartridge with LC and Luer-Lok* Fittings	**PI-87740**	275.36

Virus Purification

EMD Millipore™ Fast-Trap™ Adenovirus and Lentivirus Purification and Concentration Kits

Quick, easy membrane-based method for laboratory-scale virus purification

FTAV00003

Fast-Trap Purification

- Saves time—protocol can be completed in less than two hours
- High yield—recover up to 70% of virus particles
- Dependable—simple protocol ensures quality results
- Easy—Steriflip™ filters eliminate messy purification steps and expensive equipment
- Safe—use a closed vacuum device to eliminate potential spills

STORAGE:
Store at room temperature.

INCLUDES:
Three Fast-Trap virus filter units, three Steriflip-HV filter units, 20mL 10X binding buffer, 100mL equilibration buffer, 200mL wash buffer, 21mL elution buffer, three Amicon™ Ultra-4 filter units, test tube stand

ALERTS:
These kits permit quick purification of infectious agents which should be handled under BSL2 safety precautions. Wear hand, eye, face, and body personal protective equipment (PPE) when using this kit. All virus purification steps (except water bath incubation and centrifugation) should be conducted in a biosafety cabinet.

Description	Yield	No. of Preps	Cat. No.	Each
Adenovirus Purification and Concentration Kit	Up to 1×10^{13} virus particles	3	**FTAV00003**	575.50
Lentivirus Purification and Concentration Kit	Up to 2×10^{8} virus particles	3	**FTLV00003**	516.50

General Purpose

Sartorius™ Vivaflow™ Crossflow Casettes

Ready-to-use laboratory crossflow cassettes in an acrylic housing

14-558-305

Optimally suited for applications like cell culture supernatant concentration, virus concentration and water concentration e.g. in fish breading facilities, this economical product offers a standard of ease of use, reliability and flexibility unrivalled by any laboratory filtration system in the market. The thinchannel, flip-flow recirculation path of the modules provides high crossflow velocities with minimum pump speed requirements. A single 50cm2 module typically reduces 500 ml to 15 ml in less than 50 min. Nearly total recovery of the concentrate is achieved with a single rinse. Up to six of the unique interlocking modules can be connected for easy scale up resulting in a capacity of several liters. Vivaflow 50 is intended for single use. All accessories for sample concentration, except a peristaltic pump with a pump head for size 16 tubing, are included in the package. A 500 ml sealed diafiltration reservoir can be added to the system for rapid and convenient buffer exchange.

- High flow rate and recovery
- Clear housing for process monitoring
- Ready to use single cassettes
  - Choose from Vivaflow 50 and Vivaflow 200

Vivaflow 50

A disposable and ready-to-use crossflow cassette for filtration and concentration of samples from 100 mL to 5L. The membrane surface per device is 50cm2. One pack contains two devices and comes with all necessary accessories for running two devices with a laboratory pump and a size 16 pump head. For speeding up the concentration and increasing the volume throughput, six cassettes can be connected.

- Easy set up of multiple cassettes
- Economical and disposable product

Equipment required

- The standard Vivaflow 50 package comes with two cassettes, tubing, flow restrictor, one series interconnector and high pressure pump tubing. All you need is a peristaltic pump with a pump head capable of handling 6.4mm OD tubing (size 16).
- Running more than two Vivaflow 50 devices in parallel and series
- For speeding up the concentration, as many as six Vivaflow 50 cassettes can easily be connected using 2 T-connectors for connecting 2 Vivaflow cassettes at the inlet and at the outlet and series interconnectors for connecting the devices in between. An optional pressure indicator (Fisher Cat# 14-558-332) may be used at the inlet for optimal control.

Unique in its performance

A single 50cm2 module will typically reduce 500mL to less than 15ml in under 50 minutes. Less than 10mL minimum system recirculation for highest concentrations. Less than 1.5mL non recoverable hold up volume. Near total recoveries achievable with a single 10mL rinse

MWCO	Mfr. No.	Cat. No.	Price
Vivaflow 50 Crossflow Cassettes			
100,000 Dalton	VF05C4	**14-558-305**	152.10
10,000 Dalton	VF05P0	**14-558-306**	152.10
5,000 Dalton	VF05P1	**14-558-307**	152.10
30,000 Dalton	VF05P2	**14-558-308**	149.70
50,000 Dalton	VF05P3	**14-558-309**	152.10
100,000 Dalton	VF05P4	**14-558-310**	152.10
10,000 Dalton	VF05C0	**14-558-304**	152.17
Pore Size: 0.2µm	VF05P7	**14-558-311**	152.10
3,000 Dalton	VF05P9	**14-558-312**	152.10

Contd. on next page

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Sartorius™ Vivaflow™ Crossflow Casettes, contd.

Vivaflow 200

Vivaflow 200 is a ready to use and reusable laboratory crossflow cassette for concentrating up to 5 l samples. The membrane surface per device is 200cm2. One unit comes with all necessary accessories for running the device with a laboratory pump and a size 16 pump head. For speeding up the concentration, two cassettes can be run simultaniously.

- Easy set up of 2 cassettes
- Re-usable product

14-558-315

Equipment required

- The standard Vivaflow 200 package comes with tubing, pressure indicator, flow restrictor and high pressure pump tubing. All you need is a peristaltic pump with a pump head capable of handling 6.4 mm OD tubing (size 16).
- Running 2 Vivaflow 200 cassettes in parallel
- For speeding up the concentration, two Vivaflow 200 cassettes can easily be connected using a Y connector which is preassembeled with the correct tubing sizes and fittings (size 16 tubing for connecting the two Vivaflow 200 units, size 15 tubing for the pump). Please note that you need a size 15 pump head for running 2 Vivaflows in parallel.

MWCO	Mfr. No.	Cat. No.	Price
Vivaflow 200 Crossflow Cassettes			
5,000 Dalton	VF20H1	**14-558-316**	388.00
30,000 Dalton	VF20H2	**14-558-317**	383.00
100,000 Dalton	VF20C4	**14-558-314**	388.00
10,000 Dalton, Hydrosart	VF20H0	**14-558-315**	388.00
30,000 Dalton	VF20P2	**14-558-320**	388.00
Pore Size: 0.2µm	VF20P7	**14-558-323**	388.00
50,000 Dalton	VF20P3	**14-558-321**	388.00
5,000 Dalton	VF20P1	**14-558-319**	388.00
10,000 Dalton	VF20P0	**14-558-318**	388.00
100,000 Dalton	VF20P4	**14-558-322**	388.00

Sartorius™ Complete System for Vivaflow™ Models

The Vivaflow 50 and Vivaflow 200 tangential flow modular concentrators offer significantly faster concentration with less hold-up than comparable devices

- Unique "flip-flow" thin channel flow path combines greatly increased cross-flow turbulence with low pump requirements

14-558-341

Vivaflow 200 complete system

- Can concentrate 1L up to 50 times in less than 30 minutes
- For faster filtration or for processing volumes of 5L or more, two Vivaflow 200 modules may be linked in parallel
- Includes pump (115 V), easy-load pump head (size 16), tubing, 500mL sample/diafiltration reservoir

Vivaflow 50 complete system

- Will concentrate volumes as small as 100mL down to less than 10mL in a few minutes
- Up to six interlinked modules can concentrate 3L over 50 times in 60 minutes
- Includes pump (115 V), easy-load pump head (size 16), tubing, 500 ml sample diafiltration reservoir, module stand, pressure indicator,
- T connectors, series interconnectors

Complete system	Mfr. No.	Cat. No.	Each
For Vivaflow 50	VFS504	**14-558-341**	1489.00
For Vivaflow 200	VFS204	**14-558-340**	1208.00

Looking for accessories? See www.fishersci.com

Specifications		
Model	Vivaflow 2000	Vivaflow 50
Overall Dimensions (L × W × H)	126 × 38 × 138mm	107 × 25 × 84mm
Volume range	0.5 to 5L	100mL to 5L
Hold-up volume (module)	5.3mL	1.5mL
Active Membrane Area	200cm^2	50cm^2
Operating pressure max.	4 bar	3 bar
Main housing	Acrylic	Polycarbonate (PC)
Flow channel	Acrylic	TPX (PMP)
Membrane support	Polypropylene (PP)	TPX (PMP)
Seal and O-rings	Silicone	Silicone
Pressure indicator	Polypropylene, Stainless-steel Spring	Polypropylene, Stainless-steel Spring
Flow restrictor	Polypropylene (PP)	Polypropylene (PP)
Fittings	Nylon	Nylon
Tibomg	PVC (medical grade)	PVC (medical grade)

Thermo Scientific™ Pierce™ Detergent Removal Spin Columns and Plates

Quickly remove detergents from protein and peptide samples before mass spectrometry

The Pierce Detergent Removal Resin specifically binds a wide variety of detergents and surfactants that are commonly used in protein extraction and biological sample preparation and provide an especially convenient and rapid format for treating protein and peptide solutions to remove interfering detergents before downstream analysis by mass spectrometry and other techniques.

Highlights:

- Fast and efficient protocol
- Removes >95% of detergents with high protein recovery
- Helps improves mass spectrometry peptide coverage
- Best for processing samples with proteins or peptides at greater than 100µg/mL (for low-concentration samples, consider the Thermo Scientific HiPPR Detergent Removal Products)

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
Thermo Scientific Pierce Detergent Removal Spin Columns, 125uL	25 columns	10 to 25µL sample with each column	Microcentrifuge columns containing 125µL of proprietary resin	**PI-87776**	146.65
Thermo Scientific Pierce Detergent Removal Spin Columns, 0.5mL	25 columns	25 to 100µL sample with each column	Microcentrifuge columns containing 0.5mL of proprietary resin	**PI-87777**	183.57
Thermo Scientific Pierce Detergent Removal Spin Columns, 2mL	5 columns	150 to 500µL sample with each column	Centrifuge columns containing 2mL of proprietary resin	**PI-87778**	97.06
Thermo Scientific Pierce Detergent Removal Spin Columns, 4mL	5 columns	500 to 1000µL sample with each column	Centrifuge columns containing 4mL of proprietary resin	**PI-87779**	132.93
Thermo Scientific Pierce Detergent Removal Resin	10mL	1 to 2.5mL of typical detergent-containing sample	Proprietary resin slurried in 150mM NaCl, 0.05% sodium azide	**PI-87780**	283.80
Pierce Detergent Removal Spin Plates, Thermo Scientific	2 plates	192 samples of 25 to 100µL each	96-well filter plates containing 0.55mL resin slurry per well; Includes 2 wash plates and 2 collection plates	**PI-88304**	464.20

Protein Quantitation

Thermo Scientific™ Pierce™ BCA™ Protein Assay

Faster and easier than the classic Lowry method

Pierce BCA Protein Assay Kit, 1L kit

Used in more labs than any other detergent-compatible protein assay, Pierce BCA Reagents provide accurate determination of protein concentration with most sample types encountered in protein research. The Pierce BCA Assay can be used to assess yields in whole cell lysates and affinity-column fractions, as well as to monitor protein contamination in industrial applications. Compared to most dye-binding methods, the BCA Assay is affected much less by protein compositional differences, providing greater protein-to-protein uniformity.

Highlights:

- Colorimetric – estimate visually or measure with a standard spectrophotometer or plate reader (562nm)
- Excellent uniformity – exhibits less protein-to-protein variation than dye-binding methods
- Compatible – unaffected by typical concentrations of most ionic and nonionic detergents
- Moderately fast – much easier and four times faster than the classical Lowry method
- High linearity – linear working range for BSA equals 20 to 2000µg/mL
- Sensitive – detect down to 5µg/mL with the enhanced protocol

INCLUDES:
Kits contain BCA Reagent A, BCA Reagent B, and 10 ampules of Albumin Standard (2mg/mL)

Item Name	Quantity	Sufficient For	Formulation	Kit Contents	Cat. No.	Each
Pierce BCA Protein Assay Kit	1L kit	500 tube assays or 5000 microplate assays	----	BCA Reagent A, 2 × 500mL BCA Reagent B, 25mL Albumin Standard Ampules, 2mg/mL, 10 × 1mL	**PI-23225**	180.41
Pierce BCA Protein Assay Kit	500mL kit	250 tube assays or 2500 microplate assays	----	BCA Reagent A, 500mL BCA Reagent B, 25mL Albumin Standard Ampules, 2mg/mL, 10 × 1mL	**PI-23227**	117.70
Pierce BCA Protein Assay Reagent A	250mL	----	Bicinchonic acid and tartrate in an alkaline carbonate buffer	----	**PI-23221**	59.08
Pierce BCA Protein Assay Reagent A	1L	----	Bicinchonic acid and tartrate in an alkaline carbonate buffer	----	**PI-23223**	130.82
Pierce BCA Protein Assay Reagent A	3.75L	----	Bicinchonic acid and tartrate in an alkaline carbonate buffer	----	**PI-23222**	448.38
Pierce BCA Protein Assay Reagent B	25mL	----	4% copper sulfate pentahydrate solution	----	**PI-23224**	45.37
Pierce BCA Protein Assay Reagent A	500mL	----	Bicinchonic acid and tartrate in an alkaline carbonate buffer	----	**PI-23228**	86.51

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Thermo Scientific™ Pierce™ BCA™ Protein Assay, Reducing Agent Compatible (RAC)

Superior colorimetric protein assay by minimizing interference from reducing agents

The BCA Protein Assay Kit - Reducing Agent Compatible (BCA-RAC) provides all of the advantages of the original BCA Assay, plus compatibility with disulfide reducing agents at concentrations routinely used in protein sample buffers. This special adaptation of the popular Pierce BCA Protein Assay method enables accurate protein concentration measurement for samples containing DTT, 2-ME or TCEP. Available in tube and microplate formats, these reducing agent compatible (RAC) BCA Kits extend the already broad reagent compatibility of the BCA Protein Assay protocol to include nearly all types of components commonly present in protein research samples.

Pierce BCA Tube Protein Assay Kit, Reducing Agent Compatible (RAC), 225mL kit

Highlights:

- Compatible – assay samples that contain up to 5mM DTT, 35mM BME, or 10mM TCEP
- BCA technology – only a slight modification of the standard BCA Protein Assay protocol (15-minute incubation with Compatibility Reagent); no precipitation steps required
- Small samples – requires only 25µL (standard kit) or less than 10µL (microplate kit) of sample
- Colorimetric – measure with a standard spectrophotometer or plate reader (562nm)
- Excellent uniformity – exhibits less protein-to-protein variation than dye-binding methods
- High linearity – linear working range for BSA equals 125 to 2000µg/mL

INCLUDES:
BCA Reagents A and B, Compatibility Reagent, Reconstitution Buffer, and Albumin Standard (2mg/mL); Microplate kit also includes assay-compatible 96-well microplates

Description	Sufficient For	Cat. No.	Price
Pierce BCA Microplate Protein Assay Kit, Reducing Agent Compatible (RAC)	980 microplate assays at 9µL each	**PI-23252**	229.99
Pierce BCA Tube Protein Assay Kit, Reducing Agent Compatible (RAC)	250 tube assays at 25µL each	**PI-23250**	229.99

Thermo Scientific™ Pierce™ Coomassie Plus™ (Bradford) Protein Assay

High-performance Bradford reagent

The Pierce Coomassie Plus Assay Reagent is a single, ready-to-use solution for measuring protein concentration. Simply add the reagent to equal volumes of samples and standards, mix, then measure the absorbance at 595nm. The assay costs only pennies per sample and can be performed in either test tube or microplate format. The Pierce Coomassie Plus Assay Reagent provides increased linearity of response and only half the protein-to-protein variability of other commercial Bradford assay formulations.

Pierce Coomassie Plus (Bradford) Protein Assay Kit

Highlights:

- Colorimetric – measure with a standard spectrophotometer or plate reader (595nm)
- Easy to use – single reagent; no working reagent preparation required
- Fast – almost immediate color development; add, mix, and read results
- Broad range – detects protein concentration in the range 1 to 1500µg/mL
- Better – improved linearity and response-uniformity compared to traditional Bradford formulations
- Flexible – microplate and cuvet protocols provided with the instructions and adaptable to several target working ranges

INCLUDES: Kit contains Protein Assay Reagent and 10 ampules of Albumin Standard

Item Name	Qty.	Cat. No.	Each
Pierce Coomassie Plus (Bradford) Protein Assay Kit	Kit	**PI-23236**	174.08
Pierce Coomassie Plus (Bradford) Protein Assay Reagent	300mL	**PI-23238**	142.43

Thermo Scientific™ Pierce™ Micro BCA™ Protein Assay

Specially formulated for measuring dilute protein solutions

The Micro BCA Protein Assay Kit is a specialized version of the popular Pierce BCA Protein Assay for determining the protein concentration of dilute samples. Mixing together the three Micro BCA Reagents results in a working solution that is sufficiently concentrated to measure protein when mixed with an equal volume of sample. The result is an assay for accurately measuring 0.5 to 20µg/mL protein solutions. The assay is exceptionally linear and exhibits very low levels of protein-to-protein variability.

Pierce Micro BCA Protein Assay Kit, 500mL Kit

Highlights:

- Sensitive – accurately detect down to 0.5µg/mL (2µg/mL in microplate format)
- High linearity – linear working range for BSA equals 0.5 to 20µg/mL
- Colorimetric – measure with a standard spectrophotometer or plate reader (562nm)
- Compatible – unaffected by typical concentrations of most ionic and nonionic detergents
- Convenient – microplate and cuvette protocols provided with the instructions
- Stable – kit stable at room temperature; prepared working reagent stable for to 24 hours

INCLUDES: Three Micro BCA Reagents (MA, MB, MC) and 10 ampules of Albumin Standard (2mg/mL)

Item Name	Quantity	Cat. No.	Each
Pierce Micro BCA Protein Assay Kit	500mL kit	**PI-23235**	205.73
Pierce Micro BCA Reagent A (MA)	240mL	**PI-23231**	55.92
Pierce Micro BCA Reagent B (MB)	240mL	**PI-23232**	102.34
Pierce Micro BCA Reagent C (MC)	12mL	**PI-23234**	33.76

Thermo Scientific™ Pierce™ Coomassie (Bradford) Protein Assay

Standard Bradford reagent formulation

The Pierce Coomassie Protein Assay Kit is a ready-to-use formulation of the popular assay reagent originally described by Bradford in 1976. When mixed with a protein solution, the acidic Coomassie-dye reagent changes color from brown to blue in proportion to the amount of protein present in the sample. Protein determinations are made by comparison to the color response of protein assay standards, usually prepared as a series of known dilutions of bovine serum albumin (BSA) or bovine gamma globulin (BGG). The kit includes Coomassie Protein Assay Reagent and a package of Albumin Standard Ampules. The simple procedure is adaptable to nearly any volume scale, including test tubes, cuvets and microplates.

Pierce Coomassie (Bradford) Protein Assay Kit, 950mL kit

Highlights:

- Bradford reagent – stable, ready-to-use kit of the classical Bradford assay reagent
- Colorimetric – measure with a standard spectrophotometer or plate reader (595nm)
- Easy to use – single reagent; no working reagent preparation required
- Fast – almost immediate color development; add, mix and read results
- Broad range – detects protein concentration in the range 1 to 1500µg/mL
- Flexible – microplate and cuvet protocols provided with the instructions and adaptable to several target working ranges

INCLUDES: Coomassie Protein Assay Reagent and 10 ampules of Albumin Standard

Item Name	Quantity	Sufficient For	Kit Contents	Cat. No.	Each
Pierce Coomassie (Bradford) Protein Assay Kit	950mL kit	630 tube assays or 3800 microplate assays	Pierce Coomassie Assay Reagent, 950mL Albumin Standard Ampules, 2mg/mL, 10 × 1mL	**PI-23200**	105.50

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Protein Staining

Thermo Scientific™ GelCode™ Blue Safe Protein Stain

Fast, sensitive, and safe stain in-gel protein detection

GelCode Blue Safe Protein Stain

GelCode Blue Safe Protein Stain is a Coomassie G-250 dye-based reagent for staining protein on polyacrylamide gels and membranes. GelCode Blue Safe Stain provides considerable sensitivity, allowing for the detection down to 9ng of protein. This protein-specific stain allows bands to be viewed directly on a gel or membrane during staining and is compatible with mass spectrometry applications. The staining process is simple and flexible, usually requiring a 15-minute incubation of the gel or sample with the GelCode Blue Safe Protein Stain, followed by a simple water wash to yield blue protein bands and a clear background. Because the supplied Activator Crystals are packaged and shipped dry in a separate bottle, GelCode Blue Safe Protein Stain is classified as nonhazardous under the U.S. Department of Transportation (DOT) shipping requirements.

- Sensitive and fast – detect down to 9ng of protein per band in 15 minutes
- Safe – noncorrosive to skin, nonflammable, and safe to ship and store until activated
- Convenient – water washes only; no acid-fixative or methanol destain solutions required
- Versatile – suitable for staining 1D and 2D polyacrylamide gels, nitrocellulose, and PVDF membranes (multiple protocols provided in the instructions)
- Compatible – useful for qualitative visualization, quantitative densitometry, and downstream excision and analysis by mass spectrometry
- Easy to use – add and dissolve activator crystals before first use, then simply add reagent to stain gels
- Stable – store non-activated or activated stain at room temperature for up to one year

Item Name	Quantity	Cat. No.	Each
GelCode Blue Safe Protein Stain	1L	**PI-24594**	97.92
GelCode Blue Safe Protein Stain	3.5L	**PI-24596**	200.55

Thermo Scientific™ Pierce™ GelCode™ Blue Stain Reagent

Ready-to-use, coomassie dye-based gel stain requires no destaining step

GelCode Blue Stain Reagent, 500mL

GelCode Blue Stain Reagent uses the colloidal properties of coomassie G-250 dye for polyacrylamide gel protein staining. This unique reagent stains only protein and, unlike traditional coomassie stains based on the R-250 form of the dye, allows bands to be viewed directly on the gel during the staining process. After staining, an optional water-wash step further enhances staining sensitivity and yields a clear background. With GelCode Blue Stain there is no need for multistep destaining procedures typically associated with other gel staining systems.

Highlights:

- No methanol-acetic acid destaining required – saves time, reduces reagent costs and minimizes solvent disposal
- Fast, one-step, one-hour staining – ready-to-use stain reagent; band development is visible directly in the staining tray; no background from overnight staining; flexible fixing and washing protocol; no gel shrinkage; stained gel can be dried
- More sensitive than standard Coomassie gel stains – some protein bands visible to 8ng; wide linear range for densitometric analysis; allows gel staining after Western transfer; compatible with MALDI-TOF analysis and sequence analysis
- Water wash increases staining sensitivity – optional step provides crystal-clear gel background and makes weakly stained bands more visible

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
GelCode Blue Stain Reagent	500mL	20 to 25 mini gels (SDS-PAGE)	Proprietary acidic solution of coomassie blue G-250 dye	**PI-24590**	78.54
GelCode Blue Stain Reagent	Ea.	140 to 175 mini gels (SDS-PAGE)	Proprietary acidic solution of coomassie blue G-250 dye	**PI-24592**	281.69

Thermo Scientific™ Pierce™ Glycoprotein Staining Kit

Detects glycoproteins on SDS-PAGE gels or Western blotting membranes

Pierce Glycoprotein Staining Kit, 750mL kit

The kit provides three essential reagents and a complete protocol to specifically stain glycosylated proteins (glycoproteins) that have been separated by polyacrylamide gel electrophoresis (PAGE). A gel or membrane containing separated proteins is treated with a periodate solution, which oxidizes cis-diol sugar groups in glycoproteins. The resulting aldehyde groups are detected through the formation of Schiff-base bonds with a reagent that produces magenta bands. Traditionally called the periodic acid-Schiff (PAS) reagent method, this staining technique is made easier by the convenient packaging of essential reagents in one kit with easy-to-follow instructions. The kit includes positive and negative control proteins.

Highlights:

- Specific for glycoproteins – periodic acid-Schiff (PAS) method specifically detects glycosylated proteins having sialic acid and other oxidizable carbohydrate groups
- Optimized protocol – the traditional three-reagent method has been streamlined to achieve optimal staining in less than two hours (half the time required for other staining methods)
- Colorimetric – glycoproteins are detected as magenta bands against a faint pink or colorless gel background
- Qualitative staining – detection limit depends on the extent of glycosylation and protein size and abundance; detects 0.625ng avidin and 0.16Â¦g horseradish peroxidase per band
- Controls included – complete kit includes positive and negative control proteins (HRP and STI, respectively).
- Gels and membranes – effective for use with polyacrylamide mini gels or nitrocellulose membranes

INCLUDES:
Three reagents in 250mL bottles (1 solution and 2 dry powders to which water must be added), plus two vials of lyophilized proteins (1mg each)

Item Name	Quantity	Sufficient For	Cat. No.	Each
Pierce Glycoprotein Staining Kit	750mL kit	10 mini gels (SDS-PAGE)	**PI-24562**	256.02

Thermo Scientific™ Pierce™ Silver Stain Kit

Reliability and optimization via flexible fixing and staining steps

Pierce Silver Stain Kit, 1L kit

The Pierce Silver Stain Kit is a metallic silver (Ag) protein stain that yields a remarkably clear and uniform gel background while delivering consistent, high-sensitivity staining results at each and every use. In standard mini gels, proteins are detectable at greater than 0.25ng per band or spot. The protocol has been optimized for flexibility by allowing short or overnight gel fixation and staining steps without affecting staining performance (sensitivity or clarity). A short (one-minute) sensitization step, performed after gel fixation, yields results that are free of the characteristically dark or blotchy backgrounds often seen with homemade or other commercially available silver stains. This feature is beneficial when performing densitometric analysis of silver stained gels.

Highlights:

- Sensitive silver stain – detect proteins at 0.25ng; equal or better sensitivity than monochromatic metallic silver stains from other suppliers
- Clear background – method produces intensely-stained protein gels with very low background color, shading or anomalies
- Robust performance – reagents and protocol are formulated to yield excellent staining results amidst even wide-ranging differences in user technique
- Rapid, flexible protocol – approx. 1.5 hours are required to complete the entire default procedure, but certain steps can be performed overnight or shortened with only minimal effects
- Gel-compatible – staining performance is very good with a variety of commercial precast mini-gels and SDS-PAGE buffer-systems
- Workflow-compatible – mild chemical formulation ensures compatibility with mass spectrometry, sequencing and other downstream procedures that depend on destaining and protein recovery

Additional Features:

- Gel fixation step can be completed in 30 minutes or overnight
- Gel staining can be performed within 5 min to 20 hrs, depending on required sensitivity

INCLUDES:
Sensitizer, stain, developer and enhancer solutions (1.03L total)

Item Name	Quantity	Sufficient For	Cat. No.	Each
Pierce Silver Stain Kit	1L kit	20 mini gels (SDS-PAGE)	**PI-24612**	140.17

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Pumps

Peristaltic

Fisher Scientific™ Variable-Flow Chemical Transfer Pump

Precise, seamless speed control with all-day performance

15-077-67

Achieves all-day pulseless fluid transfer at variable rates by way of stepless "continuous-sweep" variable speed control.

- Direct-drive engineering maximizes power for smooth-rolling pump action
- Pumps fluids from 0.12 to 2.2L/min. with viscosity to 200 centipoise (0.2 Pa•s) and demonstrates suction lift of 10' wet
- Tolerates fluid temperatures from -40° to +93°C (-40° to +200°F)
- Barbed outlet ports accommodate any type of tubing with an inside diameter of 0.2"
- Chemical-resistant, wetted parts are DuPont™ Delrin™, Type 304 stainless steel, Buna N and PTFE
- Chemical-resistant ABS case
- PURGE/PRIME switch allows for high-speed emptying and filling
- Reverses to expedite tube draining

ORDERING INFORMATION:
Dimensions: 8L × 4.75W × 4.5"H (20.3 × 12 × 11.5cm).

INCLUDES:
115V wall power supply

Flowrate Range	Cat. No.	Each
0.12 to 202L/min.	**15-077-67**	411.00

LOOKING FOR TUBING?

You'll find a complete selection in the Tubing Section.

Fisher Scientific™ Variable-Flow Peristaltic Pumps

Compact peristaltic pumps for use with liquids and gases

13-876-4

- Bidirectional flow with precise measured deliveries
- Excellent flow control and flexibility for transferring and dosing liquids
- Ultralow-, low-, medium- and medium-high-flow models feature flowrates from 0.005 to 600mL/min. and accept up to five different tubing sizes
- Revolution of one roller delivers a precisely measured volume specific to tubing size and motor speed control
- Variable-speed motor control and PURGE/PRIME switch for high-speed emptying and filling
- Reverse mode permits ease in draining tubing
- Three rollers reduce flow pulsation, prevent siphoning and eliminate the need for check valves
- Packaged in chemical-resistant ABS plastic case
- Autoclavable tubing may be used with fluid temperatures from -62° to +260°C (-80° to +500°F) and is ideal for food, pharmaceutical and other critical solutions

ORDERING INFORMATION:
Dimensions: 6.62L × 4.75W × 4.5"H (16.8 × 12 × 11.5cm).

INCLUDES:
Silicone tubing (0.03, 0.06, 0.09, 0.18 and 0.25" I.D.), polypropylene fittings/nipples, 115VAC power supply and accessory battery connector (battery not supplied)

Model	Flowrate Range	Cat. No.	Each
Ultralow Flow	0.005 to 0.900mL/min.	**13-876-4**	336.50
Low Flow	0.03 to 8.20mL/min.	**13-876-1**	336.50
Medium Flow	0.4 to 85.0mL/min.	**13-876-2**	336.50
Medium-High Flow	10.9 to 600mL/min.	**13-876-3**	617.00

Thermo Scientific™ FH10, FH15 and FH30 Peristaltic Tubing Pumps

Peristaltic pumps — enhanced and versatile performance in an ultra-compact, low-maintenance design

These peristaltic pumps — provided as complete pumping systems — are ideal where space is limited. Quality design in a small, compact package, these peristaltic pumps are provided complete with pump, motor and control in a stackable steel housing. Low-maintenance design provides thousands of hours of reliable service while meeting a wide range of fluid handling needs.

Wide Range of Performance

- Flowrates less than 2µL/min. to 105mL/min.
- Pressures up to 2.5 bars (30psig)
- Robust, fixed occlusion design allows reliable, accurate pumping and dispensing
- Supports wide variety of tubing materials and varying differential pressure applications

Easy-to-Use Controls

- Mounted on front panel
- Separate single-turn speed control
- Flow direction switch with center OFF position
- Green LED power ON indicator
- PRIME button runs pump at maximum speed to rapidly prime or flush tubing
- Reversible pump direction to purge tubing
- Remote start/stop terminal on back of unit

Easy to Maintain

- Simple, fast tubing changes
- Fixed occlusion eliminates adjustment after tubing changes and assures operation against pressure up to 2 bar (30psig)

High Purity Assured

- Most tubing materials exceed USP Class VI and EP (European Pharmacopeia) standards
- For the highest purity requirements use BioPharm silicone tubing

INCLUDES:
Peristaltic pump and power supply

REQUIRES:
Manufacturer-recommended peristaltic pump tubing for FH10/FH15/FH30 pump systems

CERTIFICATIONS:
UL, cUL (Power Supply) CE, RoHS, ISO9001:2008

Specifications	
Max. Pressure	2 bar
Material	Powder-coated steel
Volts	90/130V or 160/260V (autoselected)
Hertz	60/50
L × W × H	16.5 × 13.6 × 11.4cm (6.5 × 5.3 × 4.5")

Description	Flowrate	No. of Channels	Tubing	Mfr. No.	Cat. No.	Each
FH10 Peristaltic Pump System, 10rpm	0.015 to 0.08mL/min.	1	Uses microbore auto-analysis tubing size 0.19mm to 2.79mm I.D.	72-310-010	**13-310-510**	852.00
FH10 Peristaltic Pump System, 80rpm	0.12 to 0.7mL/min.	1	Uses microbore auto-analysis tubing size 0.19mm to 2.79mm I.D.	72-310-080	**13-310-512**	855.50
FH10 Peristaltic Pump System, 300rpm	0.48 to 2.9mL/min.	1	Uses microbore auto analysis tubing size 0.19mm to 2.79mm I.D.	72-310-300	**13-310-513**	855.50
FH15 Compact Peristaltic Pump System, 100rpm	0.8 to 105mL/min.	1	Uses size 13, 14, 16 and 25 tubing links	72-315-100	**13-310-514**	933.50
FH30 Compact Peristaltic Pump System, 100rpm	0.8 to 14mL/min. per channel	2	Uses size 13 and 14 tubing links	72-330-100	**13-310-515**	963.50

ON THE WEB...
Looking for Tubing for our FH Series Peristaltic Pump?
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Prices subject to change.

Thermo Scientific™ FH100 and FH100X General-Purpose Peristaltic Pumps

Peristaltic pumps — precision metering, seamless operation

The FH100 and FH100X units combine highly regarded peristaltic pump technology with innovative digital control to provide robust performance at an economical value. The broad flow range and variable speed make peristaltic pumps ideal for laboratories to pilot process scale-up requirements. The FH100 and FH100X tubing pumps are a reliable alternative to lab piston metering pumps, gear pumps and small circulating pumps used in life science laboratory applications.

Easy to Maintain

- Easy-to-use fluid handling system — simple control keypad with integrated pumphead
- Low maintenance with minimum downtime — new rapid loading pumphead allows tubing change in less than 30 seconds
- Space efficient — low-profile, stackable design with a small footprint
- Interface with other instrumentation — remote control capability
- Accurate, reliable control of flow and dosing — digital display of rpm for accurate control
- Self priming — able to operate dry, and contain no valves or seals eliminating replacement needs
- Fluid contacts only the tubing, providing for contamination-free pumping in high-purity applications

Easy-to-Use Controls

- Stop and start from the front panel
- Increase/decrease flow
- Select internal or external remote signal control

Remote Control Capability

- Start/Stop
- Flow direction (CW/CCW)
- Flow control via 4 to 20mA current or 0 to 10VDC
- Remote/local

INCLUDES:
Peristaltic pump, power cord, quick-start guide and manual on CD

REQUIRES:
Tubing to complete system; choose from three tubing grades:

- Thermo Scientific general purpose
- Thermo Scientific high-precision
- Thermo Scientific high-resilience (sold separately)

WARRANTY:
One year

CERTIFICATIONS:
ETL, cETL, CE, RoHS, ISO9001:2008

Description	Flowrate Capacity	Mfr. No.	Cat. No.	Each
FH100 General Purpose Peristaltic Tubing Pump	0.5 to 3000mL/min.	72-320-000	**13-875-409**	1242.00
FH100X General Purpose Peristaltic Tubing Pump	14 to 4000mL/min.	72-320-100	**13-875-410**	1145.00

Specifications	
Reversible	Yes
Operating Temperature	0° to 40°C
External Control - Input	4 to 20mA; 0 to 10V; Remote/Local; Dir (CW/CCW); Start/Stop
Voltage (AC) 60/50 (Hz)	90 to 260VAC Universal input
Speed Control	Digital phase-controlled
Speed Regulation (accuracy)	±0.25%
Motor Type	PMDC
Display (rpm)	Seven-segment, 3-digit, Blue LED, 1rpm resolution
Housing and Pumphead Construction	Housing: ABS; Pumphead: GF Nylon, Delrin™, stainless steel, cold-rolled steel, Buna N, polycarbonate
Shipping Weight	7kg (15 lb.)
IP Rating	ETL, cETL, CE, RoHS
Motor Size	1/10 (75w)
Rpm	4 to 400
Dimensions (L × W × H)	12.5 × 11 × 6" (31.7 × 27.9 × 15.2cm)
Pump Interlock	Yes
Current	1.6A @ 115V; 1.9A @ 230V

Thermo Scientific™ FH100D and FH100DX Dispensing Peristaltic Pumps

Peristaltic pumps for critical metering and dispensing applications–pump, dispense and fill all with one unit

The innovative FH100D and FH100DX peristaltic pump systems provide a number of important advantages for users, including single-channel variable flow from 0.5mL/min to 4000mL/min at a variable speed range of 4-400 rpm. The unit's powerful motor provides better than 0.25% percent speed control accuracy and repeatability as well as remote control operation.

Easy-to-use

- Simple to set up as continuous flow peristaltic pumps or dispensing systems
- Programmable in seven languages to provide easy setup in almost any global location
- Select from 15 different units (English and metric)
- Universal voltage and frequency capability allows operation worldwide
- IEC 320 socket allows power cord interchange to adapt to local country power plugs

Design

- Ideal for cell culture, cross-flow filtration, dispensing harvesting, sample preparation, spectroscopy, stem cell research, pH control and more
- Contamination-free pumping
- Packed with features yet value priced
- Optimize system accuracy by calibrating the pump system in process
- Calibration stored in memory — one calibration value per tubing size
- Loaded with broad range of remote control options — ideal for automated process applications
- Space efficient — low-profile, stackable design with a small footprint
- Interface with other instrumentation — remote control capability
- Accurate, reliable control of flow and dosing — digital display of rpm for accurate control
- Reversible pump direction to purge transfer lines or containers prior to use

REQUIRES:
Choose peristlatic pump tubing to meet your flow range requirements. FH General Purpose tubing; FH Precision tubing links, or HRT (high-resilience tube) elements.

Model Description	Flow Capacity	Mfr. No.	Cat. No.	Each
FH100D (thin wall)	0.5 to 3000mL/min.	72-320-200	**13-875-421**	2200.00
FH100DX (thick wall)	14 to 4000mL/min.	72-320-250	**13-875-422**	2200.00

13-875-421

WARRANTY: One year

COMPLIANCE: RoHS and WEEE

CERTIFICATIONS: ETL, cETL, and CE

Specifications	
Performance	
RPM	4 to 400
Reversible	Yes
Pump open door sensor	Yes
Electrical	
External control - input	0 to 20mA, 40 to 20mA or 0 to 10V; Scalable
External control - output	4 to 20mA, or 0 to 10V
Motor running logic	N.O. or N.C. (1A @ 24V)
Tachometer output	5V, TTL puls
Voltage (50/60Hz)	115/230V AC (auto selected)
Motor type	1/10 HP, (75w) PMDC
Control type	Digital phase-controlled
Speed resolution (repeatability)	±0.1rpm @ 4 to 400rpm
Speed regulation	±0.25% (full scale)
Physical	
Operating temperature	0° to 40°C (32° to 104°F)
Storage temperature	-25° to 65°C (-13° to +149°F)
Housing materials	Housing: ABS; Pumphead: GF Nylon, Delrin™, stainless steel, cold-rolled steel, Buna N, polycarbonate
Controller dimensions (L × W × H)	31.7 × 27.9 × 15.2cm (12.5 × 11 × 6")
Shipping weight	7kg (15 lb.)

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ FH100M Multichannel Peristaltic Pumps

Peristaltic pump providing multichannel pumping with the accuracy of flow control and a broad flow range

With flow ranges from 1.2 microliters per minute to 760 mL/min and three modes of operation: flow, timed flow and programmable cycle dispensing — FH100M Series multichannel peristaltic pumps can save considerable time and resources while greatly improving process efficiency. Featuring remote control of speed, pumping direction and start/stop/purge, FH100M peristaltic pumps are available with a wide range of interchangeable multichannel pump heads, drives and tubing and can deliver up to 12 channels simultaneously.

Ease of maintenance

- Cassette design provides fast tubing changes and eliminates hardware in other multi-channel designs
- Rugged motor and controls ensure long-term reliable operation

Easy-to-use

- Programmable in seven languages provides easy set-up in almost any global location
- Universal voltage and frequency capability allows operation worldwide
- IEC 320 socket allows power cord interchange to adapt to local country power plugs

Performance range

- Three modes of operation — Flow, Timed Flow and Programmable Cycle Dispensing
- Lower pulsation flow and higher accuracy at low volumes and low flow rates
- High repeatability on all channels
- Cassettes provide defined and repeatable occlusion conditions
- Choice of 4, 8 or 12 channel models (2, 4 and 6 channels when using the large cassettes)
- Create accurate, metered, parallel flows with difficult or multiphase fluids

Design

- Digital display of pump speed or percent of maximum speed or number of dispense cycles
- Full range of remote control easily interfaces unit with automated process applications
- Adjustable occlusion setting provides flow and pressure performance and optimizes tubing life
- Valveless replacement for diaphragm pumps, piston pumps

INCLUDES:
Pump head, drive and a full set of cassettes

13-875-424

REQUIRES:
Choose the tubing size to meet your flow requirements: FH General Purpose tubing, FH Precision Tubing links, of HRT (High-resilience tube) elements.

WARRANTY: 1 year

COMPLIANCE: RoHS and WEEE

CERTIFICATIONS: ETL, cETI and CE

Specifications	
Electrical	
External control - input	0 to 20mA, 40 to 20mA or 0 to 10V; Scalable
External control - output	4 to 20mA or 0 to 10V
Motor running logic	N.O. or N.C. (1A @ 24V)
Tachometer output	5V, TTL pulse
Voltage (50/60Hz)	115/230V AC (auto selected)
Motor type	1/10 HP, (75w) PMDC
Control type	Digital phase-controlled
Speed resolution (repeatability)	±1rpm @ 4 to 400rpm
Speed regulation	±0.25% (full scale)
Physical	
Operating temperature	0° to 40°C (32° to 104°F)
Storage temperature	-25° to 65°C (-25° to +149°F)
Housing materials	Housing: ABS; Pumphead: GF Nylon, Delrin™, stainless steel, cold-rolled steel, Buna N, polycarbonate
Controller dimensions (L × W × H)	31.7 × 27.9 × 15.2cm (12.5 × 11 × 6")
Shipping weight	7kg (15 lb.)

Model Description	Max. No. of Channels	No. of Rollers	Cartridges Included	Flow Capacity	Mfr. No.	Cat. No.	Each
2 to 200 rpm							
FH100M 4/6	One	6	2 Large	0.006 to 760mL/min.	72-320-046	**13-875-423**	2310.00
FH100M 4/8	One	8	4 Small	0.006 to 760mL/min.	72-320-048	**13-875-424**	2310.00
FH100M 8/3	One	3	4 Large	0.006 to 760mL/min.	72-320-083	**13-875-425**	2770.00
FH100M 8/5	One	4	8 Small	0.006 to 760mL/min.	72-320-084	**13-875-426**	2770.00
0.8 to 80 rpm							
FH100M 12/6	One	6	6 Large	0.0012 to 74mL/min.	72-320-126	**13-875-427**	3460.00
FH100M 12/8	One	8	12 Small	0.0012 to 74mL/min.	72-320-128	**13-875-428**	3460.00

Heidolph™ Peristaltic Pump Drives

Smooth start operation prevents spills and media splashing

- Multi-channels flow rates from 0.005 to 320mL/min.
- Can be upgraded for multi-channel operation with a pump head adaptor

PD 5001

- Variable speed can be adjusted on analog control knob from 10 to 600rpm
- Accuracy: ±2%
- Flow rates of 0.8 to 790mL/min. with single-channel pump heads
- Low speed range from 10 to 120rpm

PD 5101

- Control speed, direction and on/off function via analog interface for 0 to 10V or 4 to 20mA
- Variable speed can be adjusted on analog control knob from 5 to 600rpm
- Accuracy: ±3.5%
- Flow rates of 0.3 to 790mL/min. with single-channel pump heads
- Low speed range from 5 to 120rpm
- Connects to optional foot-pedal remote control via cable to start and stop pump drive outside a closed fume hood
- Operates clockwise or counter-clockwise
- Max button accelerates filling and draining of tubing

Model	Accuracy	Mfr. No.	Cat. No.	Each
PD 5001	±2%	036150130	**13-889-876**	1817.96
PD 5101	±3.5%	036150150	**13-889-877**	2631.81
PD 5201	±0.5%	036150170	**13-889-878**	3364.63

PD 5201

- Control speed, direction and on/off function via analog interface for 0 to 10V, 4 to 20mA or digital RS 232 interface
- Flow characteristic of pump heads in combination with various tubing diameters pre-programmed for accurate flow rate numbers
- All process parameters can be changed via control buttons
- Digital read-out of: speed, tubing diameter, flow rate in mL/min., dosing volume, interval dosing, pause function
- Accuracy: ±0.5%
- Flow rates of 0.3 to 790mL/min. with single-channel pump heads
- Low speed range from 5 to 120rpm
- Connects to optional foot-pedal remote control via cable to start and stop pump drive outside a closed fume hood
- Operates clockwise or counter-clockwise
- Max button accelerates filling and draining of tubing
- Calibrates flow volume and flow rate individually

13-889-877

13-889-878

INCLUDES:
Adaptor for multi-channel operation

Watson-Marlow™ Sci-Q 300 Series Peristaltic Pumps

For metering or transfer of fluids at flowrates up to 2000mL/min.

Available in four models to meet any laboratory pumping application.

- State-of-the-art brushless DC motor technology for precise speed regulation and quiet operation
- Ergonomic controls and large LCD display for pump speed in rpm, direction of rotation and run status

323S/D Standard Pump (14-284-118)

- General-duty pump for precise metering or transfer duties
- Flow range: 0.1-2000mL/min.
- Speed range: 3 to 400rpm (adjustable in 1rpm increments)

323E/D Economy Laboratory Pump (14-284-120)

- For general metering or transferring
- Flow range: 0.45-2000mL/min.
- Speed range: 15 to 400rpm (adjustable in 5rpm increments)
- 323S/MC4 Multichannel Tubing Pump (14-284-227) and 32S3/MC8

Multichannel Pump (14-284-228)

- Five-channel pump for metering and transferring
- Flow range: 0.001-53mL/min. (323S/MC4), 0.001-36mL/min. (323S/MC8)
- Speed range: 3 to 400rpm

323Dz/D Dosing/Dispensing Pump (14-283-6)

- Programmable dosing/dispensing pump
- Repeated dosing of volumes from 1mL to 1L
- Dose accuracy of ±1.0%
- Simple calibration; anti-drip, anti-splash functions
- Accessories make it a complete dispensing solution

14-284-118 with tubing (not included)

ORDERING INFORMATION:
For extending pump up to 6 channels use 14-283-106 (313X flip top). Dimensions: 9L × 9W × 5"H (23 × 23 × 13cm); for 110-120/220-240V 50/60Hz, single phase.

REQUIRES:
Tubing (sold separately; search for "Watson-Marlow Pump Tubing")

Model	Flowrate Range	Speed Range	Mfr. No.	Cat. No.	Each
323S/D	0.1 to 2000mL/min.	3 to 400rpm	030.3134.3DA	**14-284-118**	2764.44
323E/D	0.45 to 2000mL/min.	15 to 400rpm	030.3124.3DA	**14-284-120**	2090.00
323S/MC8	0.001 to 36mL/min.	3 to 400rpm	030.3134.8MA	**14-283-228**	3190.00
323Dz/D	0.1 to 2000mL/min.	3 to 400rpm	020.3512.0PA	**14-283-6**	5232.12

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Watson-Marlow™ Sci-Q 403U/VM Precision Multichannel Pumps

Precise two-, three- and four-channel pumps designed for flows from 0.001 to 17mL/min.

- Membrane keypad control with LED display for speed and direction
- Can be remotely controlled
- Accept manifold tubing to closely match the flow range
- Feature 10 stainless-steel rollers for low pulsation; spring-loaded tracks for long tube life
- With individual occlusion adjustment on each channel for precise flow control

ORDERING INFORMATION: For 100-120VAC 50/60Hz, single phase.

REQUIRES: Tubing (sold separately; search for "Watson Marlow Pump Tubing˝)

14-284-137

No. of Channels	Speed Range	Flow Range	Dimensions	Mfr. No.	Cat. No.	Each
2	0.5 to 10rpm	0.001 to 3.4mL/min.	6.87L × 4.25W × 4.5"H (17.7 × 10.5 × 11.3cm)	040.371V.M2A	**14-284-130**	3170.00
4	0.5 to 10rpm	0.001 to 3.4mL/min.	8.37L × 4.25W × 4.5"H (21.2 × 10.5 × 11.3cm)	040.371V.M4A	**14-284-132**	4017.96
2	2.5 to 50rpm	0.003 to 17mL/min.	6.87L × 4.25W × 4.5"H (17.7 × 10.5 × 11.3cm)	040.3K1V.M2A	**14-284-136**	3590.00
3	2.5 to 50rpm	0.003 to 17mL/min.	7.62L × 4.25W × 4.5"H (19.2 × 10.5 × 11.3cm)	040.3K1V.M3A	**14-284-137**	3772.08
4	2.5 to 50rpm	0.003 to 17mL/min.	8.37L × 4.25W × 4.5"H (21.2 × 10.5 × 11.3cm)	040.3K1V.M4A	**14-284-138**	4208.04
1	2.5 to 50rpm	0.06 to 150mL/min.	7.62L × 4.25W × 4.5"H (19.2 × 10.5 × 11.3cm)	040.3K1R.01A	**14-284-135**	3140.04

Wheaton™ Omnispense™ Plus Peristaltic Dispensing Pump

Designed for dispensing everything from perfume to cell culture media, as well as numerous liquids ranging in viscosity from aqueous solutions to medium syrups, all with ≤1% accuracy midrange

Full microprocessor controls, including programmable soft start. One-step volume calibration. Self-prompting LCD readout.

- Microprocessor stores up to 100 setups for quick recall
- Pump supports numerous tubing sizes (see chart below) and up to three pumpheads for easy multiple dosing
- Dispensed liquids remain contained within the tubing to allow for quick, noncontaminating changes
- Reverse-flow capability permits aspirating operations and relieves pressure in the tubing to help eliminate drips.
- Built-in constant-flowrate dispenser is fully programmable and delivers a preset volume over a specific period of time
- Multilanguage display prompts preset to English, but can easily be changed to French, German, Italian, Portuguese or Spanish
- Convenient handheld tubing holder with START and STOP switch allows remote filling or use under a hood
- External connection enables remote start/stop
- Built-in tubing support securely holds the tubing required to fill containers

ORDERING INFORMATION:
Dimensions:
12L × 6W × 10"H
(30 × 15 × 25cm).
Net weight: 15 lb. (6.8kg).

INCLUDES:
2.3mm pumphead

CERTIFICATIONS:
UL listed, CSA approved and CE marked.

13-687-441

Tubing Sizes	
Extended-life heavy-wall (2.3mm) tubing:	2, 3, 4.5, 6 and 8mm I.D.
Standard-wall (1.6mm) tubing:	0.8, 1.2, 1.6, 1.8, 2.4, 3.2, 4.8 and 6.4mm

Electrical Requirements	Mfr. No.	Cat. No.	Each
100-120V, 50/60Hz, 0.78A	W375020-A	**13-687-441**	4370.00

Before You Buy **Oil-Free Pumps**

Benefits of Oil-free Pumps

Oil-free vacuum pumps are ideal for use with all brands of rotary evaporators, concentrators, vacuum ovens, gel dryers and filtration devices. They provide high flow coupled with consistent vacuum while eliminating the mess of vacuum pump oils and the expense and waste of water aspirators. Models are available with corrosion-resistant wetted parts for maximum durability and low cost of ownership, even when working with aggressive vapors.

Matching the Pump to the Application

When selecting a vacuum pump consider:

1. **End vacuum** — The pump's ability to provide the amount of vacuum necessary to evaporate or dry the particular solvents.
2. **Flowrate** — The speed at which gases are passed through the pump at atmospheric pressure. The higher the flowrate, the faster the pump will evacuate the chamber.
3. **Chemical compatibility** — Select a pump with materials that are corrosion-resistant and suitable for the particular solvents in your application.
4. **Filtration, SPE, Desiccation and Degassing applications** — Consider the Mini-LABOPORT vacuum pumps (13-880-30, -32, -34 and 13-878-35).
5. **Added control of the Mini-LABOPORT pumps** — Consider the pumps featuring a vacuum gauge and regulator package (13-880-31, -33, and 13-878-50 and -52).
6. **Applications requiring precise control over the system vacuum** — Consider the LABOPORT vacuum systems (13-880-614, -615, -616, and -617) or the NEW SC920 and SC950 adaptive vacuum systems with wireless remote control (13-880-90 and -901).

Features To Look For

First-class pumps for first-class science

- Clean, oil-free vacuum performance
- Premium, corrosion-resistant wetted parts
- Tolerates wet vapors without damage
- Reliable, maintenance-free design
- Compact, small footprint
- Environmentally-friendly design; eliminates the need to monitor, change and dispose of contaminated pump oil
- Corrosion-resistant wetted parts; ideal for use with most common organic solvents in a wide variety of laboratory applications
- Proven durability; capable of ingesting small amounts of liquid without damaging the pump
- Quiet, compact design; requires little benchtop space and is a welcome addition to quiet labs

	810.3FTP	820.3FTP	840.3FTP	842.3FTP	860.3FTP
HIGH BP ROTARY EVAP.				•	•
MEDIUM BP ROTARY EVAP.		•	•		
LOW BP ROTARY EVAP.	•	•	•		
VACUUM OVENS		•	•	•	•
VACUUM CONCENTRATORS			•	•	•
GEL DRYERS		•	•		

Vacuum-Oil Free

Fisher Scientific™ MaximaDry™ Oil-Free Vacuum Pumps

Clean, reliable, oil-free vacuum pumps are ideal for use with rotary evaporators, gel dryers, filtration flasks and manifolds, vacuum ovens and concentrators

Quiet, reliable operation without the hazards of handling pump oil or contaminated water. Excellent replacement for rotary vane pumps and water aspirators, especially in applications where corrosive vapors are encountered.

- Two-stage vacuum to 1.5 torr
- Withstand aggressive gases and vapors — can be used with aggressive solvents without the risk of damaging the pump
- Single-piece diaphragm and molded pumpheads are made from PTFE to provide corrosion resistance
- High-flow multiport valves are made from tough Kalrez™ elastomers to withstand pumping heavy solvent vapors and liquid condensate without a loss in performance
- Fan-cooled (TEFC) motor is rated for continuous operation and never needs lubrication
- Compact design fits easily on a benchtop or in a fume hood
- Setup and disassembly are quick and easy and do not require any special tools

13-880 Series

ORDERING INFORMATION:
Plug into standard electrical outlet; no hardwiring required.

REQUIRES:
0.375" I.D. tubing

Head Configuration	Flow Rate	End Vacuum	Max Pressure	Motor hp	Weight	Dimensions (L × W × H)	Electrical Requirements	Mfr. No.	Cat. No.	Each
One Stage	20L/min.	75 torr	15psig	.16hp	21 lb. (9.5kg)	13 × 6.5 × 8.5" (33 × 16.5 × 22cm)	115V 60Hz	PU1306	**13-880-14**	1533.00
Parallel	40L/min.	65 torr	15psig	.16hp	21 lb. (9.5kg)	15 × 6.5 × 8.5" (38 × 16.5 × 22cm)	115V 60Hz	PU1307	**13-880-16**	2020.00
Two Stage	20L/min.	6 torr	15psig	.16hp	21 lb. (9.5kg)	15 × 6.5 × 8.5" (38 × 16.5 × 22cm)	115V 60Hz	PU1308	**13-880-18**	1921.00
Two Stage	35L/min.	6 torr	15psig	.33hp	27 lb. (12.2kg)	16 × 7 × 9" (40.6 × 17.8 × 23cm)	115V 60Hz	PU1309	**13-880-20**	2590.00
Two Stage	35L/min	1.5 torr	15psig	.33hp	27 lb. (12.2kg)	16 × 7 × 9" (40.6 × 17.8 × 23cm)	115V 60Hz	PU1310	**13-880-22**	3600.00

KNF™ Laboport™ Chemically Resistant Dry Vacuum Pumps

Quiet, reliable operation without the hazards associated with handling messy pump oils or contaminated wastewater generated by aspirators

Handle corrosive and aggressive vapors without damage.

- Oil-free
- Flowrates to 110L/min.
- End vacuums to 1.5 torr
- Feature solid PTFE heads and diaphragms to protect against corrosives and aggressive vapors
- Multiport Kalrez™ valves withstand the ingestion of condensed vapors without the risk of damaging the pump or degrading performance

13-878 Series

APPLICATIONS:
Recommended for: Rotary evaporators (13-878-27, -29, -35 and 13-880-430). Vacuum concentrators (13-878-29, -35 and 13-880-430). Gel dryers (13-878-27 and -29). Vacuum ovens (13-878-27, -29, -35 and 13-880-430). General vacuum applications (13-878-40, -42, -44, -46, 13-880-430 and -431)

ORDERING INFORMATION:
For 115V 60Hz; 230V models are also available. For information contact your Fisher Scientific™ Sales Representative.

Flowrate	End Vacuum	Max Pressure	Dimensions (L × W× H)	Weight	Mfr. No.	Cat. No.	Each
10L/min.	6 torr (29.7"Hg)	15psig	11 × 5.5 × 7.25" (27.9 × 13.97 × 18.5cm)	15.2lbs.	UN810.3 FTP-115V	**13-878-25**	2110.00
20L/min.	6 torr (29.7"Hg)	15psig	12.25 × 6.25 × 8" (31.2 × 16 × 20.3cm)	20.5lbs.	UN820.3 FTP-115V	**13-878-27**	2444.20
34L/min.	6 torr (29.7"Hg)	15psig	13 × 6.75 × 8" (33 × 17.3 × 22.3cm)	27.7lbs.	UN840.3 FTP-115V	**13-878-29**	3292.60
34L/min.	1.5 torr (29.8"Hg)	15psig	13 × 6.75 × 8.75" (33 × 17.3 × 22.3cm)	29.5lbs.	UN842.3 FTP-115V	**13-878-35**	4950.00
10L/min.	75 torr (26.9"Hg)	15psig	11 × 5.5 × 7.25" (27.9 × 13.97 × 18.5cm)	13.0lbs.	UN810 FTP-115V	**13-878-40**	1615.00
20L/min.	75 torr (26.9"Hg)	15psig	12.25 × 6.25 × 8" (31.2 × 16 × 20.3cm)	15.6lbs.	UN820 FTP-115V	**13-878-42**	1870.00
34L/min.	75 torr (26.9"Hg)	15psig	13 × 6.75 × 8.75" (33 × 17.3 × 22.3cm)	22.7lbs.	UN840 FTP-115V	**13-878-44**	2370.00
65L/min.	68 torr (27.2"Hg)	15psig	13 × 6.75 × 8.75" (33 × 17.3 × 22.3cm)	27.7lbs.	UN840.1.2 FTP-115V	**13-878-46**	3160.00
60L/min.	1.5 torr (29.8"Hg)	15psig	12.9 × 11.3 × 10.8" (33.1 × 29.1 × 27.8cm)	32.6lbs.	N860.3FTP	**13-880-430**	5130.00
110L/min.	75 torr (26.9"Hg)	15psig	12.9 × 11.3 × 10.8" (33.1 × 29.1 × 27.8cm)	32.6lbs.	N860.1.2FTP	**13-880-431**	5270.00

KNF™ Neuberger™ Laboport™ Filtration Pumps

Series of compact and lightweight pumps designed for for most common laboratory applications

No metal or coated-metal parts within the Ryton™ pumpheads; prevents pitting and corroding. Structured PTFE diaphragms supply consisent, reliable vacuum levels; not dependent on water pressure or temperature. Multiport Viton™ (13-880-34 and 13-878-52 only) or Kalrez™ valves exhibit high tolerance to occasional liquid condensate, so a trap is not required except in those applications where large volumes of liquid are anticipated.

- Oil-free
- Low maintenance
- Small footprint; requires little bench space
- Available as stand alone or with vacuum gauge/regulator assembly
- Available with a dampened analog vacuum gauge and a fine regulating valve to provide simple adjustment of system vacuum levels

13-878-38 and 13-878-50

- For bottletop filtration and disposable filtration assemblies with collection flasks <500mL

13-880-34 and 13-878-52

- For bottletop filtration, disposable filtration assemblies with collection flasks >500mL; glass filtration assemblies with flasks <1L; and to replace one aspirator

13-878 and -880 Series

13-880-32 and 13-880-33

- For vacuum manifold filtration; glass filtration assemblies with flasks >1L; vacuum dot-, spot- and slot-blots; and to replace a house vacuum port or two aspirators

13-880-30 and 13-880-31

- Ideal for solvent filtration and degassing and vacuum desiccation

ORDERING INFORMATION:
For all 115V/60Hz Laboport pumps, 230V/50Hz configurations are also available. For Dry Ice Cold Trap, search Cat. No. 13-878-57 or contact a Fisher Scientific™ Sales Representative.

Flowrate	End Vacuum	Max Pressure	Dimensions (L × W × H)	Weight	Mfr. No.	Cat. No.	Each
With Vacuum Gauge/Regulator Assembly							
5.5L/min.	120 torr (25.2"Hg)	35psig	7.12 × 3.5 × 6" (18 × 9 × 15cm)	4.25 lb. (1.9kg)	UN86KT.45P-115V	**13-878-50**	780.00
13L/min.	75 torr (27"Hg)	7.4psig	7.87 × 3.5 × 6.75" (20 × 9 × 17cm)	5.5 lb. (2.5kg)	UN811KV.45P-115V	**13-878-52**	863.08
16L/min.	15 torr (29.3"Hg)	7.4psig	14.25 × 3.5 × 5.5" (36 × 9 × 14cm)	8.75 lb. (4kg)	UN816.3KT.45P-115V	**13-880-31**	1410.00
30L/min.	120 torr (25.2"Hg)	7.4psig	14.25 × 3.5 × 5.5" (36 × 9 × 14cm)	8.75 lb. (4kg)	UN816.1.2KT.45P-115V	**13-880-33**	1410.00
Pump Only							
30L/min.	120 torr (25.2"Hg)	7.4psig	14.25 × 3.5 × 5.5" (36 × 9 × 14cm)	8.75 lb. (4kg)	UN816.1.2KTP-115V	**13-880-32**	1179.00
16L/min.	15 torr (29.3"Hg)	7.4psig	14.25 × 3.5 × 5.5" (36 × 9 × 14cm)	8.75 lb. (4kg)	UN816.3KTP-115V	**13-880-30**	1179.00
5.5L/min.	120 torr (25.2"Hg)	35psig	7.12 × 3.5 × 6" (18 × 9 × 15cm)	4.25 lb. (1.9kg)	UN86KTP-115V	**13-878-38**	647.00
13L/min.	75 torr (27"Hg)	15psig	7.87 × 3.5 × 6.75" (20 × 9 × 17cm)	5.5 lb. (2.5kg)	UN811 KVP-115V	**13-880-34**	744.00

KNF™ PowerDry™ Vacuum Pumps

Designed for use in rotary evaporation, simple distillation, vacuum ovens and other applications involving wet vapors

During cleaning cycle, the electronically controlled purge valve provides a burst of ambient air that rapidly clears any accumulated moisture from the pumpheads out through the discharge port. Maintains vacuum levels by closing the pump suction valve during the purge cycle.

- Integrated controller cycle times are factory set for optimum performance and are field adjustable
- Premium, corrosion-resistant PTFE and Kalrez™ resins used throughout
- Oil-free for contamination-free pumping
- Easily disassembled for occasional cleaning without special tools
- Pump 13-880-10 includes .5" hose barb; all others include .375" hose barb

ORDERING INFORMATION:
For all 115V 60Hz listed in table, 230V 50Hz units are available; contact your Fisher Scientific™ Customer Service Representative.

13-880-13

Flowrate	End Vacuum	Max. Pressure	Dimensions (L × W × H)	Weight	Mfr. No.	Cat. No.	Each
60L/min.	3 torr	15psig	13 × 11.25 × 11" (33 × 29 × 28cm)	32.75 lb. (14.8kg)	UN860.3FT.40P	**13-880-10**	6650.00
34L/min.	8 torr	15psig	13 × 6.5 × 8.5" (33 × 17 × 22cm)	28.5 lb. (12.9kg)	UN840.3FT.40P	**13-880-12**	4300.00
20L/min.	8 torr	15psig	12.5 × 6.25 × 7.75" (32 × 16 × 20cm)	21 lb. (9.6kg)	UN820.3FT.40P	**13-880-13**	3210.00
34L/min.	3 torr	15psig	13.3 × 7.4 × 9.4" (34.1 × 18.9 × 24.2cm)	30.1lbs. (13.7kg)	N842.3FT.40P	**13-880-401**	5061.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

KNF™ Neuberger™ 316SS Vacuum Pumps and Compressors

Designed for gas transfer applications (except two-stage) and for use with rotary evaporators, dryers, distillers, filtration devices and as a general vacuum source for the lab

Pump corrosive gases without the need for cold traps, drinking water or pump oil.
Eliminate the need to dispose of aspirator-generated wastewater or spent pump oil.

- Maximum pressure 60psig (two-stage model is vacuum only)
- Type 316 stainless-steel and PTFE wetted parts
- Easily disassemble without the need for special tools
- Pump thread size is 1/4 NPTF

ORDERING INFORMATION:
For all 115V/60Hz. 230V/50Hz units are available; contact your Fisher Scientific™ Sales Representative to order.

13-878-8

Free Flow at Capacity 60Hz	End Vacuum	Max Pressure	Dimensions (L × W × H)	Weight	Mfr. No.	Cat. No.	Each
30L/min.	75 torr (27"Hg)	60psig	10 × 5.50 × 10" (25 × 14 × 25cm)	27.5 lb.	UN035 STP-115V	**13-878-4**	1717.00
56L/min.	75 torr (27"Hg)	60psig	11 × 10 × 10" (28 × 25 × 25cm)	37.4 lb.	UN035.1.2 STP-115V	**13-878-6**	2500.75
30L/min. (Vacuum only)	10 torr (29.5"Hg)	--	11 × 10 × 10" (28 × 25 × 25cm)	37.4 lb.	UN035.3 STP-115V	**13-878-8**	2737.27

Welch™ DryFast™ Tuneable Chemical-Duty Vacuum Pumps

Designed for use with rotary evaporators, concentrators and vacuum ovens

Use these oil-free DryFast vacuum pumps for applications requiring chemical resistance. All fume contact surfaces are PTFE/fluorinated for low maintanence, oil-free dry operation. Vacuum adjusts easily using advanced vapor management knob.

- Convenient vacuum control knob
- All models are 115V 60Hz; weigh less than 25 lb. (11.4kg)
- Connect using 0.25" (7mm) I.D. tubing
- **Rotary evaporation:** Select a 2 torr model for fast evaporation of DMF, a 9 torr model for midrange (~100° C) boiling solvents or the 40 torr Collegiate model for volatile solvents like DCM
- **Filtration:** Collegiate model (35L/min.) provides vacuum for up to 3 funnels; select a high flow (70L/min) model for up to 8
- **Vacuum Ovens:** High-flow 2 torr models for ovens P2 cu. ft.; select high flow (70L/min) for larger oven

INCLUDES:
Pump, 6' power cord and plug. (115V AC have US Standard plug.)

CERTIFICATIONS:
CSA, CE marked.

01-257-502

Model	Free Air Displacement	Ultimate Pressure	Dimensions (L × W × H)	Cat. No.	Each
PTFE Dry Pumps for <50°C Boiling Point Solvents					
2014B-01†	35L/min.	40 torr (28.3"Hg)	12 × 7 × 8.3" (30.5 × 17.8 × 21.1cm)	**01-257-156**	1598.09
DryFast Pumps for <100°C Boiling Point Solvents					
2034B-01†	25L/min.	9 torr (29.6"Hg)	13.87 × 6.87 × 8.87" (35.2 × 17.2 × 22.3cm)	**01-257-502**	2291.80
2044B-01†	35L/min.	9 torr (29.6"Hg)	13.87 × 6.87 × 8.87" (35.2 × 17.2 × 22.3cm)	**01-257-508**	2690.00
2037B-01†	50L/min.	50 torr (28.5"Hg)	13.87 × 6.87 × 8.87" (35.2 × 17.2 × 22.3cm)	**01-257-504**	2519.08
2047B-01†	70L/min.	35 torr (28.5"Hg)	13.87 × 6.87 × 8.87" (35.2 × 17.2 × 22.3cm)	**01-257-510**	3010.00
DryFast Ultra Pumps for <160°C Boiling Point Solvents					
2032B-01†	25L/min.	2 torr (29.85"Hg)	13.87 × 6.87 × 8.87" (35.2 × 17.2 × 22.3cm)	**01-257-500**	3273.41
2042B-01†	35L/min.	2 torr (29.85"Hg)	13.87 × 6.87 × 8.87" (35.2 × 17.2 × 22.3cm)	**01-257-506**	3693.64

†Adjustable vacuum model

Welch™ Standard-Duty Vacuum Pumps

Compact, economical WOB-L™ pumps for aqueous applications

- Ideal for filtration, vacuum ovens, aspiration and chamber roughing
- Protect against accidental ingestion
- Wetted parts resist corrosion from moisture

ORDERING INFORMATION:
For 115V 60Hz. All pumps weigh less than 25 lb. (11.4kg).

INCLUDES:
Liquid trap on inlet, vacuum gauge and adjustment knob, exhaust muffler, suction cup feet and handles for convenient transportation

ALERTS:
May be used with buffer solutions but are not recommended for use with acids, bases or organic vapors.

01-051-1A

Flowrate	Ultimate Vacuum	Dimensions (L × W × H)	Mfr. No.	Cat. No.	Each
22L/min.	100 torr (26"Hg)	8.1 × 8.8 × 10.1"	2522B-01	**01-051-1A**	697.50
34L/min.	70 torr (27.2"Hg)	8.1 × 8.8 × 10.1"	2534B-01	**01-051-1B**	774.38
45L/min.	60 torr (27.6"Hg)	10 × 7.5 × 9"	2546B-01	**01-258-11**	873.00
99L/min.	9 torr (21.3"Hg)	11 × 9 × 11"	2580B-50	**01-257-76**	2270.74
100L/min.	5 torr (29.8"Hg)	17 × 8 × 12"	2581B-50	**01-257-113**	2710.00
100L/min.	60 torr (27.6"Hg)	15 × 7 × 11"	2567B-50	**01-258-10**	1592.00
201L/min.	60 torr (27.6"Hg)	17 × 8 × 12"	2585B-50	**01-257-73**	2250.00

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Prices subject to change.

Before You Buy **Vacuum Pumps**

Welch

APPLIED VACUUM TECHNOLOGY

Welch Application Specific pumps make your vacuum work right for you – time after time

- **Reputation for Performance** — Quality and design dictated by your application needs
- **Green by Design** — Efficiency and safety in your lab environment
- **Style and Utility** — Advanced product design

Full Service Vacuum Company

Welch pumps are not a one-time sale. Purchase of a Welch pump is only the beginning of our commitment to make your job easier through properly applied vacuum technology.

Support — ready access to expert advice from Welch reps and Tech Support Line

Service — fast in-house repairs with environmentally safe handling processes

Flexibility — broadest range of designs to address every application

Product Selection

Chemical Vapor Applications

- **Rotary Evaporation and Centrifugal Concentrators** – Moderate vacuum, moderate flow, chemical resistance and excellent vacuum regulation
- **Schlenk Line Manifold** – Deep vacuum RVP and moderate flow to enable cold trapping
- **Freeze Dryer** – Deep vacuum RVP and high flow. Augment unit condenser with pump features that mitigate chemical damage
- **Vacuum Oven** – High flow, moderate to high vacuum. Cold trapping required to protect air quality and pumps with less chemical resistance

Aqueous Vapor Applications

- **Filtration** – Low to moderate vacuum, moderate flow, regulation desirable
- **Aspiration** - Low to moderate vacuum, moderate flow, regulation and features to prevent pump liquid ingestion
- **Vacuum Oven** - Moderate to high vacuum, high flow. Cold trapping recommended to prevent condensation in pump
- **Glove boxes** – Vacuum level dictated by box design, high flow
- **Gel drying** – High flow, moderate vacuum, liquid trapping required, PTFE pump recommended

	DRYFAST PTFE	SELF-CLEANER PTFE	STANDARD DRY	DIRECT DRIVE RVP	DUOSEAL RVP
Deep Vacuum					
High Flow					
Moderate Flow					
Chemical Resistance					
Vacuum Regulation					
Electronic Control					

Key:
Recommended
Model Specific

Vacuum-Rotary

Fisher Scientific™ Maxima™ C Plus Vacuum Pumps

Designed for easy use with lab equipment such as freeze dryers, vacuum ovens and centrifugal concentrators

Design features

- Come standard with exhaust filter
- Ultimate vacuum to 1×10^{-4} torr
- Convenient carrying handle and nonskid base
- Overload protection on all single-phase models

Corrosion resistance

- Black oxide coating on pump module, PTFE coated oil case
- Stainless-steel valves, fasteners, baffle plates and Viton™ elastomers
- Maxima Vacuum Pump Oil (included) is hydrotreated to minimize aromatics and sulfur, providing good resistance to sludge and varnish formation over time in corrosive environments

Accept different size vacuum tubing

- Eliminate need for specialized tubing reducers
- Inlet connection on all pumps accepts two hose I.D. sizes to easily connect either a large or a smaller I.D. hose from the pump to the apparatus

Easy oil change

- Faucet-style valve opens and closes easily to allow oil to flow out of the case in a steady, controlled manner with minimal mess
- Oil case is coated with PTFE so that particulates do not cling to the sides of the case

ORDERING INFORMATION:
International and explosion-proof models are available through your Fisher Scientific Sales Representative.

01-257-77

INCLUDES:
Pump with hose clamp, funnel, change of oil, oil mist eliminator

REQUIRES:
Explosion-proof models do not have a plug and must be hardwired.

CERTIFICATIONS:
CE marked, CSA approved.

ALERTS:
Not recommended for filtration, aspiration or drying electrophoresis gels. These drying processes occur in the rough vacuum level (above 30 torr [40mbar]). These vane pumps are not designed for high-pressure operation. Pumps should not be operated continuously at pressures above 10 torr. Dry ice trap is recommended for vacuum ovens and concentrators.

Model	M2C	M4C	M6C	M8C	M12C	M16C
Free Air Displacement						
@ 60Hz	1.8cfm (51L/min.)	2.6cfm (73L/min.)	3.8cfm (108L/min.)	6.1cfm (173L/min.)	7.7cfm (218L/min.)	11.3cfm (320L/min.)
@ 50Hz (international)	2.6m³/hr. (43L/min.)	3.7m³/hr. (61L/min.)	5.4m³/hr. (90L/min.)	8.6m³/hr. (144L/min.)	10.9m³/hr. (182L/min.)	16m³/hr. (267L/min.)
Ultimate Vacuum	2×10^{-3} torr (0.0027mbar)	1×10^{-4} torr (0.00013mbar)	1×10^{-4} torr (0.00013mbar)	1×10^{-4} torr (0.00013mbar)	3×10^{-4} torr (0.0004mbar)	4×10^{-4} torr (0.00053mbar)
Sound Level	52dBA	50dBA	50dBA	50dBA	54dBA	55dBA
Motor/Pump Speed (60Hz)	3450rpm	1725rpm	1725rpm	1725rpm	1725rpm	1725rpm
Motor Power	.25hp	.5hp	.5hp	.5hp	.75hp	.75hp
Oil Capacity	0.42 qt. (0.4L)	1.0 qt. (0.95L)	0.9 qt. (0.86L)	0.8 qt. (0.76L)	1.3 qt. (1.2L)	1.2 qt. (1.1L)
Accepts Tubing I.D.	.1875,.4375"	.4375, .8125"	.4375, .8125"	.4375, .8125"	.5625, .8125"	.5625, .8125"
Intake Thread Type	Hose barb	Hose barb	Hose barb	Hose barb	Hose barb	Hose barb
Exhaust Thread Type	.75–20	1–20	1–20	1–20	1–20	1–20
Dimensions (L × W × H)	14.12 × 5.12 × 8.37" (35.9 × 13 × 21.3cm)	18.5 × 6.5 × 9.62" (47.1 × 16.5 × 24.3cm)	18.5 × 6.5 × 9.62" (47.1 × 16.5 × 24.3cm)	18.5 × 6.5 × 9.62" (47.1 × 16.5 × 24.3cm)	20.5 × 7.12 × 10.75" (52.1 × 17.9 × 27.2cm)	21.25 × 7.12 × 10.75" (53.8 × 17.9 × 27.2cm)
Shipping Weight	26 lb. (11.8kg)	46 lb. (21kg)	46 lb. (21kg)	53 lb. (24kg)	63 lb. (30.8kg)	77 lb. (34.6kg)
For 115V 60Hz, single phase						
Cat. No.	**01-257-77**	**01-257-78**	**01-257-79**	**01-257-80**	**01-257-81**	**01-257-82**
Each	2550.00	3050.00	3290.00	3470.00	3990.00	4320.00
For 230V 50Hz, single phase						
Cat. No.	**01-257-83**	----	----	**01-257-84**	**01-257-85**	----
Each	2740.00	----	----	3460.00	3970.00	----
With Explosion-Proof Motor, 115V 60Hz						
Cat. No.	----	**01-257-87**	----	**01-257-88**	**01-257-89**	**01-257-90**
Each	----	4220.00	----	4580.00	5120.00	5450.00

Looking for Maxim C Plus Accessories?

Fisher Scientific offers a wide range of Pump accessories from Pump Oil, to filters, and repair kits.

Visit www.fishersci.com and search for Maxima C Plus Accessories

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Prices subject to change.

Welch™ Gem™ Vacuum Pumps and Systems

Designed for rotary evaporations with high boiling point solvents

Rugged gear pumping mechanism operates over a wide range of pressures. Efficiently pumps vapors without condensing them into the pump.

- Effective evaporation for DMSO and other high boiling point solvents
- Adjustable vacuum to prevent bumping
- Gear pump mechanism is tolerant of vapors
- Exhaust mist eliminator prevents oil loss
- Free air displacement: 31L/min. (1.1cfm)
- Ultimate vacuum: 0.1 torr
- Oil capacity: 0.5 qt. (0.45L)
- Accepts tubing: 10mm I.D.

ORDERING INFORMATION:
Dimensions: 14.5L × 5.12W × 14.37"H (36.8 × 13 × 36.3cm).
Net weight: 27.5 lb. (12.5kg). For 115V 60Hz.

INCLUDES:
Exhaust mist eliminator

COMPLIANCE:
CSA approved.

Welch Gem Vacuum Pumps and Systems

Description	Mfr. No.	Cat. No.	Each
For Rotovaps and vacuum manifolds	8890A-70	**01-129-1**	2970.00

Welch™ Chemstar™ Belt-Drive Pumps

Designed for pumping corrosive gases below 1 torr

Corrosion-resistant construction resists chemical attack. Operate at rotational speeds of less than 580rpm and feature a large oil reservoir to maintain pumping efficiency — even in dirty applications.

- Rugged, low-maintenance pump for tough applications
- Ultimate vacuum, 13.3MPa (1×10^{-4} torr)
- Low temperatures, degassing and large reservoir extend oil lifetime
- Gas bubbler allows uniform injection of dry nitrogen into the oil reservoir, degassing the pump fluid and lowering the operating temperature of the oil
- Pump and motor are mounted on steel base

INCLUDES:
Pump, V-belts, pulleys, belt guard, oil supply, 3-wire cord, plug, inline switch and instructions

NOTES:
Use only DirecTorr™ Gold Synthetic Pump Oil in Chemstar Vacuum Pumps.

01-107-3

Model	Free Air Displacement	Motor Power	Pump Speed	Oil Capacity	Dimensions (L × W × H)	Ship. Wt.	Mfr. No.	Cat. No.	Each
1400	25L/min. (0.9cfm)	.33hp	580rpm	0.62 qt. (0.59L)	17.75 × 9 × 12.62" (45 × 23 × 32cm)	68 lb. (31kg)	1400N-01	**01-107-3**	2818.11
1402	160L/min. (5.6cfm)	.5hp	525rpm	2.25 qt. (2.1L)	19.25 × 12.25 × 15.62" (49 × 31 × 39cm)	128 lb. (58kg)	1402N-01	**01-107-4**	4140.00
1376	300L/min. (10.6cfm)	1hp	525rpm	2.5 qt. (2.37L)	19.25 × 14 × 15.37" (49 × 36 × 39cm)	177 lb. (80kg)	1376N-01	**01-107**	5700.00

Welch™ Direct-Drive High-Vacuum Pumps

Compact, portable, two-stage direct-drive pumps suitable for vacuum ovens, freeze dryers, concentrators and chambers

All models are an efficient two-stage design for continuous high vacuum operation. Use gas ballast valve to prevent condensation of vapors and to remove water vapor contamination from oil reservoir. Not for continuous operation at pressures above 10 torr.

- Available in pumping ranges of 1.8 to 11.3cfm (51 to 320L/min.)
- Ultimate pressure to 1×10^{-4} torr (based on model)
- Aluminum UNIBARB™ style inlet connector accepts two sets of tubing I.D. (3/16 to 13/16" [5 to 20mm]) and has a screen
- Outlet connector has a 1-20 thread (Model 8905A has a 3/4-20 outlet connector thread)
- Models 8907, 8912 and 8917
- Include integral isolation valve to prevent oil and air contamination of the system in the event of a power failure.

INCLUDES:
Line cord, switch, plug and vacuum oil

CERTIFICATIONS:
115V models are CSA certified; 230V models are available online or contact your Fisher Scientific™ Sales Representative

01-115-4

Free Air Displacement	Ultimate Vacuum	Oil Capacity	Accepts Tubing I.D.	Dimensions (L × W × H)	Net Weight	Mfr. No.	Elec. Reqts.	Cat. No.	Each
Model 8905									
51L/min. (1.8cfm)	2×10^{-3} torr	0.5 qt. (0.4L)	.1875, .4375" (5, 11mm)	14.12 × 5.12 × 8.37" (35.9 × 13 × 21.3cm)	24.5 lb. (11.1kg)	8905A	115V 60Hz	**01-115-4**	2619.90
Models 8907									
73L/min. (2.6cfm)	1×10^{-4} torr	1 qt. (1L)	.4375, .8125" (11, 20mm)	18.5 × 6.5 × 9.62" (47.1 × 16.5 × 24.3cm)	40 lb. (18.1kg)	8907A	115V 60Hz	**01-257-11**	3092.96
Models 8912									
108L/min. (3.8cfm)	1×10^{-4} torr	0.87 qt. (0.9L)	.4375, .8125" (11, 20mm)	18.5 × 6.5 × 9.62" (47.1 × 16.5 × 24.3cm)	41 lb. (18.6kg)	8912A	115V 60Hz	**01-257-13**	3470.00
Models 8917									
173L/min. (6.1cfm)	1×10^{-4} torr	0.75 qt. (0.8L)	.4375, .8125" (11, 20mm)	18.5 × 6.5 × 9.62" (47.1 × 16.5 × 24.3cm)	48 lb. (22kg)	8917A	115V 60Hz	**01-257-15**	3717.62
Model 8920									
218L/min. (7.7cfm)	3×10^{-4} torr	1.25 qt. (1.2L)	.5625, .8125" (11, 20mm)	20.5 × 7.06 × 10.75" (52 × 17.9 × 27.2cm)	58.5 lb. (26.6kg)	8920A	115V 60Hz	**01-115-8**	4100.00
Model 8925									
320L/min. (11.3cfm)	4×10^{-4} torr	1.25 qt. (1.1L)	.5625, .8125" (11, 20mm)	21.25 × 7.06 × 10.75" (53.8 × 17.9 × 27.2cm)	69 lb. (31.3kg)	8925A	115V 60Hz	**01-115-10**	4528.27

Welch™ DuoSeal™ High-Vacuum Pumps

Rugged, durable pumps are ideal for demanding applications such as Schlenk drying lines, freeze drying, vacuum distillations, concentrating and degassing

The ruggedness is a result of reduced frictional wear (less than 580rpm vs. typical 1750rpm direct-drive pumps) and high contamination tolerance (contaminants diluted due to large oil capacity).

- Dual-voltage models come wired for lowest voltage listed in specifications chart; may be converted to higher voltage listed by rewiring
- Wiring diagram supplied with each model
- All models are single phase

INCLUDES:
V-belts, pulleys, belt-guard, oil supply, 3-wire cord (except 01-105-1 which must be conduit wired), plug, inline switch and instructions

01-100

Model	Free Air Displacement	Vacuum (Ultimate)	Motor Power	Pump Speed	Oil Capac.	Dimensions (L × W × H)	Ship. Wt.	Mfr. No.	Cat. No.	Each
One Stage										
1380	160L/min. (5.6cfm)	2Pa (1.5×10^{-2} torr)	.5hp	525rpm	3.75 qt. (3.5L)	20 × 12 × 15" (51 × 31 × 38cm)	116 lb. (53kg)	1380B 01	**01-107-1**	3680.00
1399	35L/min. (1.2cfm)	2Pa (1.5×10^{-2} torr)	.3hp	750rpm	0.5 qt. (0.47L)	17 × 9 × 10" (43 × 23× 25cm)	61 lb. (28kg)	1399B 01	**01-103**	2080.00
Two Stage										
1374	650L/min. (23cfm)	13.3MPa (1×10^{-4} torr)	1.5hp	510rpm	1.25 qt. (1.2L)	26 × 13.75 × 18.75" (66 × 35 × 48cm)	231 lb. (105kg)	1374B 01	**01-105-1**	7840.00
1376	300L/min. (10.6cfm)	13.3MPa (1×10^{-4} torr)	1hp	525rpm	2.5 qt. (2.4L)	20 × 14.12 × 15.37" (51 × 36 × 39cm)	177 lb. (80kg)	1376B 01	**01-106**	4910.00
1402	160L/min. (5.6cfm)	13.3MPa (1×10^{-4} torr)	.5hp	525rpm	2.25 qt. (2.1L)	20 × 12 × 15" (50 × 30.5 × 38cm)	128 lb. (58kg)	1402B-01	**01-100**	3392.75
1405	90L/min. (3.2cfm)	13.3MPa (1×10^{-4} torr)	.5hp	525rpm	0.25 qt. (0.24L)	20 × 12 × 15" (50 × 30.5 × 38cm)	128 lb. (58kg)	1405B-01	**01-099**	3232.28
1400	25L/min. (0.9cfm)	13.3MPa (1×10^{-4} torr)	.3hp	580rpm	0.62 qt. (0.59L)	17.75 × 9 × 12.62" (45 × 23 × 32cm)	68 lb. (31kg)	1400B-01	**01-096**	2357.50

International Model for 115/230V 50Hz available on special order.

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Prices subject to change.

Welch™ Freeze Dryer Pumps

Special application direct-driven pump designed for harsh chemical mixtures like TFA, TFA byproducts, acetonitrile and HBr that are removed during sample drying

Oil is continuously filtered through micron filter paper and acids are neutralized using Al_2O_3 pellets. The large, 1.4 qt. (1.3L) oil capacity dilutes organic vapors that mix with the pump oil during the freeze drying run. Includes DirecTorr™ Gold synthetic oil, which has excellent resistance to chemical attack.

01-257-91

- Ultimate vacuum of 1×10^{-4} torr
- Continuous acid neutralization and oil filtration
- Large oil capacity extends service intervals
- 1725rpm pump speed, .5hp
- Aluminum UNIBARB™ style inlet connector accepts two sets of tubing I.D. (.4375 and .8125" [11 and 20mm]) and has a screen
- Exhaust connector has a 1-20 thread

ORDERING INFORMATION:
Dimensions: 18.625L × 11.5W × 9.625"H (47.2 × 29.2 × 24.4cm);
Net weight: 55 lb. (25kg).

CERTIFICATIONS:
115V 60Hz model is CSA approved; 115V.

Free Air Displacement	Ultimate Vacuum	Mfr. No.	Cat. No.	Each
173L/min. at 60Hz (6.1cfm)	1×10^{-4}torr	8917A-80	**01-257-91**	5070.00

Welch™ Self-Cleaning Vacuum System

01-129-19

Complete oil-free dry vacuum systems for rotary evaporators and concentrators

Corrosion-resistant PTFE diaphragm vacuum systems enable superior evaporation control and efficiency. Preserve your sample and your time with rapid, controlled solvent stripping from flasks up to 5L. Use 2 torr models for fast stripping of DMF. Programmable model enables walk-away control for up to five vacuum/time methods for two solvent samples.

- Automatic
- Self-cleaning purge maintains efficiency, extends diaphragm life
- Free air displacement: 35 L/min (1.2 CFM)
- Incremental ballast switch enables fast response to bumping/foaming
- Inlet and exhaust separators protect pump and lab air from contaminants
- Select 9 torr model for atmospheric B.P to 120°C; 2 torr model to B.P. 160°C

ORDERING INFORMATION:
Dimensions: 13.62L × 12W × 11.3"H (34.5 × 30.5 × 28.1cm).
Net weight: 30 lb. (13.6kg).

CERTIFICATIONS: CE, CSA

Model	Vacuum Level	Electrical Requirements	Mfr.No.	Cat. No.	Each
2025 Analog Gauge	9 torr	115V 60Hz	202501	**01-129-19**	3820.03
2025 Analog Gauge	9 torr	230V 50Hz	202503	**01-129-20**	3330.00
2027 Digital Gauge	2 torr	115V 60Hz	202601	**01-257-120**	4539.76
2026 Analog Gauge	2 torr	115V 60Hz	202701	**01-257-121**	4783.97
2028 Programmable	2 torr	115V 60Hz	202801	**01-257-154**	6000.00

Gast™ Lubricated Rotary Vane-Type Pressure/Vacuum Pumps

Available with or without gauges and regulator

- Pressure up to 25psig (172kPag) for intermittent service and 20psig (138kPag) for continuous service
- Maximum vacuum: 27" (69cm) of Hg
- Free-air displacement: 1.3 cu. ft. (37L)/min.
- Free-air delivery: 0.9 cu. ft. (27L)/min. at 10psig (69kPag)
- .16hp ball-bearing motor

Standard Pump

- With combined oiler and intake filter, visible oil trap, two serrated hose connections for .25" (6.4mm) tubing foot bracket and cord with switch
- Without gauges, regulators or handle

Pump with Gauges and Regulator

- Same as 01-093 pump, except with 2" (5cm) pressure gauge calibrated from 0 to 30psig (0 to 207kPag); 2" (5cm) vacuum gauge calibrated from 0 to 30"Hg (0 to 102kPag)
- Includes vacuum and pressure regulator and handle

01-093

ORDERING INFORMATION:
Dimensions: 12.75L × 8W × 7.5"H (32.4 × 20 × 19cm).

Model	Electrical Requirements	Mfr. No.	Cat. No.	Each
Standard	115V 60Hz, 4.4A	0211V11BG8CX	**01-093**	817.50
With Gauges and Regulator	115V 60Hz, 4.4A	0211V45GG8CX	**01-093-5**	1125.00

Gast™ Lubricated Rotary Vane-Type Vacuum Pumps

Similar to 01-093-5 pump, but with higher free-air displacement

- Pressure to 15psig (103kPag)
- Vacuum to 27"Hg (92kPag)
- With 128L/min. (115V model) free-air displacement or 106L/min. (230V model)
- Fan-cooling, self-adjusting vanes
- Lubricator, exhaust trap, vacuum and pressure gauges and regulators, bleeder, hose nipples
- Carrying handle and foot support
- Intake filter with 10µm filter element

INCLUDES:
Pump, power-supply cord with ON/OFF switch

01-094 Series

Air Delivery at 15psig (103kPag)	Electrical Requirements	Mfr. No.	Cat. No.	Each
7.1cfm (204L/min.)	115/230V 50/60Hz, 10.8/5.4A	0823 V4B-G608X	**01-094-24**	1087.00
3.2cfm (91L/min.)	115V 60Hz, 7.0A	0523 V4A-G588DX	**01-094-25**	1792.00

Gast™ Oil-Less Diaphragm-Type Pressure/Vacuum Pump

Pressure/vacuum pumps with .125hp motor for medium pressure and solid vacuum applications

Includes vacuum and pressure regulators.

- Produce maximum gauge pressure of 60psig (413kPag)
- Vacuum to 25" (84kPag)
- Separate vacuum and pressure gauges, graduated from 0 to 60psig (5psig increments) and 0 to 25"Hg (1/2"Hg increments)
- ON/OFF switch on pump body
- Aluminum housing with rubber feet and handle
- Hose connection diameters, .375" O.D. × .25" I.D. (9.5 × 6.4mm)

ORDERING INFORMATION:
Overall dimensions: 7.75L × 6.5W × 10.75"H
(19.7 × 16.5 × 27.3cm). Net weight: 15 lb. (6.81kg).

INCLUDES:
Pump and power cord

Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 60Hz, 4.2A	DOA P104 AA	**01-092-29**	638.50

01-092-29

Gast™ Oil-Less Piston-Type Pressure/Vacuum Pumps

For air sampling, pressure/vacuum filtration, degassing solutions

Use with therapeutic equipment and flame photometers.

- Pressure/vacuum pumps with .16hp motors
- Produce maximum gauge pressure of 100psig (689kPag) or vacuum of 25"Hg (84kPag)
- Separate vacuum and pressure gauges, graduated from 0 to 30"Hg (0 to 102kPag) and 0 to 100psig (0 to 689kPag), respectively
- Free-air flow: 1.3 cu. ft. (37L)/min.

ORDERING INFORMATION:
Dimensions: 15L × 8W × 10.75H (38 × 20.3 × 27.3cm). For 115V 60Hz.

INCLUDES:
Pump, vacuum and pressure regulators, moisture trap, intake filter, handle, rubber suction-cup feet and line cord and plug with ON/OFF switch

01-092-25

Electrical Requirements	Mfr. No.	Cat. No.	Each
115V 60Hz, 3.9A	1HAB25BM100X	**01-092-25**	864.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

BrandTech™ Vacuubrand™ BVC Fluid Aspiration Systems for Cell Culture

BVC fluid aspiration systems are the first to account for the needs of a modern biology laboratory

Basic, Control and Professional models to serve your fluid aspiration needs.

- 2 or 4L vessels for safe collection and disposal of your biological waste
- Autoclavable hydrophobic 0.2µm biofilter protects the pump or other vacuum supply from biohazardous aerosols
- The VacuuHandControl (VHC) keeps all fluid within the aspiration tubing for the ultimate in containment and cleaning convenience
- G models feature a 2L glass collection vessel with scratch and fragment protection coating and true bleach resistance
- Standard versions include a 4L heavy duty polypropylene vacuum bottle for increased capacity
- Control and Professional models feature powerful Vacuubrand chemistry design vacuum pumps with exceptionally long service life and enough power for two users
- Streamlined design incorporates bottle, controls and pump (Control and Professional models), in a lab friendly small footprint
- Quick connectors are supplied with the standard (non-G) Professional, but can be added to the other five models

BVC Basic

- The unpowered version, suitable for use with a VACUU LAN vacuum network, central vacuum system or shared pump
- Provides a suitable vacuum level in the bottle for aspiration and shuts off connection to the line when appropriate vacuum level is reached
- Supplied with a stable and easy-to-clean powder coated metal stand, 0.2µm aerosol filter and VacuuHandControl
- Available in heavy duty polypropylene or bleach resistant glass versions

BVC Control

- The BVC Control features a powerful whisper-quiet Vacuubrand chemistry-design vacuum pump, eliminating the need for central vacuum supply
- Potentially biohazardous materials can be contained in a local area
- The pump is turned on and off automatically on demand when using the VacuuHandControl which further reduces the noise level
- An easy to clean touch panel adjusts and indicates the vacuum level switchpoint
- Available with either a 4L polypropylene or 2L bleach resistant glass bottle

BVC Professional

BVC Professional

- Includes an external liquid level sensor, which operates without contacting bottle contents
- A special disinfection program allows the aspiration of disinfectant after the system is shut down to decontaminate the VacuuHandControl
- The 4L polypropylene bottle version is supplied with quick connectors as standard
- The 2L glass bottle "bleach proof" version includes hose barb connections; optional quick connectors are available

Description	Mfr. No.	Cat. No.	Each
BVC Basic Aspirator	727000	**13-688-005**	1067.44
BVC Basic G Aspirator	727100	**13-688-006**	1189.00
BVC Control Aspirator 100-120V	727203	**13-688-008**	2170.00
BVC Control G Aspirator 100-120V	727303	**13-688-010**	2233.58
BVC Professional Aspirator 100-120V	727403	**13-688-012**	2593.80
BVC Professional G Aspirator 100-120V	727503	**13-688-014**	2640.00

Vacuum-Specialty

Thermo Scientific™ Air Cadet™ Portable Vacuum/Pressure Station

Features lightweight, plastic housing and an integral handle for easy transport

- Vacuum to 54.1cm (21.3") Hg
- Pressure to 35psi intermittent, 10psi continuous
- Free-air capacity 0.39cfm
- Quiet operation
- ON/OFF switch operation
- No vacuum oil required
- Low-friction piston service-free motor
- Convenient power cord compartment

ORDERING INFORMATION:
115V model features a U.S. standard plug.

INCLUDES: 6' power cord

CERTIFICATIONS:
UL and CSA listed for 115VAC, 60Hz model.

ALERTS:
Do not pump liquids or immerse pump. Avoid organic, basic and acidic vapors.

13-875 Series

Specifications	
Wetted Parts	Glass-filled polyester piston cup retainer and head, Ryton™ cylinder sleeve, Viton™ valves, PTFE piston cup, silicone tubing and Delrin™ fittings
Port Size	54.1cm (0.25") Hose Barb
Motor	1/25 hp, Shaded-Pole
Overall L × W × H	11.4 × 19.3 × 19cm (4.5 × 7.62 × 7.5")
Max Temperature	40°C (104°F)
Shipping Weight	2.3kg (5 lb.)

Air Displacement	Electrical Requirements	Mfr. No.	Cat. No.	Each
0.39cfm (11L/min.)	115V 60Hz, 1.6A	400-3910	**13-875-240**	337.49

Thermo Scientific™ Air Cadet™ Single-Head Vacuum/ Pressure Pumps

- TEFC, totally enclosed, fan-cooled
- Subfractional, 1/45hp motor
- ON/OFF switch for convenient control
- Pumphead Materials: Dacron™-reinforced Viton™, Valox™, PTFE and polyethylene components

13-310-485

115V Model

- Capacity: 17L/min.
- Motor Speed: 1550rpm
- Max. Pressure: 1.24 bar
- Max. Vacuum: 508mmHG

INCLUDES: PTFE sealing tape, two 0.38" (9.5mm) polyethylene hose barb adapters and 6' (1.8m) three-wire cord

CERTIFICATIONS: UL listed, cUL listed.

Specifications	
Motor Type	TEFC, Totally Enclosed Fan Cooled
Motor HP	Sub-Fractional, 1/45HP
Control	ON/OFF Switch
Pumphead Materials	Dacron-reinforced Viton, Valox, PTFE and polyethylene
Agency Listings	UL, cUL and CE (230V only)
Operating Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	-45° to +65°C (-13° to +149°F)
Overall L × W × H	20 × 10 × 14cm (8 × 4 × 5.5")
Shipping Weight	3.2kg (7 lb.)

Description	Mfr. No.	Cat. No.	Each
Single-head, 115V	420-1901	**13-310-485**	316.68

BrandTech™ Vacuubrand™ ME2 NT Diaphragm Vacuum Pump

Designed specifically for noncorrosive, nonevaporative applications

Aluminum-FKM diaphragm vacuum pump is an excellent choice for a wide range of laboratory and process plant vacuum applications.

13-688-000

- Pumps utilize diaphragm vacuum technology for totally dry operation; eliminates oil changes
- Diaphragms withstand up to 10,000-15,000 hours of use before replacement; reduces maintenance cost and downtime
- Unique design eliminates tedious, trial-and-error stroke length recalibration
- Specially engineered pump heads provide high flow rates at working vacuum; results in reduced process times and higher throughput
- All Vacuubrand pumps and systems must pass rigorous product testing before leaving the factory, for assured reliability
- Dual voltage: 100-120V/200-230V 50-60Hz, U.S. plug
- Ultimate vacuum: 70mbar
- Free air capacity: 38 lpm

INCLUDES: Pump, single-phase motor, ON/OFF switch, cable with plug and operating manual

WARRANTY:
One-year manufacturer's warranty.

Description	Mfr. No.	Cat. No.	Each
ME2 NT Diaphragm Vacuum Pump	730003	**13-688-000**	1440.00

KNF™ Chemically Resistant Laboport™ Vacuum Systems

With separator, condenser and vacuum controller

Ideal for use in applications requiring precise control over system pressures. The heart of this system is a quiet, compact Laboport vacuum pump. These chemical resistant, oil-free pumps are coupled with an inlet separator and outlet condenser to improve solvent recovery yields. The two-point electronic controller provides users with the ability to program in the system pressure and walk away.

- Maintenance free
- Quiet operation
- Simple connection to line power and to the pneumatic system
- Environmentally friendly
- Automatic vacuum control
- Controlled recovery of solvents, with high-performance condenser at the pressure side

Specifications:

- Operating Pressure: 1 bar
- Pneumatic Connections for tube ID: .375"
- Motor: 115V 60Hz

Dimensions

- 13-880-614, 13-880-615: 15.5 × 19.7 × 11.3" (39.7 × 50.6 × 28.9cm)
- 13-880-616, 13-880-617: 16.3 × 19.7 × 11.3" (41.7 × 50.6 × 28.9cm)

NOTE: For laboratory applications, there are a wide variety of vacuum pumps with many different performance levels and various modular system components. The systems listed here are fully assembled at the factory. They can be converted quickly and easily; special tools are not required.

13-880-615

INCLUDES:
Complete SC vacuum system with: chemically resistant diaphragm pump of your choice, base plate, separator (suction side), condenser (pressure side), vacuum controller with electrical supply unit, cabling and tubing ready to connect.

Delivery	Ultimate Vacuum	Operating Current/Power	Weight	Mfr. No.	Cat. No.	Each
10L/min.	6 torr	1.2A/90w	13.6kg	SC810	**13-880-614**	6440.00
20L/min.	6 torr	1.4A/120w	16kg	SC820	**13-880-615**	6616.00
34L/min.	1.5 torr	3.0A/245w	19.3kg	SC842	**13-880-617**	8692.00
34L/min.	6 torr	3.0A/245w	20.1kg	SC840	**13-880-616**	7239.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Syringe

Fisher Scientific™ Single Syringe Pump

Easy-to-use, economical pump combines precise flow with exceptional durability

14-831 Series

A cost-effective solution for infusing fluids.

- Dispensing volume: 10µL to 60mL
- Wide flow range up to 519mL/hour
- High-visibility backlit LCD
- Auto shutoff volume dispense mode
- Fast setup with built-in syringe size table
- Rapid adjustments; fast forward/reverse
- Stall indicator and power failure indicator
- Quick-release drive nut for fast syringe installation and removal
- Guide rod clamp prevents syringe damage
- Durable housing with welded seams

APPLICATIONS: Calibrating, diluting, dispensing, dosing, emulsifying, fluid transfer, infusions

Electrical Requirements	Cat. No.	Each
110V 60Hz	**14-831-200**	1515.00
220V 60Hz	**14-831-201**	1523.00

KD Scientific Legato Syringe Pumps

User-definable flowrates with selectable target volume or time values to control the total infusion volume

- Infuse only dual syringe pump
- Hold one or two syringes from 0.5µL to 140mL
- 6400 microsteps per one revolution of lead screws
- High resolution color touchscreen
- Real-time clock
- Unparalleled ease of use
- Touch pad "lock" feature
- LED light on front panel
- Full metal chasis
- Built-in syringe table
- Up to 75 lb. linear force
- Advanced microstepping techniques
- Built-in RS-485 interface
- USB port
- I/O and TTL interface
- Continuous mode of operation
- Spill dam

10-989-000

CERTIFICATIONS:
CE marked UL listed, CSA, WEE, CB scheme, EU RoHS

Specifications	
Accuracy	±0.35%
Reproducibility	±0.05%
Flowrate Range	Minimum (0.5µL syringe) 5mL/min. to Maximum (140mL syringe) 220.97mL/min.
Display	4.3 WQVGA TFT Color Display with Touchpad
Nonvolatile	Stores all settings
Connectors	RS-232 - 9Pin D-Sub Connector; RS-485 - IEE-1394 6 pos; USB - Type B; I/O and TTL - 15Pin D-Sub Connector
Linear Force (Max.)	75 lb. (34kg) @ 100% force selection
Drive Motor	1.8° stepper motor
Motor Drive Control	Microprocessor with .0625 microstepping
Min. Step Rate	0.36µm/min.
Max. Step Rate	26sec/µstep
Min. Pusher Travel Rate	0.36µm/min.
Max. Pusher Travel Rate	190.80mm/min.
Operating Temperature	4° to 40°C (40° to 104°F)
Storage Temperature	-10° to +70°C (14° to 158°F)
Humidity	20% to 80% RH non-condensing
Mode of Operation	Continuous
Electrical Requirements	100 to 240V AC 50/60Hz, 50w, 0.5A
Dimensions, L × W × H	8.89 × 25.4 × 27.94cm (3.5 × 10 × 11")
Weight	10.75 lb. (4.9kg)

Description	No. of Syringes	Mfr. No.	Cat. No.	Each
Legato 200 Infuse Only Syringe Pump	2	788200	**10-989-000**	3670.00
Legato 210 Infuse/Withdraw Syringe Pump	2	788210	**10-989-001**	4460.00
Legato 210 Infuse/Withdraw Programmable Syringe Pump	2	788212	**10-989-002**	4950.00
Legato 270 Push/Pull Syringe Pump	4	788270	**10-989-003**	4088.87
Legato 262 Push/Pull Programmable Syringe Pump	4	788272	**10-989-004**	5191.65
Infuse/Withdraw Multi-Rack, 6 × 10	----	788300	**10-989-005**	974.00
Infuse/Withdraw Multi-Rack, 4 syringe	----	788301	**10-989-006**	990.50

Accessories

Fisherbrand® 19 Mechanical Pump Oil for Belt-Drive and Direct-Drive Pumps

For belt-drive and direct-drive pumps not subject to extreme operating conditions

Also for use in the forepump of a diffusion pump system with polyphenyl ethers, silicone and ester-based pump fluids.

- Permits cooler pump operation, lower maintenance, longer fluid life, reduced power consumption
- Reduces backstreaming
- Protects O-rings
- Ultimate pressure at 25°C (77°F), 8.5×10^{-5} torr
- Pour point, -15°C (+5°F)
- Flash point, 212°C (415°F)

S41385

Size	Packaging	Cat. No.	Each	Case of
0.2 gal. (1L)	Plastic bottle	**01-184-150A**	51.31	12/329.46
1 gal. (4L)	Plastic bottle	**01-184-150B**	100.57	4/342.21
5 gal. (19L)	Plastic can	**01-184-150C**	355.47	----
55 gal. (208L)	Metal drum	**01-184-150D**	2233.80	----

Fisherbrand® Pressure and Vacuum Rubber Tubing

For pressure and vacuum work

- Red or black rubber tubing
- Thick wall

I.D.	Wall Thickness	O.D.	Cat. No.	Each	Case of 4
Black Tubing on reel of 50' (15.2m)					
1/4" (6.4mm)	0.18" (4.8mm)	0.62" (15.9mm)	**14-150-2J**	606.46	----
5/16" (7.9mm)	0.18" (4.8mm)	0.68" (17.5mm)	**14-150-2K**	359.00	----
3/8" (9.5mm)	0.25" (6.4mm)	0.87" (22.2mm)	**14-150-2L**	483.79	----
1/2" (12.7mm)	0.25" (6.4mm)	1" (25.4mm)	**14-150-2H**	532.78	----
Red Tubing in 12' (3.7m) Lengths					
1/4" (6.4mm)	0.18" (4.8mm)	0.62" (15.9mm)	**14-173C**	119.67	399.91
3/8" (9.5mm)	0.31" (7.9mm)	1" (25.4mm)	**14-173D**	274.72	896.25
Black Tubing in 12' (3.7m) Lengths					
3/16" (4.8mm)	0.18" (4.8mm)	0.56" (14.3mm)	**14-175B**	109.99	370.98
1/4" (6.4mm)	0.18" (4.8mm)	0.62" (15.9mm)	**14-175C**	125.34	421.68
5/16" (7.9mm)	0.18" (4.8mm)	0.68" (17.5mm)	**14-175D**	147.36	495.91
3/8" (9.5mm)	0.25" (6.4mm)	0.87" (22.2mm)	**14-175E**	153.82	519.14
1/2" (12.7mm)	0.25" (6.4mm)	1" (25.4mm)	**14-175F**	203.01	656.50
5/8" (15.9mm)	0.37" (9.5mm)	1.37" (34.9mm)	**14-175G**	360.57	1166.55

Fisherbrand® Heavy-Wall Gum Rubber Tubing

Red tubing with low vapor pressure

Suitable for use with vacuum pumps.

- Length: 12'

I.D.	Wall Thickness	O.D.	Cat. No.	Each	Case of 4
In 12' (3.7m) Lengths					
0.5" (12.7mm)	0.37"	1.25" (31.8mm)	**14-182C**	404.00	1315.02
0.75" (19.1mm)	0.37"	1.5" (38.1mm)	**14-182D**	410.57	1337.24
1" (25.4mm)	0.37"	1.75" (44.5mm)	**14-182E**	424.20	1383.70

ON THE WEB...

Looking for more Pumps and Accessories? Fisher Scientific offers a wide range of Pumps and Accessories for multiple applications. For more information...

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Prices subject to change.

Racks

Bottle

Bel-Art™ Scienceware™ Poxygrid™ Centrifuge Bottle Rack

Supports round or conical bottom 250mL centrifuge tubes

- Holds six tubes with diameter of 60mm for storage or transport
- Use with Falcon™, Nalgene™, Corning™, Kimble™ tubes
- Constructed of blue epoxy-coated steel wire
- Autoclavable at 121°C

05-663-103

ORDERING INFORMATION:
Dimensions (L × W × H): 5.3 × 8.2 × 4" (14 × 21 × 10cm).

For Bottle Size	Mfr. No.	Cat. No.	Each
Up to 8.45 oz. (250mL)	F19856-0250	**05-663-103**	34.85

Bel-Art™ Scienceware™ No-Wire™ Bottle and Vial Racks

Molded polypropylene racks hold most small bottles or vials

- Small enough to hold in one hand
- Submersible
- Autoclavable and chemical-resistant
- Dimensions (L × W × H): 5 × 4 × 1.7" (13 × 11 × 4.3cm)
- Ship flat but assemble quickly and easily

14-791-5C

For Bottles or Vials	No. of Places	Mfr. No.	Cat. No.	Each	Case of 8
0.511" (13mm)	42	F18514-0013	**14-791-5A**	35.60	238.50
0.62" (16mm)	30	F18514-0016	**14-791-5B**	35.60	238.50
0.787" (20mm)	20	F18514-0020	**14-791-5C**	35.60	238.50
0.98" (25mm)	12	F18514-0025	**14-791-5D**	35.60	238.50
1.18" (30mm)	6	F18514-0030	**14-791-5E**	35.60	238.50

Drying

Bel-Art™ Scienceware™ Lab-Aire™ II Labware Drying Racks

Glassware and plasticware drying racks for walls or benchtops

- Dry and store delicate labware including beakers, flasks, bottles, test tubes and cylinders on these space-saving drying racks
- Single-sided benchtop models fit flat against a wall

03-422-200 Series

- Double-sided benchtop models provide double the capacity (up to 114 pegs) with a slightly larger footprint
- Three sizes and lengths of V-channel pegs can be repositioned to hold a variety of labware
- Rugged ABS plastic body and pegs won't corrode and wipe clean
- Wall-mount models have mounting points that fit standard pegboards
- Pegs available separately to reconfigure rack for specific drying requirements

Description	Holds	Mfr. No.	Cat. No.	Each
Benchtop Racks				
Single-sided, 1 tier, Wall Mount or Benchtop	19 pegs	F18933-0011	**03-422-204**	106.84
Single-sided, 2 tiers, Benchtop	38 pegs	F18933-0012	**03-422-201**	232.00
Single-sided, 3 tiers, Benchtop	57 pegs	F18933-0015	**03-422-202**	294.00
Double-sided, 1 tier, Benchtop	38 pegs	F18933-0021	**03-422-203**	201.00
Double-sided, 2 tiers, Benchtop	76 pegs	F18933-0022	**03-422-200**	325.00
Double-sided, 3 tiers, Benchtop	114 pegs	F18933-0023	**03-422-210**	463.50
Wall-mount Racks				
Single-sided, 2 tiers, Wall Mount	38 pegs	F18933-0014	**03-422-206**	154.50
Single-sided, 3 tiers, Wall Mount	57 pegs	F18933-0013	**03-422-205**	222.23

Bel-Art™ Scienceware™ Lab-Aire™ II Electric Dryers

Electric-powered drying racks for glassware and plasticware

03-422-200 Series

- 400w power gently circulates heated air into and around items to decrease drying time
- Include baskets for drying small or odd-shaped glassware or lab tools
- Choice of three temperature settings
- Circuit breaker and independent thermo-fuse protects unit from overheating
- Foam air filter cleans circulating air

Rack style	Mfr. No.	Cat. No.	Each
120V			
Single-sided, 2 tiers	F18819-0012	**03-422-214**	949.12
Single-sided, 3 tiers	F18819-0013	**03-422-212**	1070.53
Double-sided, 2 tiers	F18819-0022	**03-422-213**	1103.00
Double-sided, 3 tiers	F18819-0023	**03-422-211**	1205.67

Polypropylene Holders and Dryers

Store easily in freezer or refrigerator

- One-piece molded polypropylene support consists of base unit and many individual posts
- Hold tubes placed open-end-up between posts
- Dry tubes placed open-end-down over the posts
- Autoclavable

14-781-16

For Tube Size	No. of Places	Drying Pins	Dimensions (L × W × H)	Cat. No.	Each	Case of
0.393–0.511" (10–13mm)	80	102	9 × 3.5 × 2.625" (23 × 8.9 × 6.6cm)	**14-781-15**	23.57	24/412.67
0.55–0.66" (14–17mm)	50	66	7 × 4 × 2.75" (17.8 × 10 × 7cm)	**14-781-16**	28.13	12/246.40
0.7–0.78" (18–20mm)	40	55	9 × 4.125 × 3" (23 × 10.5 × 7.6cm)	**14-781-17**	26.85	12/235.18
0.86–0.98" (22–25mm)	30	44	11 × 4 × 3" (28 × 10 × 7.6cm)	**14-781-18**	26.85	12/235.18

Fisherbrand® High Impact Polystyrene (HIPS) Drying Rack

Fits up to 72 pegs

- Injection-molded, high-impact, light blue polystyrene
- Pegs hold cylinders, bottles, beakers and containers etc. and snap in or out easily when desired
- Comes with 72 large 4" long (10.2cm) pegs, expansion hanging hooks, draining tubes and fastening stoppers for coupling with additional racks
- Interchangeable pegs for use with test tubes available separately

05-718-40 rack with 05-718-41 pegs (pegs not included)

ORDERING INFORMATION:
Dimensions: 17W × 24"H(43.2 × 61cm) with 3" (7.6cm) ledge.

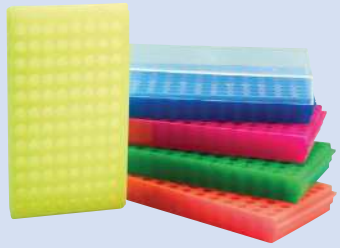
Description	Cat. No.	Each
Drying Rack	**05-718-40**	365.50

Microcentrifuge Tube

Fisherbrand® Microcentrifuge Tube Racks

Two frosted writing areas for sample identification

- "Reversible," autoclavable polypropylene racks
- Withstand freezer storage to -90°C (-194°F)
- Cone-shaped wells keep tubes centered and upright
- Alphanumeric index permits easy tube identification
- Choose from 12 colors and assorted packs
- Hold 96 × 0.5mL tubes on one side or 96 × 1.5 to 2.0mL microcentrifuge tubes and screw-cap microcentrifuge tubes on the other



05-541-38

ORDERING INFORMATION:
Dimensions: 10.87L × 10.62W × 4.75"H (27.7 × 27.0 × 12.1cm)

Color	Cat. No.	Pack of 5	Case of 4 Packs
Natural	**05-541-29**	82.19	303.27
Lavender	**05-541-36**	82.19	303.27
Black	**05-541-37**	82.19	303.27
Fluorescent Blue	**05-541-39**	82.19	303.27
Fluorescent Green	**05-541-40**	82.19	303.27
Fluorescent Orange	**05-541-41**	82.19	303.27
Fluorescent Yellow	**05-541-43**	82.19	303.27
Fluorescent Pink	**05-541-42**	82.19	303.27
Blue	**05-541-45**	82.19	303.27
Green	**05-541-46**	82.19	303.27
Orange	**05-541-47**	82.19	303.27
Pink	**05-541-48**	82.19	303.27
Yellow	**05-541-49**	82.19	303.27
Red	**05-541-33**	82.19	303.27
Fluorescent Assorted†	**05-541-38**	91.45	330.84
Nonfluorescent Assorted†	**05-541-44**	91.45	330.84

Fisherbrand® Polypropylene Microtube Storage Racks

Instantly organize microcentrifuge test tubes in any lab

- Color-coded racks provide easy identification of specific laboratory procedures or individual technician's trays
- Each well is numbered for easy sample location
- Autoclavable and suitable for freezing
- Excellent for benchtop use, in storage or transport of samples
- Choose from 12 colors, including natural, plus assorted packs
- Hold 80 screw-cap microcentrifuge tubes up to 2.0mL in a 16 × 5 array

05-541 Series

ORDERING INFORMATION:
Dimensions: 10.50L × 9W × 5"H (26.7 × 22.9 × 12.7cm).

Color	Cat. No.	Pack of 5	Case of 4
Natural	**05-541**	56.36	206.75
Blue	**05-541-2**	56.36	206.75
Green	**05-541-3**	56.36	206.75
Orange	**05-541-4**	56.36	206.75
Pink	**05-541-5**	56.36	206.75
Red	**05-541-6A**	56.36	206.75
Yellow	**05-541-7**	56.36	206.75
Assorted (Nonfluorescent)	**05-541-1**	69.33	253.77
Fluorescent Blue	**05-541-20**	56.36	206.75
Fluorescent Green	**05-541-21**	56.36	206.75
Fluorescent Orange	**05-541-22**	56.36	206.75
Fluorescent Pink	**05-541-23**	56.36	206.75
Fluorescent Yellow	**05-541-24**	56.36	206.75
Fluorescent Assorted	**05-541-25**	69.33	253.77

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nalgene™ Microcentrifuge Tube Storage Boxes

Three sizes fit tubes from 0.2 to 1.5mL

- Bottom constructed of white polycarbonate
- Transparent polycarbonate lid has printed grid for inventory purposes
- Store from -211° to +250°F (-135° to +121°C)
- Lid accepts marker for box and tube identification and is keyed to orient front and back of box

15-350 Series

ORDERING INFORMATION:
Dimensions (L × W × H):
5.25 × 5.25 × 2" (13 × 13 × 5cm).

NOTES:
Not for use in liquid phase of liquid nitrogen.

For Tube Size	No. of Places	Mfr. No.	Cat. No.	Pack of 4	Case of 6 Pk.
0.0068 oz. (0.2mL)	64	5055-5002	**15-350-58**	88.30	357.00
0.016 oz. (0.5mL)	81	5055-5005	**15-350-59**	88.30	357.00
0.05 oz. (1.5mL)	64	5055-5015	**15-350-60**	88.30	357.00

PCR

Fisherbrand® 96-Well Rack for PCR Tubes

Autoclavable polypropylene rack for 0.2mL tubes

- Ideal for pre- or post-PCR sampling applications
- Imprinted alphanumeric grid for easy sample identification
- Removable lid provides flexibility
- Each pack contains five racks in assorted colors (blue, green, pink, yellow and orange)
- Accommodates individual tubes or 8- or 12-tube strips in a 96-well array

03-448-20

L × W × H	Cat. No.	Pack of 5	Case of 40 Packs
5 × 4 × 1.50" (12.7 × 10.16 × 3.8cm)	**03-448-20**	54.18	1708.50

Special Purpose

Thermo Scientific™ Nalgene™ Floating Microtube Racks; PP

Molded-in handle allows convenient transport, agitation and removal from water bath

- Square- and round-style racks for incubating 0.5 to 2.0mL microcentrifuge tubes at elevated or reduced temperatures in water or ice baths
- Round-style racks fit conveniently inside 400 or 1000mL beakers
- Racks will float with a full load of filled tubes
- Tubes are supported below the lip while conical ends are immersed in water
- On benchtop, rack legs prevent bottom of tubes from touching bench surface
- Thaw, cool and incubate samples at elevated or reduced temperatures — tolerates a wide temperature range
- Tubes are securely supported in the rack below the lip
- Each hole has molded-in letters and numbers for easy sample identification

14-809-166, -166A and -166B (left to right)

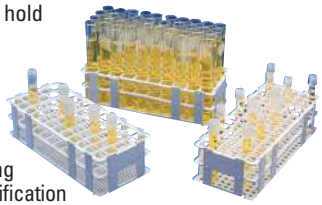
NOTES: Racks are not autoclavable

For Tube Size	No. of Places	Color	Mfr. No.	Cat. No.	Pack of 4	Case of 4 Pack
Square Racks						
1.0, 1.2 and 2.0mL	16	White	5974-0404	**14-809-166**	56.80	153.00
Round Racks						
1.0, 1.2, 1.5 and 2.0mL	8	White	5974-4015	**14-809-166B**	54.00	145.20
1.0, 1.2, 1.5 and 2.0mL	20	White	5974-1015	**14-809-166A**	57.30	154.20

Bel-Art™ Scienceware™ No-Wire™ Grip Racks

Test tubes "hang in there" in any position, even inverted

- Tiny retainer fingers in each well hold each tube securely, perfect for decanting or in a water bath
- Molded of autoclavable polypropylene that sinks in a water bath
- End plates have space for labeling and wells have alphanumeric identification
- Fit most automated sampling equipment
- Stackable
- Easy to assemble — snaps together



Left to right: 14-791-9B, 14-791-9C, 14-791-9A

ORDERING INFORMATION:
Dimensions (L × W × H): 4.125 × 9.75 × 2.75" (11 × 25 × 7cm).

For Tube Size	No. of Places	No. of Rows	Mfr. No.	Cat. No.	Each	Case of 8
0.39 to 0.51" (10 to 13mm)	90	6 × 15	F18749-0000	**14-791-9A**	39.85	267.50
0.59 to 0.62" (15 to 16mm)	60	5 × 12	F18749-0001	**14-791-9B**	39.85	267.50
0.70 to 0.78" (18 to 20mm)	40	4 × 10	F18749-0002	**14-791-9C**	39.85	267.50

Bel-Art™ Scienceware™ Stak-a-Tray™ Tissue Culture Racks

Maximize incubator, cold room and bench space

- Keep trays, flasks and dishes level and stable for even settling of tissue culture cells
- Racks interlock when stacked, to a maximum of five racks high (allows up to 20 levels of trays)
- Each rack tier holds one large tray (Cat. No. 07-910-4), 35.6 × 35.6cm or two smaller trays (Cat. No. 07-910-4A), 17.8 × 35.6cm
- Perforated trays allow air, gas and water vapor circulation
- Racks and trays sold separately
- Stainless-steel storage system is autoclavable

Rack, 4-Tier (Cat. No. 07-910-4)

- 2.4cm clearance between trays, for storing Petri dishes or smaller culture flasks

Two 07-910-4 units stacked vertically with 07-910-6 and 07-910-4A trays

Description	Mfr. No.	Cat. No.	Each
Rack, 4-Tier	H18610-0440	**07-910-4**	408.00
Tray, 14 × 7" (36 × 18cm)	H18610-0470	**07-910-4A**	75.90
Tray, 14 × 14" (36 × 36cm)	H18610-1440	**07-910-6**	108.40

Bel-Art™ Scienceware™ Round Bubble Racks

Optimized for use in microbiology and immunology labs

- Made especially for use in beakers — incubate eight to twenty 1.5mL tubes in a beaker of water
- Molded of buoyant polymethylpentene with tiny bubbles throughout for additional buoyancy
- Racks fill at top; tubes remove easily by pressing rack down on bench until legs touch and release tubes
- Tube holes arranged in circular pattern with center rod handle
- Steam autoclavable at 121°C (250°F); can be boiled at 100°C (212°F) for 30 minutes

ORDERING INFORMATION:
Eight-place disc measures 2.625" dia. (6.6cm); 20-place disc measures 3.75" dia. (9.5cm). Discs are 0.25" thick (0.6cm). Legs are 0.75" long (1.9cm).

14-792-15 (left), 14-792-14

Fits Beaker Capacity	For tube	No. of Places	Mfr. No.	Cat. No.	Each
13.5 oz. (400mL)	1.5mL	8	F18875-0400	**14-792-14**	19.87
33.8 oz. (1000mL)	1.5mL	20	F18875-1000	**14-792-15**	22.55

Bel-Art™ Scienceware™ Radioimmunoassay Tube Racks

Organize over 100 samples with one rack

- Polypropylene racks provide a practical method of pipetting and storing a large number of samples
- Use alternate rows and rotate tubes to easily keep track of the last tube filled
- Suitable for clinical lab use to store samples
- Steam autoclavable at 121°C (250°F)

14-809-11

For Tube Size	No. of Places	Dimensions (L × W × H)	Mfr. No.	Cat. No.	Each	Case of 6
0.39-0.511" (10-13mm)	216	13.5 × 9.0625 × 3" (34.2 × 23 × 7.6cm)	F18870-0000	**14-809-10**	140.20	740.00
0.511-0.62" (13-16mm)	120	13.25 × 10.25 × 3.5" (33.5 × 26 × 8.9cm)	F18871-0000	**14-809-11**	142.60	752.50
0.62-0.78" (16-20mm)	120	13.25 × 10.25 × 3.5" (33.5 × 26 × 8.9cm)	F18872-0000	**14-809-12**	146.90	775.00

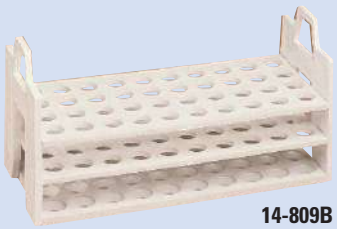
*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Test Tube

Fisherbrand® Three-Tier Polypropylene Test Tube Racks

Molded racks provide rigid support when fully loaded — reduce breakage

- Stack empty or loaded with tubes up to 10cm (4") long
- Autoclavable to 121°C (250°F)
- With convenient end plate handles for carrying
- Rows are numbered and lettered for easy referencing
- White surfaces make color comparison easy
- Sturdy and chemical-resistant, will not shatter or stain



14-809B

For Tube Size	Row Configuration	L × W × H	Cat. No.	Each	Case of 4
0.39-0.511" (10-13mm)	6 × 12	23.4 × 11.3 × 10.8cm (9.25 × 4.4375 × 4.25")	**14-809-A**	48.45	164.20
0.511-0.62" (13-16mm)	4 × 10	27 × 11.2 × 13.3cm (10.625 × 4.437 × 5.25")	**14-809-AA**	61.30	208.50
0.62-0.78" (16-20mm)	4 × 10	27 × 11.2 × 13.3cm (10.625 × 4.437 × 5.25")	**14-809-B**	50.10	170.10
0.82-0.98" (21-25mm)	4 × 10	32.2 × 12.7 × 13.3cm (12.6875 × 5 × 5.25")	**14-809-C**	66.10	215.50
1.02-1.18" (26-30mm)	3 × 8	29.7 × 12.7 × 13.3cm (11.6875 × 5 × 5.25")	**14-809-D**	54.30	185.60

Fisherbrand® Two-Tier Polypropylene Test Tube Racks

Fit most water baths for elevated temperature incubations

- Hold serum vials, RIA vials, T_3 or T_4 reaction vials or any other vial or tube of same dimensions
- Won't rust or corrode
- Lightweight
- Autoclavable

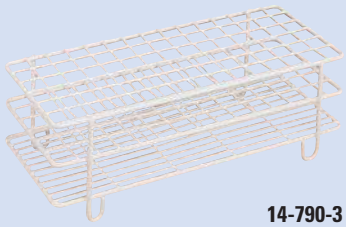
14-809-20

For Tube Size	No. of Places	L × W × H	Cat. No.	Each	Case of 4
0.39-0.511" (10-13mm)	72	9.37 × 4.37 × 3.5" (24 × 11 × 8.9cm)	**03-213**	39.05	132.20
0.78-1.18" (20-30mm)	24	11.75 × 5 × 3.75" (29.8 × 12.7 × 9.5cm)	**03-337-13**	52.40	179.10
0.511-0.62" (13-16mm)	40	10 × 4.37 × 3.5" (25.4 × 11 × 8.9cm)	**14-809-20**	40.80	----
0.62-0.78" (16-20mm)	40	10 × 4.37 × 3.5" (25.4 × 11 × 8.9cm)	**14-809-21**	40.80	----

Fisherbrand® White Vinyl-Coated Test Tube Racks with Legs

Resist chemical attack from dilute mineral acids and alkalis

- Epoxy-coated, heavy-gauge steel wire racks with three decks and legs
- Reduce noise; extremely impact resistant
- Usable at temperatures to 100°C (212°F)
- Autoclavable



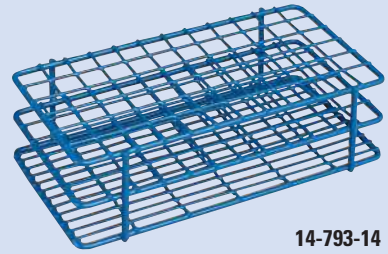
14-790-3

For Tube Size	No. of Places	No. of Rows	Dimensions (L × W × H)	Cat. No.	Each	Case of 12
0.511" (13mm)	90	6 × 15	9.62 × 4 × 2.25" (24.4 × 10 × 5.7cm)	**14-790-3**	69.18	717.84
0.62" (16mm)	48	4 × 12	9.50 × 3.37 × 2.50" (24.1 × 8.6 × 6.4cm)	**14-790-4**	75.20	764.50
0.62" (16mm)	72	6 × 12	9.25 × 4.75 × 2.75" (23.5 × 12 × 7cm)	**14-802-8**	53.99	559.70
0.86" (22mm)	40	4 × 10	10.25 × 4.25 × 3.25" (26 × 11 × 8.3cm)	**14-790-5**	75.01	777.66

Fisherbrand® Poxygrid™ Test Tube Racks

Chemical and corrosion-resistant steel wire coated with heat-cured epoxy for long life and easy cleaning

- Epoxy-coatings are unaffected by organic solvents, salts, weak acids and weak alkalis
- Three decks and no legs with a slotted grid bottom
- Square holes hold test tubes securely
- Reinforced edges
- Autoclavable — withstand temperatures to 121°C (250°F)



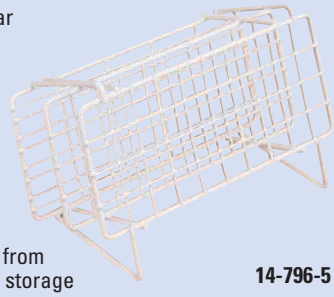
14-793-14

For Tube Size	No. of Places	No. of Rows	L × W × H	Cat. No.	Each	Case of
13mm	72	6 × 12	7.88 × 4 × 2.13" (20 × 10 × 5.4cm)	**14-793-14**	69.70	12/722.49
13mm	108	9 × 12	8 × 6.13 × 2.38" (20 × 16 × 6cm)	**14-793-15**	86.55	12/912.87
16mm	48	4 × 12	9.5 × 3.38 × 2.5" (24.1 × 8.6 × 6.4cm)	**14-793-11**	75.32	12/780.75
16mm	72	6 × 12	9.25 × 4.75 × 2.75" (23.5 × 12 × 7cm)	**14-793-12**	69.70	12/722.49
16mm	108	9 × 12	9.5 × 7.43 × 2.5" (24.2 × 18.9 × 6.4cm)	**14-793-13**	84.47	12/890.50
20mm	40	4 × 10	9.38 × 3.88 × 3.25" (23.8 × 9.8 × 8.3cm)	**14-793-9**	84.06	12/885.82
20mm	80	8 × 10	9.63 × 7.63 × 3" (24.4 × 19 × 7.6cm)	**14-793-10**	81.56	12/859.81
22mm	40	4 × 10	10.25 × 4.88 × 3.25" (26 × 11 × 8.3cm)	**14-793-7**	71.78	12/744.34
22mm	80	8 × 10	10.38 × 8.38 × 3.5" (26 × 21 × 8.9cm)	**14-793-8**	90.09	12/949.80
25mm	40	4 × 10	11.5 × 4.75 × 3.63" (29 × 12 × 9cm)	**14-793-6**	66.79	12/692.84
25mm	80	8 × 10	11.5 × 9.25 × 3.5" (29 × 23.5 × 8.9cm)	**14-793-5**	97.27	12/1025.74
30mm	24	3 × 8	10.88 × 4.25 × 3.25" (28 × 11 × 8.3cm)	**14-793-3**	84.06	12/885.82
30mm	48	6 × 8	10.88 × 8.13 × 4" (28 × 21 × 10cm)	**14-793-4**	97.06	12/1023.66
40mm	24	3 × 8	14 × 5.5 × 4" (36 × 14 × 10cm)	**14-793-1**	84.06	12/885.82
40mm	48	6 × 8	14 × 10.63 × 3.88" (36 × 27 × 9.8cm)	**14-793-2**	88.32	12/931.07
60mm	60	6 × 10	6.87 × 4.5 × 2.5" (17.5 × 11.4 × 6.4cm)	**14-793-231**	37.95	24/753.00
60mm	60	6 × 10	8 × 5.06 × 5" (20.3 × 12.9 × 12.7cm)	**14-793-232**	42.50	24/843.50
60mm	60	6 × 10	9.62 × 6.12 × 3.25" (24.4 × 15.5 × 8.3cm)	**14-793-233**	45.75	24/907.50
60mm	60	6 × 10	11.62 × 7.37 × 3.25" (29.5 × 18.7 × 8.3cm)	**14-793-234**	43.86	24/882.81
150mm	150	10 × 15	10.06 × 7.06 × 2.5" (25.6 × 17.9 × 6.4cm)	**14-793-235**	46.70	12/475.00
150mm	150	10 × 15	12 × 8.25 × 2.5" (30.5 × 21 × 6.4cm)	**14-793-236**	46.70	12/475.00

Fisherbrand® Two-Way Slant Racks

For incubating liquid cultures on slant during tissue culture processes

- Prepare either 5° or 20° agar slants in same rack
- Autoclave media in rack
- While still hot, set rack on one side for 5° tilt or other for 20° tilt
- 5° angle usually used for aerobic cultures, 20° for anaerobic
- 20° tilt also prevents media from drying out during long-term storage
- White, epoxy-coated, heavy-gauge steel



14-796-5

For Tube Size	No. of Places	Dimensions (L × W × H)	Cat. No.	Each	Case of 12
0.62" (16mm)	40	7.75 × 3.25 × 2.5" (20 × 8 × 6cm)	**14-796-1**	46.08	479.51
0.78" (20mm)	40	9.375 × 3.875 × 3.25" (24 × 10 × 8cm)	**14-796-5**	41.61	433.23
0.86" (22mm)	40	10.25 × 4.25 × 3.25" (26 × 11 × 8cm)	**14-796-10**	41.03	426.98

Fisherbrand® Poxygrid™ Centrifuge Racks

With 30mm square holes

- Hold 50mL plastic centrifuge tubes
- Made of epoxy-coated steel wire
- Autoclavable

14-791-6A

No. of Places	Dimensions (L × W × H)	Cat. No.	Each	Case of 12
8	3 × 5.5 × 3.5" (7.6 × 14 × 8.9cm)	**14-791-6A**	42.15	426.50
16	5.5 × 5.5 × 3.5" (14 × 14 × 8.9cm)	**14-791-6B**	44.05	449.00
36	8.25 × 8.25 × 3.5" (21 × 21 × 8.9cm)	**14-791-6C**	64.50	663.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Poxygrid™ Half Racks

Resist abrasion, rust and corrosion

- Ideal for autoclaving — unaffected by temperatures from -223° to +121°C (-370° to +250°F)
- Constructed of high-quality steel wire, welded and coated with heat-cured, thermosetting, blue epoxy
- Unaffected by salts, weak acids, weak alkalis and organic solvents such as toluol, heptane, turpentine and xylol
- Resist chipping
- Two decks with square holes, reinforced edges and slotted mesh bottom

14-792-12

For Tube Size	No. of Places	No. of Rows	L × W × H	Cat. No.	Each	Case of 24
0.39-0.511" (10-13mm)	36	6 × 6	4.25 × 4.06 × 2.12" (10.8 × 10.3 × 5.4cm)	**14-792-10**	36.00	686.00
0.59-0.62" (15-16mm)	24	6 × 4	4.87 × 3.50 × 2.62" (12.4 × 8.9 × 6.7cm)	**14-792-11**	36.00	686.00
0.70-0.78" (18-20mm)	20	5 × 4	5.06 × 4.37 × 2.31" (12.9 × 11.1 × 5.9cm)	**14-792-12**	36.00	686.00

Thermo Scientific™ Nalgene™ Unwire™ Test Tube Racks; Resmer™ Manufacturing Technology

For positive tube identification, numbers and letters are molded into top tier

- Smooth finish leaves fewer places for contaminants to lodge; no welds to break, no sharp edges
- Endplates accept large labels for easy identification of samples
- Higher specific gravity than water so rack stays submerged in a water bath — won't float
- Withstand most lab chemicals and temperatures up to 121°C for a variety of lab procedures
- Available in six bright colors to help keep samples organized
- 15mL conical tubes fit 20mm racks; 50ml conical fit 30mm racks
- No assembly required — ready to use

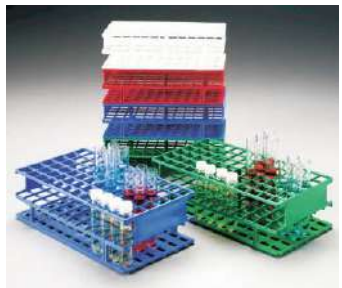
Nalgene Unwire Test Tube Racks

Dimensions (L × W × H)	Color	Mfr. No.	Cat. No.	Each	Case of 8
For 13mm tubes, 72 places					
7.75 × 4 × 2.25" (20 × 10.2 × 5.7cm)	Blue	5970-0313	**14-809-41**	39.45	201.50
	Green	5970-0413	**14-809-45**	39.45	201.50
	Orange	5970-0113	**14-809-32**	39.45	201.50
	Red	5970-0513	**14-809-60**	39.45	201.50
	White	5970-0013	**14-809-22**	39.45	201.50
	Yellow	5970-0213	**14-809-37**	39.45	201.50
For 16mm tubes, 72 places					
9.75 × 5 × 2.75" (24.8 × 12.7 × 7.0cm)	Blue	5970-0316	**14-809-43**	39.45	201.50
	Green	5970-0416	**14-809-47**	39.45	201.50
	Orange	5970-0116	**14-809-35**	39.45	201.50
	Red	5970-0516	**14-809-62**	38.90	197.60
	White	5970-0016	**14-809-24**	40.05	202.50
	Yellow	5970-0216	**14-809-39**	39.45	201.50
For 20mm tubes, 40 places					
9.75 × 4 × 3.25" (25 × 10.2 × 8.3cm)	Blue	5970-0320	**14-809-52**	39.45	201.50
	Green	5970-0420	**14-809-46**	39.45	201.50
	Orange	5970-0120	**14-809-31**	39.45	201.50
	Red	5970-0520	**14-809-64**	39.45	201.50
	White	5970-0020	**14-809-26**	39.45	201.50
	Yellow	5970-0220	**14-809-38**	39.45	201.50
For 25mm tubes, 40 places					
11.75 × 4.75 × 3.62" (30 × 12.1 × 9.2cm)	Blue	5970-0325	**14-809-42**	42.90	219.00
	Green	5970-0425	**14-809-48**	41.17	216.85
	Orange	5970-0125	**14-809-33**	41.17	216.85
	Red	5970-0525	**14-809-66**	40.76	214.83
	White	5970-0025	**14-809-28**	42.80	220.50
	Yellow	5970-0225	**14-809-40**	41.17	216.85
For 30mm tubes, 24 places					
11 × 4.25 × 3.62" (28.3 × 10.8 × 9.2cm)	Blue	5970-0330	**14-809-44**	42.90	219.00
	Green	5970-0430	**14-809-49**	43.25	221.50
	Orange	5970-0130	**14-809-36**	43.25	221.50
	Red	5970-0530	**14-809-68**	42.90	219.00
	White	5970-0030	**14-809-30**	42.90	219.00
	Yellow	5970-0230	**14-809-50**	43.25	221.50

Thermo Scientific™ Nalgene™ Unwire™ Test Tube Racks; PP

Securely hold a full load of test tubes

- Higher specific gravity than water so stays submerged in a water bath — won't float
- Hold a full load of test tubes or centrifuge tubes for 13, 16, 20, 25 and 30mm sizes or up to 72 smaller diameter tubes can be held at once
- Available in four bright colors to help keep samples organized
- Endplates accept large labels — for easy identification of samples



14-809-130 to -137

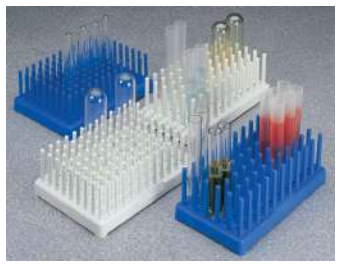
NOTES: These racks are NOT autoclavable

Dimensions (L × W × H)	Color	Mfr. No.	Cat. No.	Each	Case of 8
For 13mm tubes, 72 places					
7.75 × 4 × 2.25" (20.0 × 10.2 × 5.7cm)	White	5976-0013	**14-809-130**	29.30	148.70
	Blue	5976-0313	**14-809-131**	29.30	148.60
	Green	5976-0413	**14-809-132**	29.30	148.60
	Red	5976-0513	**14-809-133**	29.30	148.60
For 16mm tubes, 72 places					
9.75 × 5 × 2.75" (24.9 × 12.7 × 6.7cm)	White	5976-0016	**14-809-134**	29.30	148.70
	Blue	5976-0316	**14-809-135**	29.30	148.70
	Green	5976-0416	**14-809-136**	29.30	148.60
	Red	5976-0516	**14-809-137**	29.30	148.60

Thermo Scientific™ Nalgene™ Test Tube Peg Racks; Filled PP

Securely hold tubes and allow full visibility

- Consist of an array of pegs spaced to hold given-diameter test tubes while allowing full view of the tube contents
- Pegs also hold tubes in inverted position for drying
- When inverted, ribs keep tubes off base to allow drainage through holes and minimize collection of airborne contaminants inside the tubes
- Suitable for drying glass plates and used in electrophoresis and chromatography plates
- Higher specific gravity than water so stays submerged in a water bath — won't float
- Autoclavable



14-810-54 Series

Color	Array	Dimensions (L × W × H)	Mfr. No.	Cat. No.	Pack of 2	Case of 4 Pack
For 10 to 13mm tubes; 96 places						
Blue	8 × 12	7 × 5 × 2.5" (17.9 × 12.7 × 6.4cm)	5977-0313	**14-810-54D**	41.65	106.80
White	8 × 12	7 × 5 × 2.5" (17.9 × 12.7 × 6.4cm)	5977-0013	**14-810-54A**	41.65	106.80
For 14 to 17mm tubes; 50 places						
Blue	5 × 10	7.375 × 4 .125 × 2.75" (18.7 × 10.5 × 7.0cm)	5977-0317	**14-810-54K**	45.25	121.80
White	5 × 10	7.375 × 4.125 × 2.75" (18.7 × 10.5 × 7.0cm)	5977-0017	**14-810-54G**	45.25	121.80

Thermo Scientific™ Nalgene™ Unwire™ Half-Racks; Resmer™ Manufacturing Technology

Similar to Unwire test tube racks but more space efficient

- Repeatedly autoclavable
- Smooth finish leaves fewer places for contaminants to lodge; no welds to break, no sharp edges
- Endplates accept large labels
- Higher specific gravity than water so stays submerged in a water bath — won't float
- Withstand most lab chemicals and temperatures up to 121°C for a variety of lab procedures
- Available in six bright colors to help keep samples organized
- 15mL conical tubes fit 20mm racks; 50ml conical fit 30mm racks
- No assembly required
- Half the length of standard Unwire Racks, these safe space on the benchtop or fit easily in ice or water baths

Nalgene Unwire Half-Racks

Array	Color	L × W × H	Mfr. No.	Cat. No.	Each	Case of 8
For 13mm tubes, 36 places						
6 × 6	White	4 × 4 × 2.2" (10.2 × 10.2 × 5.6cm)	5972-0013	**14-809-101**	28.40	145.50
6 × 6	Blue	4 × 4 × 2.2" (10.2 × 10.2 × 5.6cm)	5972-0313	**14-809-116**	26.97	141.95
6 × 6	Green	4 × 4 × 2.2" (10.2 × 10.2 × 5.6cm)	5972-0413	**14-809-120**	26.97	141.95
6 × 6	Red	4 × 4 × 2.2" (10.2 × 10.2 × 5.6cm)	5972-0513	**14-809-126**	26.97	141.95
For 16mm tubes, 36 places						
6 × 6	White	5 × 5 × 2.7" (12.7 × 12.7 × 6.8cm)	5972-0016	**14-809-102**	29.90	153.30
6 × 6	Blue	5 × 5 × 2.7" (12.7 × 12.7 × 6.8cm)	5972-0316	**14-809-117**	29.90	153.30
6 × 6	Green	5 × 5 × 2.7" (12.7 × 12.7 × 6.8cm)	5972-0416	**14-809-122**	29.90	153.30
6 × 6	Red	5 × 5 × 2.7" (12.7 × 12.7 × 6.8cm)	5972-0516	**14-809-127**	29.90	153.30
For 20mm tubes, 20 places						
4 × 5	White	5 × 4.1 × 3.3" (12.7 × 10.5 × 8.4cm)	5972-0020	**14-809-103**	29.25	153.97
4 × 5	Blue	5 × 4.1 × 3.3" (12.7 × 10.5 × 8.4cm)	5972-0320	**14-809-118**	30.75	157.80
4 × 5	Green	5 × 4.1 × 3.3" (12.7 × 10.5 × 8.4cm)	5972-0420	**14-809-124**	29.25	153.87
4 × 5	Red	5 × 4.1 × 3.3" (12.7 × 10.5 × 8.4cm)	5972-0520	**14-809-128**	29.25	153.87
For 25mm tubes, 16 places						
4 × 5	White	4.8 × 4.8 × 3" (12.2 × 12.2 × 7.6cm)	5972-0025	**14-809-142**	29.25	153.87
4 × 4	Blue	4.8 × 4.8 × 3" (12.2 × 12.2 × 7.6cm)	5972-0325	**14-809-145**	29.25	153.87
For 30mm tubes, 9 places						
3 × 3	White	4.3 × 4.3 × 3.3" (10.9 × 10.9 × 8.4cm)	5972-0030	**14-809-105**	30.75	157.80
3 × 3	Blue	4.3 × 4.3 × 3.3" (10.9 × 10.9 × 8.4cm)	5972-0330	**14-809-119**	30.75	157.80
3 × 3	Green	4.3 × 4.3 × 3.3" (10.9 × 10.9 × 8.4cm)	5972-0430	**14-809-125**	30.75	157.80
3 × 3	Red	4.3 × 4.3 × 3.3" (10.9 × 10.9 × 8.4cm)	5972-0530	**14-809-129**	30.75	157.80

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Bel-Art™ Scienceware™ Switch-Grid™ Test Tube Racks

One rack, 25 possible tube size combinations

11-123 Series

Innovative, split-frame rack holds up to two different size tubes in the same rack, allowing users to quickly switch grids to hold other sizes as needed.

- 10mm to 30mm diameter test tubes fit in five colored coded grid inserts
- Three-tier rack holds tubes securely in place
- Rubber feet keep racks from sliding on benchtop; provide secure stacking while in storage
- Chemical resistant polyoxymethylene plastic rack frame and grids can be cleaned with mild detergent, ethanol or isopropyl alcohol; autoclaved at 121°C (250°F)
- More compact and less expensive than purchasing multiple racks
- Rack frame overall dimensions: 31.8L × 11.1W × 6.7cmH (12.5 × 4.375 × 2.625")

ORDERING INFORMATION:
Each rack includes a set of grids in one size; Grid sets in alternate sizes can be purchased separately. Rack frame overall dimensions: 31.8L × 11.1W × 6.7cmH (12.5 × 4.375 × 2.625").

Description	Fits Tube Sizes	Capacity	Mfr. No.	Cat. No.	Price
Racks					
Rack with Orange Grids	10 to 13mm	14 × 6 (84 places)	F18745-0010	**11-123-987**	Ea./22.25
Rack with Blue Grids	13 to 16mm	12 × 5 (60 places)	F18745-0011	**11-123-988**	Ea./22.25
Rack with Green Grids	16 to 20mm	10 × 4 (40 places)	F18745-0012	**11-123-989**	Ea./22.25
Rack with Fuchsia Grids	20 to 25mm	8 × 3 (24 places)	F18745-0013	**11-123-990**	Ea./22.25
Rack with Yellow Grids	25 to 30mm	6 × 2 (12 places)	F18745-0014	**11-123-991**	Ea./22.25
Grids					
Set of Grids, Orange	10 to 13mm	----	F18745-1300	**11-123-992**	Pk. of 4/5.55
Set of Grids, Blue	13 to 16mm	----	F18745-1600	**11-123-993**	Pk. of 4/5.55
Set of Grids, Green	16 to 20mm	----	F18745-2000	**11-123-994**	Pk. of 4/5.55
Set of Grids, Fuchsia	20 to 25mm	----	F18745-2500	**11-123-995**	Pk. of 4/5.55
Set of Grids, Yellow	25 to 30mm	----	F18745-3000	**11-123-996**	Pk. of 4/5.55

Thermo Scientific™ Nalgene™ Racks; PP

Numbers and letters are molded for easy identification of tubes

- Holes are keyed with molded-in numbers and letters for easy identification of tubes
- Handles make these racks easy to carry
- Will stack with other racks of same length to save space when not in use
- Superior chemical resistance make these compatible for many chemicals in the lab
- Higher specific gravity than water so stays submerged in a water bath — won't float

14-810-12A to -12D

NOTES:
These racks are not autoclavable.

For Tube Size	No. of Places	Dimensions (L × W)	Mfr. No.	Cat. No.	Each	Case of 4
10 to 13mm	72	11 × 4.5" (28.5 × 11.5cm)	5930-0013	**14-810-12A**	92.09	242.07
13 to 16mm	40	11 × 4.5" (28.5 × 11.5cm)	5930-0016	**14-810-12B**	92.93	244.70
16 to 20mm	40	11 × 4.5" (28.5 × 11.5cm)	5930-0020	**14-810-12C**	92.93	244.70
25 to 30mm	24	12.5 × 4.5" (32 × 11.5cm)	5930-0030	**14-810-12D**	92.93	244.70

Thermo Scientific™ Nalgene™ Test Tube Racks; PC

Numbers and letters are moulded for easy identification of tubes

- Holes are keyed with molded-in numbers and letters for easy identification of tubes
- Handles make these racks easy to carry
- Will stack with other racks of same length to save space when not in use
- Higher specific gravity than water so stays submerged in a water bath — won't float
- Autoclaving will reduce strength over time

14-810-11B to 11D

For Tube Size	No. of Places	Dimensions (L × W)	Mfr. No.	Cat. No.	Each	Case of 4
13 to 16mm	40	11 × 4.5" (28.5 × 11.5cm)	5929-0016	**14-810-11B**	107.60	283.00
16 to 20mm	40	11 × 4.5" (28.5 × 11.5cm)	5929-0020	**14-810-11C**	107.60	283.00
25 to 30mm	24	12.5 × 4.5" (32 × 11.5cm)	5929-0030	**14-810-11D**	107.60	283.00

Corning™ Foam Premium Quality Centrifuge Tube Racks

For conical bottom tubes

- Made of polystyrene foam
- Rugged and lightweight for economical storage of Corning centrifuge tubes
- Standard racks hold single size of 15 or 50mL tubes; universal rack holds both 15 and 50mL tubes

07-202-531

For Tube Size	No. of Places	Mfr. No.	Cat. No.	Case of 20
Standard Racks				
0.50 oz. (15mL)	50	431355	**07-200-611**	53.20
1.69 oz. (50mL)	25	4365	**07-202-531**	53.20
Universal Rack				
0.50 and 1.69 oz. (15 and 50mL)	25	4366	**07-200-610**	53.20

Wash/Storage

Fisherbrand® Molded Polypropylene Baskets

For incubating or sterilizing tubes

- Do not rust or corrode
- Autoclavable at 121°C (250°F)
- With tapered sides to give good support to tubes, reduce danger of breakage
- With tight-fitting polypropylene covers

14-965A

Dimensions (L × W × H)	Cat. No.	Each	Case of 4
5.75 × 4.87 × 4.25" (14.6 × 12.4 × 10.8cm)	**14-965A**	25.60	86.30
6.25 × 6.25 × 6.12" (16.5 × 16.5 × 15.6cm)	**14-965B**	31.55	128.30
9 × 9 × 9" (23 × 23 × 23cm)	**14-965C**	37.50	152.60

Pipet Supports

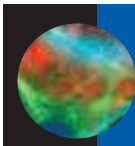
Bel-Art™ Scienceware™ Pipet Support Rack

Sturdy rack holds 50 pipets in a vertical 5 × 10 arrangement for safe, convenient storage

- Top and middle decks have 16mm diameter holes; Bottom deck holes are tapered from 16mm to 6mm diameter to prevent tips from touching benchtop
- End plates have handles for easy carrying
- Rugged polypropylene
- Steam autoclavable at 121°C (250°F)

13-712-10

Dimensions (L × W × H)	Mfr. No.	Cat. No.	Each	Case of 6
8.375 × 4.5 × 8.875" (21 × 11 × 22cm)	F18953 0000	**13-712-10**	57.90	293.50



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Prices subject to change.

Recorders

Dataloggers

Fisherbrand® Temp1000 Series Temperature Recorders

Rugged, reusable and fully submersible

- Programmable start time
- Real-time operation
- Available with or without NIST™ certification

TEMP1000

- Body: aluminum enclosure
- Temperature sensor: semiconductor
- Submersible to 150' (45m)

TEMP1000S

- Body: 303 stainless-steel enclosure
- Probe: 304 stainless-steel enclosure
- Temperature sensor: 100 Ω platinum RTD
- Submersible to 150' (45m)

TEMP1000IS

- Body: aluminum enclosure
- Temperature sensor: semiconductor
- NEMA 4X, 6P

15060090

RHTEMP1000

- Body: aluminum enclosure
- Temperature sensor: semiconductor
- Humidity sensor: semiconductor
- Humidity resolution: 0.5%RH
- Humidity calibrated accuracy: ±3%RH (±2%RH typical at 25°C)
- Response time: 90% change in 60 sec. in slow moving air (end cap fully open)

INCLUDES:
One user-replaceable 3.6V lithium battery; TEMP1000S includes one user-replaceable 3.9V high-temperature lithium battery

REQUIRES: Interface cable

COMPLIANCE: CE; Model TEMP1000IS is CE and IS compliant

ALERTS: Battery warning: do not recharge, force open, heat or dispose in fire. Risk of fire or explosion.

Model w/NIST Cert	Temperature Range	Temperature Resolution	Memory	NIST Certificate of Traceability	Body Dimensions	Probe Dimensions	Weight	Cat. No.	Each
TEMP1000	-40° to +176°F (-40° to +80°C)	32°F (0.1°C)	32,767 readings per channel	----	4.3 × 1.0" dia. (110mm × 26mm dia.)	----	4 oz. (110g)	**15060090**	99.51
TEMP1000-Cert	-40° to +176°F (-40° to +80°C)	32°F (0.1°C)	32,767 readings per channel	√	4.3 × 1.0" dia. (110mm × 26mm dia.)	----	4 oz. (110g)	**15060090CER**	281.00
TEMP1000S	-40° to +302°F (-40° to +150°C)	32.09°F (0.05°C)	32,767 readings per channel	----	4.8 × 1.0" dia. (122mm × 26mm dia.)	1.0 × 0.188" dia. (26 × 5mm dia.)	8 oz. (225g)	**15060093**	540.50
TEMP1000S-Cert	-40° to +302°F (-40° to +150°C)	32.09°F (0.05°C)	32,767 readings per channel	√	4.8 × 1.0" dia. (122mm × 26mm dia.)	1.0 × 0.188" dia. (26 × 5mm dia.)	8 oz. (225g)	**15060093CER**	603.50
TEMP1000IS-Cert	-40° to +176°F (-40° to +80°C)	32°F (0.1°C)	32,767 readings per channel	√	4.3 × 1.0" dia. (110mm × 26mm dia.)	----	4 oz. (110g)	**15060091CER**	280.50
RHTEMP1000	-40° to +176°F (-40° to +80°C)	32°F (0.1°C)	21,845 readings per channel; 43,690 total readings	----	5.4 × 1.0" dia. (138mm × 26mm dia.)	----	5 oz. (145g)	**15060094**	432.50
RHTEMP1000-Cert	-40° to +176°F (-40° to +80°C)	32°F (0.1°C)	21,845 readings per channel; 43,690 total readings	√	5.4 × 1.0" dia. (138mm × 26mm dia.)	----	5 oz. (145g)	**15060094CER**	530.00

ACCESSORIES

Fisherbrand® Data Recorder Software and Accessories

Software and accessories that support the recording of data

Utilize to start, stop and download from specified dataloggers.

Description	Mfr. No.	Cat. No.	Each
Software, manual and USB interface cable	IFC200	**15-060-036**	129.40
Software, manual and USB Docking Station	IFC300	**15-060-038**	102.70

15-060-036

Fisherbrand® Temperature Data Logger

1 million reading storage capacity

Using the data logging software, starting, stopping and downloading from the unit is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel™ for further calculations. Free firmware upgrades for the life of the product are available, so that data loggers already deployed in the field can grow with the technology. Units do not need to be returned to the factory for upgrades. The user can do this automatically from any PC.

- Multiple start/stop functions
- Ultra-high speed download capability
- One million reading storage capacity
- Optional memory wrap
- Battery life indicator
- Optional password protection
- Programmable high-low alarms
- 10 year battery life (at 15-min. reading rate, ambient temp. 25°C)

15-059-002

Temperature

- Temperature Sensor: Precision RTD Element
- Temperature Range: -40°C to +80°C (-40°F to +176°C)
- Temperature Resolution: 0.01°C (±0.018°F)
- Temperature Calibrated: Accuracy ±0.5°C (±0.9°F)

Description	Cat. No.	Each
Temperature Data Logger	**15-059-002**	94.20
Temperature Data Logger; with NIST certificate	**15-059-002CER**	157.70

General

- Reading rate: one reading every second to every 24 hours
- Baud rate: 115,200
- LED indicators: red and green
- Dimensions: 1.4 × 2.2 × 0.6" (3.6 × 5.6 × 1.6cm)
- Operating environment: -40°C to +80°C (-40°F to +176°C), 0 to 95% RH noncondensing
- Required interface package: IFC200

COMPLIANCE: CE approved.

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Prices subject to change.

Fisherbrand® Humidity and Temperature Data Logger

Ultra-high speed download capability

Using the data logging software, starting, stopping and downloading from the unit is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K,°R, %RH, mg/mL water vapor concentration and dew point. The data can also be automatically exported to Excel™ for further calculations. Free firmware upgrades for the life of the product are available, so that data loggers already deployed in the field can grow with the technology. Units do not need to be returned to the factory for upgrades. The user can do this automatically from any PC.

15-059-306

- 10 year battery life
- One-second reading rate
- Multiple start/stop functions
- Ultra-high speed download capability
- 500,000 reading per channel storage capacity
- Optional memory wrap
- Battery life indicator
- Optional password protection
- Programmable high-low alarms

Temperature

- Temperature sensor: precision RTD element
- Temperature range: -40°C to +80°C (-40°F to +176°F)
- Temperature resolution: 0.01°C (0.018°F)
- Temperature calibrated accuracy: ±0.5°C (±0.9°F)

Humidity

- Humidity sensor: internal semiconductor
- Humidity range: 0 to 95% RH
- Humidity resolution: 0.1% RH
- Humidity calibrated accuracy: ±3.0%RH (±2%RH typical at 25°C/77°F)
- RH units: %RH, dew point, water vapor, concentration (mg/hl)

General

- Memory: 500,000 readings per channel; software configurable memory wrap; 250,000 readings in multiple start/stop mode
- Reading rate: one reading every second to one reading every 24 hours
- Alarm: programmable high and low limits; activated when humidity reaches or exceeds set limits
- Baud rate: 115,200
- LED indicators: red and green
- Push-button start and stop: yes
- Battery life: 10 years typical at a 15 minute reading rate (ambient temp.)
- Material: ABS plastic
- Dimensions: 1.4 × 2.2 × 0.6" (3.6 × 5.6 × 16cm)
- Operating environment: -40°C to +80°C (-40°F to +176°F), 0 to 95%RH non-condensing
- Required interface package: IFC200
- Weight: 0.9 oz.

ORDERING INFORMATION: Software, manual and USB interface cable package required (Cat. No. 15-060-036).

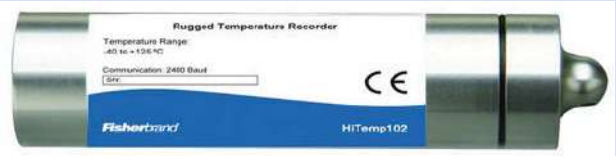
COMPLIANCE: CE approved.

Description	Cat. No.	Each
Humidity and Temperature Data Logger	**15-059-306**	158.90
Humidity and Temperature Data Logger; with NIST™ certificate	**15-059-306CER**	255.00

Fisherbrand® Exact-Temp™ Extended Range Datalogger

Engineered to monitor temperature in extreme and harsh environments including autoclaves and sterilizers

- Measure and record temperatures ranging from -40° to +125°C (-40° to +257°F) with ±0.5°C (±0.9°F) accuracy and 0.1° resolution
- User-selectable reading rates range from every two seconds to one per day
- Designed to be used in autoclaves and sterilizers for temperature verification
- Records up to 32,767 temperatures
- Submersible to 150'
- Water- and moisture-proof aluminum tube housing



15-059-303

APPLICATIONS:
Medical and pharmaceutical temperature verifications. Ideal for environmental studies, monitoring sensitive environments and recording temperatures of perishables throughout all stages of manufacturing, storage and transport

ORDERING INFORMATION:
Dimensions: 0.75 dia. × 4"L (1.9 × 10.2cm); Weight: 2 oz. (56.7g)

CERTIFICATIONS:
Certificate indicating instrument traceability to standards provided by NIST™ is available separately. Contact your Fisher Scientific Customer Service Representative for information.

Description	Cat. No.	Each
High Temperature Datalogger	**15-059-303**	217.50
High Temperature Datalogger with NIST™ Certificate	**15-059-303CER**	259.49

Fisherbrand® High-Temperature Dataloggers

Ideal for autoclave and sterilization chamber validations

Calibrate and set reproducible parameters such as reading rates and starting time with Windows™ XP/Vista/Windows based software (available separately). Data acquisition software can also be used to retrieve temperature, date and time readings and calculate mean kinetic temperature, dew point and standard deviation.

15-060-000

- Rugged and reusable
- Auto calculations for lethality equations
- Fully submersible
- Programmable start/stop
- Real-time clock, date/time stamped
- Display temperatures graphically in °C, °F, °K or °R; print or export to Excel™
- NIST™-traceable certification is available

HITEMP 150

- Fast response RTD probe
- Miniature in size
- Probe dimensions: 2.0 × 0.187" dia. (50 × 5mm)
- Weight: 8 oz. (255g)

HITEMP 150FP

- Features penetration-style, flexible probe
- Probe dimensions: 4 × 0.125" dia. (102 × 4mm dia.)
- Probe handle dimensions: 1.5 × 0.375" dia. (39 × 10mm dia.)
- Silicone rubber cable dimensions: 2' × 14" dia. (610 × 4mm dia.)
- Weight: 9 oz. (255g)

APPLICATIONS:
Autoclave validation; medical/pharmaceutical; food preparation and processing; environmental studies; extreme temperature monitoring; thermal processes verification

ORDERING INFORMATION:
One-year battery life at 1 min. reading rate. Optional probes and probe lengths available.

INCLUDES: 3.9V high-temperature, lithium battery

REQUIRES: Interface package cat. no. 15077 or 15060036

COMPLIANCE: HACCP; CE

CERTIFICATIONS: NIST Traceable

ALERTS:
Do not short-circuit charge, force over-discharge, disassemble, crush, penetrate or incinerate. Battery may leak or explode if heated above 302°F (150°C).

Description	Mfr. No.	Cat. No.	Each
HITEMP 150; Rigid External Probe	HiTemp150	**15-060-000**	535.00
HITEMP 150FP; Flexible Probe	HiTemp150FP	**15-060-001**	535.00

Fisherbrand® HITEMP140 High-Temperature Datalogger

Rugged, high precision, high temperature datalogger that is built for use in harsh environments

Using the datalogger software, starting, stopping and downloading the HiTemp140 is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel™ for further calculations.

15-060-084

- Simple setup and installation
- Minimal long-term maintenance
- Long-term field deployment
- User replaceable battery
- Rugged, stainless steel construction
- Programmable start and stop times
- Engraved label
- Probe lengths up to 7"
- Battery life indicator
- Submersible; can withstand temperatures up to 140°C (284°F)
- Highly accurate, ± 0.1°C (0.18°F)
- Can store up to 32,700 readings
- Rigid external probe can measure extended temperatures, up to 260°C (500°F); custom probe lengths up to 7" are available
- Records date and time stamped readings
- Nonvolatile solid state memory will retain data even if the battery becomes discharged

Datalogger Software

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F_0, PU)
- Mean kinetic temperature
- Full time zone support
- Data annotation
- Min./max./average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

APPLICATIONS:
Autoclave verification, implement HACCP programs, food preparation and processing, environmental studies, well monitoring, dishwasher testing, pasteurization

CERTIFICATIONS:
CE approved, NIST™ traceable

Description	Cat. No.	Each
High-Temp. 140 Datalogger	**15-060-080**	535.50
High-Temp. 140 Datalogger; with NIST certificate	**15-060-084**	629.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Controllers

Fisherbrand® Traceable™ Digital Temperature Controller

Controls heating elements, cooling blocks, hotplates or incubators

Turns equipment on or off when temperature rises above or falls below setpoints.

- With range of -20° to +60°C (-4° to +140°F), it permits maintenance of temperatures both above and below ambient
- Set in 1°C or °F increments; resolution: 0.1°C or °F
- 0.5" (13mm) high LCD shows temperature and time to the second
- Light indicates if attached equipment is on or off
- Manual override switches equipment on or off instantly without disturbing temperature settings
- 115VAC, UL-rated relay
- Unit accepts standard three-prong plug and controls equipment to 1800w, 15A

ORDERING INFORMATION:
Dimensions: 2.75L × 5.5W × 1.25"H (7 × 14 × 3cm).

Cat. No.	Each
11-463-47A	216.50

INCLUDES:
Two AAA batteries (provide memory setting backup in case of power failure) and 3.5' (1m) long sensor cable

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST™.

11-463-47A

Oakton™ Temperature Controllers

Provide excellent control, accuracy and power capabilities

Ideal for pilot process plants, R & D labs and OEM requirements.

Probes

- Controllers accept J, K, T, E, N, B, R, and S thermocouple-type probes with miniconnectors
- Advanced controller also accepts 400 Series thermistor probes with 1/4" (6.3mm) phono plug and RTD probes with 3-pin connectors

Field calibration offset

- Improves accuracy by compensating for individual probe error
- Resolution is 0.1°C below 999.9°C and 1°C above 999.9°C
- Accuracy: for Type J, K, T, E, and N probes, ±0.1% of reading, ±0.4°C (±0.7°F) above -100°C (-248°F) or ±0.1% of reading, ±1°C (±1.8°F) below -100°C (-248°F); for Type R, S and B probes, ±0.1% of reading, ±1°C (±1.8°F); for thermistor and RTD probes, ±0.1% of reading, ±0.4°C (±0.7°F)

Programmable

- Two-line alphanumeric display of set-up and operational parameters
- Set temperatures using Celsius, Fahrenheit, Kelvin, or Rankine scales
- Alarms are fully programmable with adjustable hysteresis and audible alarm option
- Choose from alarms off, manual reset or automatic reset
- Process alarms trigger if temperature goes outside a set range and can be set for HIGH, LOW or HIGH/LOW modes
- Deviation alarms trigger if temperature deviates from a single setpoint and can be set for HIGH, LOW, HIGH/LOW or BAND modes
- Advanced controller includes SPDT alarm relay to set a circuit to either open or close when triggered

Safety Features

15-176-105

- Fail-safe operation with adjustable overtemperature shutdown and loop break cutoff
- Output power to load device automatically shuts down if sensor or control loop breaks
- If overtemperature setpoint is exceeded, system shuts down automatically
- Output power receptacle fused separately for added safety
- Nonvolatile memory protects set-up parameters and saves parameters if power is lost

Standard Controller

- Maximum heater output is 115/230V, 10A, 1150/2300w
- Select from ON/OFF, AUTOTUNE for standard proportional integral derivative (PID) applications
- Programmable PID for nonstandard PID applications

Advanced Controller

- All the standard controller's features plus higher heater output capacity of 115/230V, 15A, 1725/3450w, up to nine programmable ramp and soak profiles, bidirectional RS-232-C computer interface, and a Windows™ software program
- Features an isolated 4 to 20mA output, scalable for positive or negative slope, 250ohm resistor for conversion to a 1 to 5V output signal and an output connector

ORDERING INFORMATION:
Controllers are 115V (with 6' long power cord).
Dimensions: 10L × 7.375W × 3.75"H (25 × 18.5 × 9.4cm).

Controller	Ramp/Soak	RS-232-C Connection	Recorder Output	Electrical Rqts/ Control Output	Cat. No.	Each
Standard Model, Meter Only	No	No	None	115V/10A	**15-176-105**	897.52
Advanced Model, Meter Only	16 Segments	300 to 9600 Baud	4 to 20/20 to 4mA, Selectable	115V/15A	**15-176-110**	1193.49

Chart Recorders

Dickson™ Temperature Chart Recorders with K-Thermocouple Probe

Eight user-selectable temperature ranges

Introducing a new family of 6" temperature chart recorders. Featuring a sleeker look and feel, increased shielding to eliminate electronic noise interference and smoother pen movement.

- Temperature ranges: 0 to -100°F/C, 0 to -50°F/C, -50 to +50°F/C, 0 to +50°F/C, 50 to 100°F/C, 0 to 100°F/C, 0 to 250°F/C, 0 to 500°F
- Remote temperature accuracy: ±0.3% of chart range and ±1.8°F (±1°C) recorder only
- Remote sensor: standard K-Thermocouple (other K-TC probes available)
- AC adapter, 120V 50/60Hz; 9V battery backup
- Recording times: 24-hour/7-day
- Response time: 2 minutes at 63% of full scale
- Resolution: 0.1° resolution -9.9° to 199.9°; 1° resolution above 200° and below -9.9°
- Dimensions: 7.56 × 7.56 × 3.25" (19.2 × 19.2 × 8.3cm)
- Chart size: 6" diameter
- IP rating: IP21

INCLUDES: AC adapter, pen, 9V battery and 4' bead wire probe.

WARRANTY: 12 month, limited

CERTIFICATIONS: Comes with standard Dickson Certificate of Calibration. NIST™ Traceable and A2LA Certification is available; contact your Fisher Scientific™ Sales Representative for details.

13-904-84

Description	Mfr. No.	Cat. No.	Each
With probe	KT621	**13-904-84**	508.00
With probe; 3.5-digit LCD display	KT622	**13-904-85**	638.50
With probe; 3.5-digit LCD display; Audible alarm and relay contacts	KT625	**13-904-87**	787.50

Dickson™ Vaccine Temperature Chart Recorder

Designed specifically for vaccine storage applications

The CDC now recommends using continuous, certified and calibrated chart recorders for vaccine storage monitoring.

- Calibrated and certified
- 24/7 continuous monitoring, even during nights and weekends
- Easy-to-read vaccine chart (sold separately) measures 4" diameter
- Circular bands on chart show acceptable vaccine ranges
- Digital display for quick reference
- Compact size; perfect for refrigerator or freezer
- Pen accuracy, ±2% full scale; display accuracy, ±1.8°F (±1°C)
- Temperature sensor: precise spiral-wound, bi-metallic strip transducer
- Average response time: 11 minutes to move 63% of full scale
- Recording time: 7 days
- LCD display; resolution: 0.1°F (0.1°C)
- Dimensions: 5.25L × 5.25W × 2.375"H (13.2 × 13.2 × 6.1cm)
- Weight: 0.65 lb. (295g)

INCLUDES:
One AA alkaline battery, pen, calibration certificate.

CERTIFICATIONS:
CE approved.

15-075-106

Description	Temperature Range	Mfr. No.	Cat. No.	Each
Chart Recorder - Fahrenheit	0 to 70°F	VFC70	**15-075-106**	576.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Before You Buy **Refractomers**

METTLER TOLEDO

Benchtop or Portable?

Digital benchtop refractometers offer many more possibilities than ordinary digital refractometers, and are the best choice for a wide range of applications from routine Brix measurements at 20°C to refractive index determinations of bitumen at 100°C.

Portable refractometers can be used for measurements in laboratory and production environments. Depending on the application, these instruments can be used in two ways: Either put it on a flat surface and place a drop of sample onto the measurement cell, or immerse the sensor directly into the fluid.

What Accessories Are Available?

Combined liquid standard reference materials reduce uncertainty, eliminate time-consuming and error prone sample transfer and facilitate fully automatic performance verification. With the FillPal™ sampling pump the determination of Brix or other values could not be simplier. Also cleaning is much easier or can even be skipped when working with a FillPal.

Features To Look For

Simple:

- One Click™ user interface — direct access to all your routine tasks
- SmartCodes™ — the easy way of telling the system how to measure
- Product database — no methods to select, no results to judge

Sound:

- Powerful automation — flexible solutions for viscous, toxic and difficult samples
- ErgoSens™ — touch free measurement initiation

Sophisticated:

- Multiparameter analysis — simultaneous determination of density, refractive index, pH, conductivity and color
- ScanStraight™ — automatic barcode reading

Secure:

- LogStraight™ — biometric user management
- Multiple Measurement — automatic error detection
- LabX™ PC software — ERP/LIMS connectivity, result database, customized reports

FEATURE	RM40	RM50	REFRACTO30PX	REFRACTO30GS
Measurement Range	1.3200 ...1.7000 [nD]	1.32000 ...1.580000 [nD]	1.32 - 1.50	1.32 - 1.65
Temperature Range	5.0 ... 100.0°C	5.00 ... 75.00°C	10 - 40°C	10 - 40°C
Color Touchscreen	•	•		
Prism Material	Sapphire	Sapphire	Glass	Sapphire
Software option	•	•	•	•
Automation Available	•	•		

Refractometers

Handheld

Fisher Scientific™ Handheld Refractometers

Nine different handheld models

13-946-20

For a range of applications and measurement scales in the field, factory product line or QC lab. Accurate, easy to use and with a focusing eyepiece.

Brix Scale Units

- Measure sugar concentrations in solutions (fruit juices, soft drinks, wine) and concentration of industrial fluids (cutting coolants, glycol solutions and flux-rinsing compounds)
- Models with automatic temperature compensation (ATC) are ideal for field use because they require no recalibration after shifts in ambient working temperature
- Temperature compensation effective between 10° and 30°C (50° and 80°F)

Salt Water/Brine Unit

- Two-scale unit measures both specific gravity and the concentration of salt in water (parts per thousand)
- Includes ATC; good for use in aquaculture, food processing and wildlife management

Automotive Fluids Unit

- Three-scale model measures battery and radiator fluids
- Measures the recharge level of battery fluid, plus the freezing point of propylene glycol and ethylene glycol on separate scales

INCLUDES:
Soft-sided, foam-lined storage case with instruction manual and calibration screwdriver

Scale Range	Division	Accuracy	Cat. No.	Each
Brix Scale				
0° to 18° Brix	0.1°	±0.1°	**13-946-20**	216.75
0° to 32° Brix	0.2°	±0.2°	**13-946-21**	216.76
28° to 62° Brix	0.2°	±0.2°	**13-946-22**	221.06
45° to 82° Brix	0.5°	±0.3°	**13-946-23**	221.06
58° to 90° Brix	1.0°	±0.5°	**13-946-24**	216.76
0° to 10° Brix with ATC	0.1°	±0.1°	**13-946-25**	271.67
0° to 32° Brix with ATC	0.2°	±0.2°	**13-946-26**	271.67
Salinity				
0 to 100ppt with ATC, Specific Gravity 1.0 to 1.07	1.0ppt	±1.0ppt, ±0.001°	**13-946-27**	309.42
Automotive				
Propylene Glycol -76° to +32°F, Ethylene Glycol -34° to +32°F	10°F	±5.0°F	**13-946-28**	221.06

METTLER TOLEDO™ Refracto™ 30GS Portable Refractometer

Offers an extended measuring range due to its special prism design for measurements in laboratory and production environments

01-916-222

- Sapphire prism: held by a ring of hard gold plated brass. Sapphire has a higher refractive index and a better thermal conductivity than glass
- Temperature compensation: determines the temperature and then corrects the refractive index to a standard temperature of 20°C or any other temperature the user defines
- Plain language interface: shows results and settings in plain language
- Ease-of-use: makes operation easy and efficient, results are displayed on backlit LCD display
- Comprehensive result storage: stores up to 1100 results including sample identification, measurement unit, temperature compensation coefficient, date and time
- Transfer the data whenver you want: transfer data to PC or printer using IR interface. For this purpose infrared/RS-232 converter (51325006) is required

Description	Mfr. No.	Cat. No.	Each
30GS Portable Refractometer	51324660	**01-916-222**	2790.00

ON THE WEB...

To view the entire Refractometer product offering...

Visit www.fishersci.com and search for Refractometers

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

METTLER TOLEDO™ Refracto™ 30PX Portable Refractometer

For measurements in laboratory and production environments

- Glass prism: the glass prism of the measurement cell is held by a stainless steel ring, measures dark samples correctly
- Temperature compensation: determines the temperature and then corrects the refractive index to a standard temperature of 20°C or any other temperature the user defines
- Plain language interface: shows results and settings in plain language
- Ease-of-use: makes operation easy and efficient, results are displayed on backlit LCD display
- Comprehensive result storage: stores up to 1100 results including sample identification, measurement unit, temperature compensation coefficient, date and time
- Transfer the data whenever you want: transfer data to PC or printer using IR interface. For this purpose infrared/RS-232 converter (51325006) is required

01-916-221

Description	Mfr. No.	Cat. No.	Each
30PX Portable Refractometer	51324650	**01-916-221**	2050.00

Benchtop

METTLER TOLEDO™ LiquiPhysics™ Excellence RM Digital Benchtop Refractometers

Benchtop refractometers allow you to determine the refractive index, BRIX, HFCS or user-defined concentrations of a wide variety of liquids quickly and accurately

- Built-in Peltier temperature control provides both reliable temperature stability and rapid heating/cooling rates
- Inert sapphire prism facilitates measurement of thin, highly volatile, dark or viscous liquids
- Removable top section provides ease of cleaning with simple tap water without the need for tools
- Plug-and-play connection of accessories such as the printer, barcode scanner, LogStraight™ biometric fingerprint reader and ErgoSens™ infrared sensor for hands-free operation
- Assisted sample loading and clearing are possible through the addition of FillPal™ and DryPal™ units
- Optional EQPac (Equipment Qualification Package) provides comprehensive, detailed qualification guidance (IQ/OQ/PQ) to those working in regulated environments

10-376-203

Expand Your Scope of Measurement

- LiquiPhysics™ allows you to add parameters such as pH, color and density/specific gravity to your refractive index readings
- Simply connect a compatible SevenCompact™ pH or conductivity meter, colorimeter or density cell to the RM module and define the method
- Optional LabX™ LiquiPhysics™ Express software captures and manages all of these data points under a single platform
- LabX also fully supports your CFR 21.11 requirements, provides user management, audit trail, flexible data export options and fully customized reports

Reliable Standards

- METTLER TOLEDO Certified Combined Density and Refractive Index Standards reduce risk, uncertainty and error-prone sample transfer
- Standards come complete with certificates including an easy-to-scan barcode containing all information necessary for calibration
- Barcodes save you valuable time, reduce data entry error and improve traceability

Specifications	
Measurement Range Brix	0.00 to 100.00%
Temperature Control	Peltier
Typical Measuring Time	20 sec. (5 sec. after reaching temperature equilibrium)
Languages	German, English, French, Italian, Spanish, Chinese, Russian

Description	Measurement Range	Accuracy	Accuracy BRIX	Temperature Range	Mfr. No.	Cat. No.	Each
4-place	1.3200 to 1.7000 (nD)	0.0001	0.1%	5.0° to 100.0°C	51337003	**10-376-203**	10,878.00
5-place	1.32000 to 1.58000 (nD)	0.00005	0.03%	5.0° to 75.0°C	RM45	**10-376-204**	12,793.00

Before You Buy **Ultra-Low Temperature Freezers**

Thermo SCIENTIFIC

Thermo Scientific™ Forma™ 900 Series Double-Door -86°C Upright Freezers

- Store frequently used samples in the top chamber while long-term storage remains undisturbed in the bottom
- Three capacities storing from 216 up to 360 2-inch boxes
- Microprocessor control and monitoring system

Ultimate Protection

- For the highest level of security, consider a touch-screen user interface -86°C freezer that lets you control freezer settings, user authority levels and monitor the freezer's health 24/7.
- Or, for everyday sample protection and dependability, a microprocessor controller on a -86°C or -40°C freezers ensuring that all controls and displays are easy to reach and read.
- Look for a freezer with outstanding BTU reserve, leading to fast door-opening recovery.
- Consider an optional back-up and a monitoring system such as Thermo Scientific™ Smart-Vue™ wireless monitoring.

Optimum Capacities

- Consider your laboratory footprint limitations. Look for a freezer than can hold the largest amount of samples in the smallest freezer footprint.
- Do you have the need to access some samples more frequently than others? Consider a double-door model.
- Maximize your freezer's interior space with a racking system for your vials, microplates or tubes.

Thermo Scientific™ Revco™ UxF -86C Upright Freezers

Sample protection at your fingertips.

- Innovative touch-screen user interface featuring event log and freezer health monitor
- USB drive for transferring data from one freezer to another
- Choice of energy-savings or high-performance mode
- Five different capacities offering maximum sample storage to freezer footprint

	UXF300	UXF400	UXF500	UXF600	UXF700
Cu. Ft. Capacity	14.9 cu. ft.	19.4 cu. ft.	24.1 cu. ft.	28.8 cu. ft.	33.5 cu. ft.
2" Box Capacity	300	400	500	600	700
2mL Vial Capacity	30,000	40,000	50,000	60,000	70,000
1mL Vial Capacity	50,700	67,600	84,500	101,400	118,300
Area Footprint	7.05 sq. ft.	8.46 sq. ft.	9.92 sq. ft.	11.38 sq. ft.	12.85 sq. ft.

Refrigeration

Freezers

General Purpose

Fisher Scientific™ Isotemp™ General-Purpose Series Lab Freezers

Reliable cold storge for general-purpose applications

Isotemp™ General Purpose Series freezers offer the dependability and safety required for your daily lab applications.

- Capacities from 24 to 48 cu. ft.
- Freezer cabinet range: -12° to -30°C (factory setpoint -30°C)
- Lockable doors are manufactured in durable, stainless steel
- Stainless-steel interior
- Standard access port

ORDERING INFORMATION:
International models are available; contact your Fisher Scientific Customer Service Representative for details.

WARRANTY:
13 months, parts and labor

CERTIFICATIONS:
UL Listed

11-670-202

Capacity	Interior D × W × H	Exterior L × W × H	Monitoring Options	Door[s]/No. of Shelves	Elec. Reqts., NEMA Plug (Amps/Breaker)	Cat. No.	Each
24 cu. ft.	28 × 22 × 60"	32 × 26 × 78.5" (Add 1.75" to Depth for handle)	Alarms Only	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 9.7A	**11-670-202**	7281.20
24 cu. ft.	28 × 22 × 60"	32 × 26 × 78.5" (Add 1.75" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 9.7A	**11-670-203**	8161.18
34 cu. ft.	28 × 31 × 60"	32 × 35 × 78.5" (Add 1.75" to Depth for handle)	Alarms Only	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 10.4A	**11-670-204**	8816.05
34 cu. ft.	28 × 31 × 60"	32 × 35 × 78.5" (Add 1.75" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 10.4A	**11-670-205**	9705.20
48 cu. ft.	28 × 48 × 60"	32 × 52 × 78.5" (Add 1.75" to Depth for handle)	Alarms Only	Solid stainless-steel door, double/Gray – 6 Wire	230V 60Hz, L14-20, 7.6A	**11-670-206**	9595.74
48 cu. ft.	28 × 48 × 60"	32 × 52 × 78.5" (Add 1.75" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, double/Gray – 6 Wire	230V 60Hz, L14-20, 7.6A	**11-670-207**	10,472.16

Fisher Scientific™ Isotemp™ General-Purpose Freezers

Equipped with manual defrost for sensitive biological sample storage

- CFC-free R404A refrigerant
- Durable, textured white enamel-coated steel exterior
- Foamed-in polyurethane insulation
- One solid hinged door opens to a 90° angle, closes with a gentle push
- Four adjustable legs ensure cabinets are level on irregular floors

5.0 and 20.6 cu. ft. Models

- Adjustable temperature from -20° to -12°C, with ±3°C stability
- Yellow warning label on door "Not For Flammable Material Storage"

ORDERING INFORMATION:
For 115V 60Hz. Equipped with NEMA 5-15P line cord plug; requires NEMA 5-15R receptacle.

WARRANTY: 13 months, parts and labor

13-986-154

Model	Capacity	Interior D × W × H	No. of Shelves	Exterior L × W × H†	Shipping Weight	Cat. No.	Each
Basic	5.0 cu. ft. (142L)	15 × 18 × 28" (38 × 46 × 71cm)	2 Fixed	25.5 × 21.3 × 33.5 in. (65 × 54 × 85cm)	90 lb. (41kg)	**13-986-154**	1771.84
Basic	20 cu. ft. (566L)	20 × 27 × 57" (51 × 67 × 145cm)	4 Fixed	31 × 32 × 71" (79 × 81 × 180cm)	200 lb. (90.7kg)	**13-986-148**	2189.22

† Allow 3" (7.6cm) clearance top, back and sides.

Fisher Scientific™ General-Purpose Undercounter Freezer

Convenient storage in small spaces

- Adjustable temperatures from -20° to -15°C (-4° to +5°F)
- Capacity: 5.6 cu. ft. (159L)
- Manual defrost
- R-134a CFC-free refrigerant
- Base-mounted 360w compressor
- Hydraulic thermostat
- Baked-on, acrylic enamel exterior
- Easy-to-clean formed interior
- Three fixed shelves
- Solid door is mounted to open from left

ORDERING INFORMATION:
Interior dimensions: 15D × 18W × 27.5"H (38 × 46 × 70cm). Exterior: 25.25L × 21.25W × 33.5"H (64 × 54 × 85cm)[†]. Net weight: 90 lb. (40.8kg); shipping weight 120 lb. (54.5kg). 120V 60Hz, 3/15 amps/breaker.

WARRANTY:
Two years parts, one year labor

97-926-1

Cat. No.	Each
97-926-1	1785.14

[†] When using leveling legs supplied with unit, add 0.5" (11.3cm) to total height.

Thermo Scientific™ Undercounter General-Purpose Freezers

Suitable for routine laboratory storage requirements

1.6 cu. ft. Model

- One removable interior shelf
- Key lock
- UL listed

3.2 cu. ft. Model

- Suitable for -35 to -20°C storage requirements
- Three fixed bins
- Adjustable thermostat with deep-freeze setting
- Overtemperature warning with visual alarm
- Built-in key lock

5.6 cu. ft. Model

- Hydraulic thermostat
- Two fixed shelves and three door shelves

INCLUDES:
Adjustable shelves or baskets

14-512-523

Specifications	
Defrost	Manual
Refrigerant	CFC-free
Electrical Requirements	120V 60Hz

Capacity	Temperature Range	Mfr. No.	Cat. No.	Each
1.6 cu. ft. (45L)	-12° to -20°C	3757	**14-512-521**	923.77
3.2 cu. ft. (90.6L)	-15° to -35°C (suitable for -25°C applications)	3753	**14-512-523**	2123.09
5.6 cu. ft. (158L)	-12° to -20°C	3752DB	**3752-DB**	1609.75

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ GP Series Lab Freezers

Dependability and safety required for daily lab applications

Performance

- Freezer cabinet temperature range: -12° to -30°C (factory setpoint -30°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of ±3°C
- High-density, fluorine-free insulation
- Automatic defrost

Security

- Keyed on/off switch
- Optional chart recorder
- High/Low Temperature, Visual/Audio alarms
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock

Quality

- Painted, high-quality steel exterior
- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- 1" rear access port
- Certifications: UL listed

ORDERING INFORMATION:
International models are available; contact your Fisher Scientific Customer Service Representative for details.

WARRANTY:
Two years (parts and labor)

CERTIFICATIONS:
UL Listed

Thermo Scientific GP Series

Specifications	
Style	Upright
Refrigerant	R-404A
Condenser Type	Fin and Tube
Defrost	Automatic
Interior Finish	Anodized aluminum
Casters	Yes
Insulation	Polyurethane foam

Capacity	Interior D × W × H	Exterior L × W × H†	Monitoring Options	Doors/Shelves	Elec. Reqts., NEMA Plug (Amps/Breaker)	Mfr. No.	Cat. No.	Each
24 cu. ft.	28 × 22 × 60"	32 × 26 × 78.5"	Alarms Only	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 9.7A	MF25SS-SAEE-TS	**11-670-337**	7854.02
24 cu. ft.	28 × 22 × 60"	32 × 26 × 78.5"	Alarms and Recorder	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 9.7A	MF25SS-SARE-TS	**11-670-338**	8815.23
34 cu. ft.	28 × 31 × 60"	32 × 35 × 78.5"	Alarms Only	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 10.4A	MF34SS-SAEE-TS	**11-670-339**	9521.02
34 cu. ft.	28 × 31 × 60"	32 × 35 × 78.5"	Alarms and Recorder	Solid stainless-steel door, single/Gray – 3 Wire	115V 60Hz, 5-15P, 10.4A	MF34SS-SARE-TS	**11-670-340**	10,472.02
48 cu. ft.	28 × 48 × 60"	32 × 52 × 78.5"	Alarms Only	Solid stainless-steel door, double/Gray – 6 Wire	230V 60Hz, L14-20, 7.6A	MF49SS-SAEE-TS	**11-670-341**	10,399.72
48 cu. ft.	28 × 48 × 60"	32 × 52 × 78.5"	Alarms and Recorder	Solid stainless-steel door, double/Gray – 6 Wire	230V 60Hz, L14-20, 7.6A	MF49SS-SARE-TS	**11-670-342**	12,744.36

† Allow 3" clearance top, back and sides.

Thermo Scientific™ Revco™ High-Performance Lab Freezers

Microprocessor control simplifies operation, delivers greater accuracy

- Temperature factory-preset at -20° or -30°C
- Capacities from 4.9 to 51.1 cu. ft. (139 to 1447L)
- Icon-based controls and displays
- Large, easy-to-read digital display shows temperature within 1°C
- Graphic thermometer is steady green when temperature is normal, flashes top bar for overtemperature, flashes bulb for undertemperature

Microprocessor Control

- Audible/visual warnings for overtemperature, undertemperature or power failure
- Key-operated OFF/ON/ALARM ON master switch for setpoint security
- Push-button alarm test
- Remote alarm contacts
- Alarm silence, ringback and auto reset
- Controller battery backup system

Construction

- Scratch-resistant cold-rolled steel interior and exterior finishes
- High-density, 2" thick (5.1cm) CFC-free urethane foam insulation protects against ambient temperature fluctuations
- CFC-free, HFC-blend refrigerant
- Single-door models are hinged on right
- Full-length door handle and key lock
- Doors self-close and lock open at 90°
- Adjustable epoxy-coated wire shelves
- 1" (2.5cm) dia. access port with plug on undercounter model

Contd. on next page.

Thermo Scientific™ Revco™ High-Performance Lab Freezers, Contd.

-30°C Freezers

- Automatic defrost and condensate removal
- Sensor automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost buildup and optimizing coil efficiency
- Forced-air circulation improves temperature uniformity, provides faster recovery after door is opened

-20°C Freezers

- Suitable for applications in which slight intermittent coil warming during an automatic defrost cycle is not desired (such as enzyme storage)
- Gravity convection air system for maximum stability without a blower or fan
- Manual defrost

Revco High-Performance Lab Freezers

ORDERING INFORMATION:
Alarm systems, temperature chart recorders and power monitors are available separately.

WARRANTY:
Two years parts and labor (except 13-991-129, which is 16 months parts and labor)

Specifications	
Temperature Control	Microprocessor
Refrigerant	CFC-free
Insulation	CFC-free urethane foam
Cabinet	Scratch-resistant painted steel
Chamber	Scratch-resistant painted steel

COMPLIANCE:
UL and CUL listed. CE marked.

NOTES:
Published interior volumes are nominal; usable capacities may be offset by shelves, drawers, blower coils or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact your Customer Service Representative.

Capacity	Doors/No. of Shelves	Interior D × W × H†	Exterior L × W × H‡	Elec. Reqts.††, NEMA Plug (Amps/Breaker)	Mfr. No.	Cat. No.	Each
-30°C Undercounter Model							
4.9 cu. ft. (133L)	1 Solid/3	20 × 20 × 20" (50.8 × 50.8 × 50.8cm)	28.9 × 24 × 34" (73.4 × 61 × 86.4cm)	115V 60Hz, 5-15P (8/15)	ULT430A	**13-990-266**	5539.40
4.9 cu. ft. (133L)	1 solid/3	20 × 20 × 20" (50.8 × 50.8 × 50.8cm)	28.9 × 24 × 34" (73.4 × 61 × 86.4cm)	208/230V 60Hz, 6-15P (6/15)	ULT430D	**14-259-233**	5560.92
-30°C Space-Saver Model							
11.5 cu. ft. (326L)	1 Solid/4	21 × 20 × 52.4" (53.3 × 50.8 × 133.1cm)	30 × 24 × 73.6" (76.2 × 61 × 186.9cm)	115V 60Hz, 5-15P (8/15)	ULT1230A	**22-285-655**	6837.31
-30°C Upright Models							
23.3 cu. ft. (659L)	1 Solid/4	29 × 24 × 58" (73.7 × 61 × 147.3cm)	37.2 × 28 × 79.2" (94.5 × 71.1 × 201.2cm)	115V 60Hz, 5-20P (16/20)	ULT2330A	**13-990-70**	7716.31
23.3 cu. ft. (659L)	1 Solid/4	29 × 24 × 58" (73.7 × 61 × 147.3cm)	37.2 × 28 × 79.2" (94.5 × 71.1 × 201.2cm)	208/230V, 60Hz, 6-15 (12/15)	ULT2330D	**13-989-229**	7716.31
29.2 cu. ft. (826L)	1 Solid/4	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	37.2 × 34 × 79.2" (94.5 × 86.4 × 201.2cm)	115V 60Hz, 5-20P (16/20)	ULT3030A	**13-991-127**	8881.40
29.2 cu. ft. (826L)	1 Solid/4	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	37.2 × 34 × 79.2" (94.5 × 86.4 × 201.2cm)	208/230V, 60Hz, 6-15 (12/15)	ULT3030D	**13-989-230**	8881.40
29.2 cu. ft. (826L)	1 Solid/4	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	37.2 × 34 × 79.2" (94.5 × 86.4 × 201.2cm)	220V 50Hz, 5-20P (12/15)	ULT3030V	**13-991-129**	8901.84
51.1 cu. ft. (1447L)	2 Solid/8	29 × 52.5 × 58" (73.7 × 133.4 × 147.3cm)	37.2 × 56.5 × 79.2" (94.5 × 143.5 × 201.2cm)	115V 60Hz, 5-20P (16/20)	ULT5030A	**22-285-651**	10,730.53
51.1 cu. ft. (1447L)	2 Solid/8	29 × 52.5 × 58" (73.7 × 133.4 × 147.3cm)	37.2 × 56.5 × 79.2" (94.5 × 143.5 × 201.2cm)	208/230V 60Hz, 6-15P (12/15)	ULT5030D	**22-285-652**	10,730.53
-20°C Upright Models							
23.3 cu. ft. (659L)	1 Solid/4	29 × 24 × 58" (74 × 61 × 147cm)	37.2 × 29 × 79.2" (94.5 × 74 × 201cm)	115V 60Hz, 5-20P (13.5/20)	UGL2320A	**13-990-205**	7243.56
23.3 cu. ft. (659L)	1 Solid/4	29 × 24 × 58" (74 × 61 × 147cm)	29 × 24 × 58" (74 × 61 × 147cm)	208/230V, 60Hz, 6-15P (5.6/15)	UGL2320D	**13-990-207**	7212.78

† Published interior volumes are nominal; usable capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions.
‡ For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact your Fisher Scientific Customer Service Representative.
†† Additional voltages are available; contact your Fisher Scientific Customer Service Representative for details.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Special Purpose

Fisher Scientific™ Isotemp™ Explosion-Proof Freezers

For storing volatile materials in areas with explosive atmospheres or in hazardous locations

- Temperature range: -20° to -12°C
- Average temperature stability: ±3°C
- Adjust setpoint while running
- Capacity: 20.6 cu. ft. (583L)
- Manual defrost

Safety Features

- Red warning label on front: "Explosion-Proof Freezer"
- Compressors have enclosed overloads, relays
- Top-mounted, explosion-proof thermostats
- Static hot-wall condensers and evaporators are free of electric fans

Construction

- White, baked-on polyester enamel exteriors
- Hinged solid door with key lock
- White epoxy-coated steel interiors with ABS plastic door liner
- CFC-free R404A refrigerant, polyurethane foam insulation

ORDERING INFORMATION:
For 115V 60Hz. Not equipped with line cord and plug; must be hardwired into an appropriately rated conduit box to comply with NEC code.

WARRANTY:
13 months, parts and labor

CERTIFICATIONS:
UL listed, CSA approved

13-986-150

Capacity	Interior D × W × H	No. of Shelves	Exterior L × W × H†	Net Weight	Amps/Breaker	Cat. No.	Each
20.6 cu. ft. (583L)	20 × 27 × 57" (51 × 67 × 145cm)	4 fixed	31 × 32 × 71" (79 × 81 × 180cm)	200 lb. (91kg)	12/15	**13-986-150**	4317.06

† Allow 4" clearance top, back and sides.

Fisher Scientific™ Isotemp™ Flammable-Materials Storage Freezers

For storing volatile materials, pharmaceuticals, clinical reagents and biological samples

- Temperature range: -20° to -12°C (average stability ±3°C)
- Manual defrost
- Four fixed shelves (13.5 sq. ft. capacity)

Safety Features

- Sparkproof interiors separate contents from compressor and motor
- Top-mounted hydraulic thermostat and door stop
- Magnetic door gaskets provide airtight seals that insulate and prevent release of hazardous fumes
- Compressors have enclosed overloads, relays and thermostats to prevent sparks from escaping during opening and closing
- Static hot-wall condensers and evaporators are free of electric fans

Construction

- One hinged solid door with key lock
- White, baked-on polyester enamel exterior with orange warning label
- White epoxy-coated steel interior with ABS plastic door liner
- CFC-free R404A refrigerant, polyurethane foam insulation

ORDERING INFORMATION:
For 115V 60Hz. Supplied with NEMA 5-15P power cord; requires NEMA 5-15R wall receptacle. Freestanding (13-986-160), Standard Remote (13-986-32A) and Deluxe Remote (13-986-100) alarm systems available separately.

WARRANTY:
13 months, parts and labor

CERTIFICATIONS:
UL listed, CSA approved

13-986-149

Model	Temperature Range	Interior D × W × H	Exterior L × W × H	Shipping Weight	Amps/Breaker	Cat. No.	Each
20.6 cu. ft. (583L)	-20° to -12°C	20 × 27 × 57" (51 × 67 × 145cm)	36 × 32 × 73" (91 × 81 × 185cm)	200 lb. (91kg)	12/15	**13-986-149**	3744.18

Fisher Scientific™ Special-Purpose Undercounter Freezers

Compact flammable-materials storage and explosion-proof models

- Adjustable temperatures from -20° to -15°C (-4° to +5°F)
- Capacity, 5.6 cu. ft. (159L)
- Manual defrost
- R-134a CFC-free refrigerant
- 360w compressors
- Baked-on, acrylic enamel exterior
- Easy-to-clean formed interior
- Solid door mounted to open from left

Flammable-Materials Storage Model

- Accidental ignition of refrigerator contents is prevented by specially designed compressor with enclosed overload, relay and hydraulic thermostat
- Static condenser free of electric fan
- Aluminum evaporator coil
- Two fixed shelves, three door shelves
- Requires extra clearance when recessed

Explosion-Proof Model

- Mechanical assembly design prevents accidental explosion of environmental vapors
- Wiring totally enclosed in sealed pipes
- Hydraulic thermostat enclosed by precision-machined housing
- Two fixed shelves, three door shelves
- Must be hardwired to an appropriately rated conduit box

97-928-1

WARRANTY: Two years parts, one year labor

COMPLIANCE: Flammable-Materials Storage Model complies with NFPA Standard Numbers 45 and 99 and OSHA 29CFR1910.308. Explosion-Proof Model wiring complies with NEC Articles 500-501 for use in Class 1, Groups C and D hazardous locations.

CERTIFICATIONS: UL listed

Model	Interior D × W × H	Exterior L × W × H	Cat. No.	Each
Explosion-Proof	15 × 18 × 28.5" (38 × 46 × 70cm)	29.75 × 21 × 33.5" (64 × 54 × 85cm)	**97-928-1**	3263.37
Flammable-Materials Storage	15 × 18 × 28.5" (38 × 46 × 70cm)	31.4 × 21 × 33.5" (64 × 54 × 85cm)	**97-925-1**	3457.74

Thermo Scientific™ Revco™ Enzyme Freezer

Digital electronic technology ensures temperature accuracy and stability

Ideal for applications in which slight intermittent coil warming during an automatic defrost cycle is not desirable.

- Operating temperature: -20°C
- Preset temperature setpoint
- Upright 23.3 cu. ft. (659L) capacity
- Gravity convection air system for maximum stability without blowers or fans
- Manual defrost

Microprocessor Control System

- Icon-based controls and displays
- Graphic thermometer is steady green when temperature is normal, flashes top bar for overtemperature, flashes bulb for undertemperature
- Large, easy-to-read digital display of temperature within 0.1°C
- Audible/visual warnings for overtemperature, undertemperature or power failure
- Key-operated OFF/ON/ALARM ON master switch for setpoint security
- Push-button alarm test
- Remote alarm contacts
- Alarm silence, ringback and auto reset
- Battery backup system

Construction

- Scratch-resistant, painted cold-rolled steel interior and exterior finishes
- Solid door with full-length handle and keyed lock — self-closes against closed-cell peripheral gasket
- High-density, CFC-free urethane foam insulation protects cabinet from ambient temperature fluctuations and minimizes operating costs
- Hermetically sealed heavy-duty, industrial-grade compressor
- Nine epoxy-coated, open-wire shelves, adjustable in 1" (2.5cm) increments
- Adjustable leveling feet

ORDERING INFORMATION: Alarm systems, temperature chart recorders, and power monitors available separately. Contact your customer service representative for details.

INCLUDES: 45 high-impact plastic enzyme storage bins for easily accessible inventory. Bin overall dimensions (L × W × H): 25.25 × 4.25 × 3" (64 × 11 × 8cm); labels not provided.

WARRANTY: Two years, parts and labor

COMPLIANCE: Meets UL, CUL and CE criteria for safety and performance

13-990-206

NOTES: Published interior volumes are nominal; usable capacities may be offset by shelves, drawers, blower coils or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact your customer service representative.

Specifications	
Operating Temperature	-20°C
Temperature Control	Microprocessor
Temperature Resolution	1°C
Defrost	Manual
Refrigerant	CFC-free
No. of Shelves	9
Door(s)	One solid
Cabinet	Scratch-resistant painted
Chamber	Scratch-resistant painted

Capacity	Electrical	Plug Type	Mfr. No.	Cat. No.	Each
23.3 cu. ft. (659L)	115V 60Hz	5-20P	UEN2320A	**13-990-206**	8351.64

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Revco™ Plasma Freezers

Microprocessor control, industrial-quality cabinet construction and extra-strength refrigeration compressors for safety and performance in plasma storage

- Preset temperature at -30°C
- Automatic condensate removal and defrost, with sensor that automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost buildup and optimizing coil efficiency
- Positive airflow systems

Microprocessor Control

- Simplifies operation, delivers greater accuracy
- Icon-based controls and displays
- Preset temperature setpoint
- Graphic thermometer is steady green when temperature is normal; flashes top bar for overtemperature, bulb for undertemperature
- Large, easy-to-read digital display shows temperature within 1°C
- Audible/visual warnings for overtemperature, undertemperature or power failure
- Key-operated OFF/ON/ALARM ON master switch for setpoint security
- Push-button alarm test
- Remote alarm contacts
- Alarm silence, ringback and auto reset
- Controller battery backup system

Construction

- Cold-rolled steel cabinet surfaces finished with high-impact powder paint coating
- One solid door, hinged on right (except 51.1 cu. ft. model: two solid doors with keyed lock, self-close against closed-cell peripheral gasket)
- Full-length door handles
- Adjustable leveling feet
- High-density, CFC-free urethane foam insulation protects cabinet interior from ambient temperature fluctuations, minimizes operating costs
- Positive, forced-air circulation maintains uniformity at all shelf levels
- Directional airflow assures quick recovery after door openings
- Heavy-duty, hermetically sealed compressors
- CFC-free refrigerant
- 1" (2.5cm) access port with plug on undercounter model only

ORDERING INFORMATION:
Alarm systems, temperature chart recorders and power monitors available separately. For additional voltages, contact your CSR.

Revco Plasma Freezer

INCLUDES:
Space-saver and upright models come with a 6" (15.2cm) seven-day circular chart temperature recorder (optional free-standing on undercounter model) and extra-long probe for manual alarm testing.

WARRANTY:
Two years, parts and labor

COMPLIANCE:
Meet UL, CUL and CE requirements; TUV criteria; AABB, ANRC and FDA guidelines

Specifications	
Temperature	-30°C
Temperature Resolution	1°C
Temperature Control	Microprocessor
Display	Graphic thermometer and digital display
Defrost	Automatic
Refrigerant	CFC-free
Cabinet	High-impact powder paint coating
Chamber	High-impact powder paint coating
Compressor	Heavy-duty, industrial-grade, hermetically sealed
Insulation	High-density, CFC-free urethane foam

Type	Model	Capacity	Drawers	Plug Type	Electrical	Mfr. No.	Cat. No.	Each
Undercounter	UFP430A	4.9 cu. ft. (133L)	2	5-15P	115V 60Hz	UFP430A	**13-991-148**	7409.24
Undercounter	UFP430A	4.9 cu. ft. (133L)	2	NEMA 6-15P	208/230V 60Hz	UFP430D	**14-259-234**	7419.46
Space-saver	UFP1230A	11.5 cu. ft. (326L)	7	5-15P	115V 60Hz	UFP1230A	**13-990-83**	10,076.48
Upright	UFP2330A	23.3 cu. ft. (659L)	7	5-20P	115V 60Hz	UFP2330A	**22-285-706**	12,172.51
Upright	UFP3030A	29.2 cu. ft. (826L)	7	5-20P	115V 60Hz	UFP3030A	**13-991-124**	13,582.53
Upright	UFP5030A	51.1 cu. ft. (1447L)	14	5-20P	115V 60Hz	UFP5030A	**22-285-707**	16,484.66

Thermo Scientific™ Revco™ FMS High-Performance Laboratory Freezers

For the protection of flammable materials, solvents and intermediates

These freezers are designed to maintain a safe environment while keeping valuable samples within a tight temperature range. Each freezer is listed by UL as a special purpose freezer intended for flammable material storage in accordance with NFPA 45, 70 and 99.

- Easy to use intuitive digital display featuring microprocessor control
- Lockable doors, audio and visual alarms including door ajar alarms for security and peace of mind
- Convenient access port and casters
- Outstanding construction featuring painted, high-quality steel exteriors with durable finish
- Ignition-free interior cabinet design for the safe storage of flammable materials
- Meets safety standards in accordance with UL, NFPA and OSHA for regulatory compliance
- Manual defrost
- Optional, built-in, inkless, seven-day graphic chart recorder
- Optional, barrier-protected 4-20 milliamp output for external monitoring

ORDERING INFORMATION: Chart recorders and 4-20 milliamp are available separately. Not available outside North America.

CERTIFICATIONS: UL

NOTES:
Products complying with the applicable requirements of NFPA 70, "National Electric Code", NPFA 45, "Fire Protection for L aboratories Using Chemicals" and NFPA 99 "Health Care Facilities" are considered to meet the OSHA guidelines for these types of facilities. These units have no internal electrical components that could trigger an explosion or fire of flammable materials inside the unit. Flammable material storage units are not for use in classified hazardous locations which require the use of explosion-proof units.

RFMS2320A

Capacity	Interior D × W × H	Exterior D × W × H	Defrost	No. of Doors / Shelves	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
23 cu. ft. (651L)	29 × 24 × 58" (73.7 × 61 × 147.3cm)	37 × 28 × 78.6" (94 × 72 × 200cm)	Manual	1 Solid / 4	115V 60Hz	425 lb. (193kg)	RFMS2320A	**RFMS2320A**	7944.00

Thermo Scientific™ TSHP FMS High-Performance Laboratory Freezers

For the protection of flammable materials, solvents and intermediates

These freezers are designed to maintain a safe environment while keeping valuable samples within a tight temperature range. Each freezer is listed by UL as a special purpose freezer intended for flammable material storage in accordance with NFPA 45, 70 and 99.45, 70 and 99.

- Easy to use intuitive digital display featuring microprocessor control
- Lockable doors, audio and visual alarms including door ajar alarms for security and peace of mind
- Convenient access port and casters
- Outstanding construction featuring painted, high-quality steel interiors with durable finish
- Ignition-free interior cabinet design for the safe storage of flammable materials
- Meets safety standards in accordance with UL, NFPA and OSHA for regulatory compliance
- Optional, built-in, inkless, seven-day graphic chart recorder
- Optional, barrier-protected 4-20 milliamp output for external monitoring
- Manual defrost

ORDERING INFORMATION:
Chart recorder and 4-20 milliamp are available separately. Not available outside North America

CERTIFICATIONS:
UL

NOTES:
Products complying with the applicable requirements of NFPA 70, "National Electric Code", NPFA 45, "Fire Protection for Laboratories Using Chemicals" and NFPA 99 "Health Care Facilities" are considered to meet the OSHA guidelines for these types of facilities. These units have no internal electrical components that could trigger an explosion or fire of flammable materials inside the unit. Flammable material storage units are not for use in classified hazardous locations which require the use of explosion-proof units.

TSFMS2320A

Interior D × W × H	Exterior D × W × H	Defrost	No. of Doors / Shelves	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
29 × 24 × 58" (73.7 × 61 × 147.3cm)	37 × 28 × 78.6" (94 × 72 × 200cm)	Manual	1 Solid/4	115V 60Hz 13.5/20 5-20P	425 lb. (193kg)	TSFMS2320A	**TSFMS2320A**	7944.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Ultra-Low Temperature

Thermo Scientific™ Forma™ 88000 Series -86°C Upright Ultra-Low Temperature Freezers

88300 Series

Ultimate protection and optimum capacity

- More samples, less freezer footprint: Choice of five capacities maximize sample storage while minimizing the freezer's physical space inside the lab
- Choice of refrigeration: For the strictest tolerances, the high-performance mode provides the tightest temperature uniformity and peak variation — for most applications, energy-savings mode offers excellent temperature control, plus up to 15% savings on energy usage compared to high performance mode
- New cabinet + vacuum insulation panel technology: increases the internal capacity of 2" vials over previous generation freezers — gain up to 76% more capacity in the same footprint with 1mL CryoBank tubes
- Sample storage capacity: Five sizes accommodate any size lab, featuring the industry's leading capacity per footprint specifications
- Innovative, touch-screen user interface: Monitor the freezer's health 24/7 and access a detailed event log — simply touch the heart icon on the main screen to see freezer's temperature and access settings and operating parameters
- Built-in USB port: Obtain a record, simply download a report of the current event log to a portable drive
- Environmentally-friendly, CFC/HCFC free refrigerants
- NEW refrigeration system: with high-efficiency compressors for outstanding performance and reliability
- Brazed plate heat exchanger for more efficient heat transfer — induction brazed joints to reduce leak potential and improve reliability
- Power management system: protects against a wide range of voltage variation and is easily accessible through the touch-screen display
- Remote alarm contacts: with 4-20 milliamp output compatible with external alarm and monitoring systems
- Two rear access, 1" (25mm) ports: allow for the use of inexpedient probes or instrumentation
- On-board data storage: Store up to 15 years worth of temperature and event data on our on-board computer
- Easily exchange data: Use the new USB port to download freezer temperature and event log data, or freezer settings from one freezer to another
- Easy-to-remove, washable filter: Provides protection against dust on the condenser, which can cause reduced refrigeration performance and increased risk to samples
- NEW reinforced shelves: Store up to 278 lbs. of samples (depending on freezer model) on the reinforced, stainless-steel shelving
- NEW outer door gaskets: 4 × 7 heated gasket provides four touchpoints of security and seven zones of protection, maximizing cabinet temperature and eliminating frost build-up
- NEW inner doors: Five polystyrene insulated inner doors help maintain cabinet temperature during openings and feature embedded rare earth magnets, eliminating exposed latches or magnets
- Several optional features including LN2 and CO2 back-up system, chart recorder, stainless steel inventory racking solutions and hands-free locking option

WARRANTY: Two years parts and labor plus an additional three years compressor parts only (U.S.)

CERTIFICATIONS: cULus, CE listed

Capacity	Interior D × W × H	Exterior D × W × H	Inner Doors	No. of Boxes	Electrical Requirements	Shipping Weight	Cat. No.	Each
14.9 cu. ft. (420.9L)	28.29 × 17.778 × 51.225" (71.8566 × 45.15612 × 130.1115cm)	37.6 × 27 × 78" (95.5 × 68.6 × 198.1cm)	4	300	115V/60Hz	667 lb. (303kg)	**88300A**	14,728.19
14.9 cu. ft. (420.9L)	28.29 × 17.778 × 51.225" (71.8566 × 45.15612 × 130.1115cm)	37.6 × 27 × 78" (95.5 × 68.6 × 198.1cm)	4	300	208-230V/60Hz	667 lb. (303kg)	**88300D**	14,728.19
14.9 cu. ft. (420.9L)	28.29 × 17.778 × 51.225" (71.8566 × 45.15612 × 130.1115cm)	37.6 × 27 × 78" (95.5 × 68.6 × 198.1cm)	4	300	230V/50Hz	667 lb. (303kg)	**88300V**	14,728.19
19.4 cu. ft. (547.9L)	28.29 × 23.125 × 51.225" (71.8566 × 58.7375 × 130.1115cm)	37.6 × 32.4 × 78" (95.5 × 82.2 × 198.1cm)	4	400	115V/60Hz	730 lb. (332kg)	**88400A**	16,649.19
19.4 cu. ft. (547.9L)	28.29 × 23.125 × 51.225" (71.8566 × 58.7375 × 130.1115cm)	37.6 × 32.4 × 78" (95.5 × 82.2 × 198.1cm)	4	400	208-230V/60Hz	730 lb. (332kg)	**88400D**	16,649.19
19.4 cu. ft. (547.9L)	28.29 × 23.125 × 51.225" (71.8566 × 58.7375 × 130.1115cm)	37.6 × 32.4 × 78" (95.5 × 82.2 × 198.1cm)	4	400	230V/50Hz	730 lb. (332kg)	**88400V**	16,659.41
24.1 cu. ft. (681.5L)	28.29 × 28.75 × 51.225" (71.8566 × 73.025 × 130.1115cm)	37.6 × 38 × 78" (95.5 × 96.5 × 198.1cm)	4	500	115V/60Hz	782 lb. (355kg)	**88500A**	17,925.13
24.1 cu. ft. (681.5L)	28.29 × 28.75 × 51.225" (71.8566 × 73.025 × 130.1115cm)	37.6 × 38 × 78" 95.5 × 96.5 × 198.1cm)	4	500	208-230V/60Hz	782 lb. (355kg)	**88500D**	17,925.13
24.1 cu. ft. (681.5L)	28.29 × 28.75 × 51.225" (71.8566 × 73.025 × 130.1115cm)	37.6 × 38 × 78" (95.5 × 96.5 × 198.1cm)	4	500	230V/50Hz	782 lb. (355kg)	**88500V**	17,935.34
28.8 cu. ft. (815.1L)	28.29 × 34.375 × 51.225" (71.8566 × 87.3125 × 130.1115cm)	37.6 × 43.6 × 78" (95.5 × 110.8 × 198.1cm)	4	600	115V/60Hz	854 lb. (388kg)	**88600A**	19,202.06
28.8 cu. ft. (815.1L)	28.29 × 34.375 × 51.225" (71.8566 × 87.3125 × 130.1115cm)	37.6 × 43.6 × 78" (95.5 × 110.8 × 198.1cm)	4	600	208-230V/60Hz	854 lb. (388kg)	**88600D**	19,202.06
28.8 cu. ft. (815.1L)	28.29 × 34.375 × 51.225" (71.8566 × 87.3125 × 130.1115cm)	37.6 × 43.6 × 78" (95.5 × 110.8 × 198.1cm)	4	600	230V/50Hz	854 lb. (388kg)	**88600V**	19,212.28
33.5 cu. ft. (948.7L)	28.29 × 40 × 51.225" (71.8566 × 101.6 × 130.1115cm)	37.6 × 49.2 × 78" (95.5 × 125.1 × 198.1cm)	4	700	208-230V/60Hz	951 lb. (432kg)	**88700D**	20,377.09
33.5 cu. ft. (948.7L)	28.29 × 40 × 51.225" (71.8566 × 101.6 × 130.1115cm)	37.6 × 49.2 × 78" (95.5 × 125.1 × 198.1cm)	4	700	230V/50Hz	951 lb. (432kg)	**88700V**	20,387.30

Thermo Scientific™ Forma™ 9000 Series -86°C Upright Ultra-Low Temperature Freezers

Uncompromised sample protection

- Feature state-of-the-art refrigeration, rugged construction and easy-to-use microprocessor controls and a range of functionality
- Microprocessor controls: Centralized, eye level information center, including microprocessor control and monitoring system ensures all controls and displays are easy to reach and read
- State-of-the-art, refrigeration system: improves temperature control and increases reserve BTUH capacity, resulting in a more stable temperature sample
- Energy-efficient double door option: Unique double door to store frequently used samples in the top chamber while long-term storage remains undisturbed in bottom
- 5" (127mm) foamed-in-place, polyurethane insulation: reduces power consumption, maintains temperature setpoint and combined with triple-point door gasket, provides longer holding time in the event of a door opening
- Rugged, heavy gauge, cold-rolled steel cabinets: with a powder-coat paint finish for a uniform exterior that resists chipping and rust
- 1" (25mm) access ports: allow for the use of inexpedient probes or instrumentation
- Secure inner doors: Four inner doors reduce cold air loss and improve temperature recovery after door closings
- Choice of painted galvaneel or stainless-steel interior
- Single-hand operation: Easy-to-use, padlock-compatible, ergonomic door handle with integrated key lock
- Optional CO_2 or LN_2 back-up: Optional choice of CO_2 or LN_2 safety back-up systems for additional sample protection in the event of a power or mechanical failure
- Optional chart recorder: Can be installed at eye level on Forma 9000 -86°C models

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
cULus, CE listed

9000 Series

Capacity	Interior D × W × H	Exterior D × W × H	No. of Boxes	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
Single Door								
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	240	115V/60Hz 16A	696 lb. (316kg)	9240A	**9240A**	13,118.69
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	240	208-230V/60Hz 12A	696 lb. (316kg)	9240D	**9240D**	13,118.69
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	320	115V/50Hz 16A	763 lb. (346kg)	9320A	**9320A**	14,340.43
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	320	208-230V/60Hz 12A	763 lb. (346kg)	9320D	**9320D**	14,340.43
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	400	115V/60Hz 16A	900 lb. (408kg)	9400A	**9400A**	15,551.54
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	400	208-230V/60Hz 12A	900 lb. (408kg)	9400D	**9400D**	15,910.82
28 cu. ft. (792.8L)	27 × 36.6 × 51.5" (68.6 × 93 × 130.8cm)	38.9 × 46.8 × 77.9" (94 × 118.9 × 197.6cm)	600	230V/60Hz 12A	900 lb. (408kg)	9600D	**9600D**	17,584.57
Double Door								
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	216	115V/60Hz 16A	696 lb. (316kg)	9216A	**9216A**	14,432.94
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	216	208-230V/60Hz 12A	696 lb. (316kg)	9216D	**9216D**	14,432.94
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	288	115V/60Hz 16A	763 lb. (346kg)	9288A	**9288A**	15,767.10
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	288	208-230V/60Hz 12A	763 lb. (346kg)	9288D	**9288D**	15,767.10
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	360	115V/60Hz 16A	900 lb. (408kg)	9360A	**9360A**	17,101.17
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	360	208-230V/60Hz 12A	900 lb. (408kg)	9360D	**9360D**	17,501.49

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Forma™ 900 Series -86°C Upright Ultra-Low Temperature Freezers

Uncompromised sample protection

- Feature state-of-the-art refrigeration, rugged construction and easy-to-use microprocessor controls and a range of functionality
- Microprocessor controls: Centralized, eye level information center, including microprocessor control and monitoring system ensures all controls and displays are easy to reach and read
- State-of-the-art, refrigeration system: improves temperature control and increases reserve BTUH capacity, resulting in a more stable temperature sample
- Energy-efficient double door option: Unique double door to store frequently used samples in the top chamber while long-term storage remains undisturbed in bottom
- 5" (127mm) foamed-in-place, polyurethane insulation: reduces power consumption, maintains temperature setpoint and combined with triple-point door gasket, provides longer holding time in the event of a door opening
- Rugged, heavy gauge, cold-rolled steel cabinets: with a powder-coat paint finish for a uniform exterior that resists chipping and rust
- 1" (25mm) access ports: allow for the use of inexpedient probes or instrumentation
- Secure inner doors: Four inner doors reduce cold air loss and improve temperature recovery after door closings
- Choice of painted galvaneel or stainless-steel interior
- Single-hand operation: Easy-to-use, padlock-compatible, ergonomic door handle with integrated key lock
- Optional CO_2 or LN_2 back-up: Optional choice of CO_2 or LN_2 safety back-up systems for additional sample protection in the event of a power or mechanical failure
- Optional chart recorder: Can be installed at eye level on Forma 900 -86°C models

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
cULus, CE listed

956, 957, 906

Capacity	Interior D × W × H	Exterior D × W × H	No. of Boxes	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
Single Door, with four inner doors								
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	240	115V/60Hz 16A	696 lb. (316kg)	903	**903**	12,810.74
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	240	208-230V/60Hz 12A	696 lb. (316kg)	909	**909**	12,810.74
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	240	230V/50Hz 12A	696 lb. (316kg)	902	**902**	13,118.69
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	320	115V/50Hz 16A	763 lb. (346kg)	904	**904**	14,001.68
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	320	208-230V/60Hz 12A	763 lb. (346kg)	910	**910FORMA**	14,001.68
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	320	230V/50Hz 12A	763 lb. (346kg)	905	**905**	14,001.68
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	400	115V/60Hz 16A	900 lb. (408kg)	956	**956**	15,551.54
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	400	208-230V/60Hz 12A	900 lb. (408kg)	957	**957**	15,990.32
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	400	230V/50Hz 12A	900 lb. (408kg)	906	**906**	15,551.54
28 cu. ft. (792.8L)	26.5 × 36.6 × 51.5" (67.3 × 93 × 130.8cm)	38.9 × 46.8 × 77.9" (94 × 118.9 × 197.6cm)	600	208-230V/60Hz 12A	900 lb. (408kg)	908	**908**	17,584.57
28 cu. ft. (792.8L)	26.5 × 36.6 × 51.5" (67.3 × 93 × 130.8cm)	38.9 × 46.8 × 77.9" (94 × 118.9 × 197.6cm)	600	230V/50Hz 12A	1070 lb. (485kg)	907	**907**	17,584.57
Double Doors, with four inner doors								
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	216	115V/60Hz 16A	696 lb. (316kg)	992	**992**	14,094.18
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	216	208-230V/60Hz 12A	696 lb. (316kg)	986	**986**	14,490.73
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	216	230V/50Hz 12A	696 lb. (316kg)	991	**991**	14,432.94
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	288	115V/60Hz 16A	763 lb. (346kg)	993	**993**	15,407.83
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	288	208-230V/60Hz 12A	763 lb. (346kg)	988	**988**	15,407.83
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	288	230V/50Hz 12A	763 lb. (346kg)	994	**994**	15,767.10

Thermo Scientific™ Forma™ 7000 Series -40°C Upright Ultra-Low Temperature Freezers

Uncompromised sample protection for -10°C to -40°C applications

- Feature state-of-the-art refrigeration, rugged construction and easy-to-use microprocessor controls and a range of functionality
- Microprocessor controls: Centralized, knee level information center, including microprocessor control and monitoring system ensures all controls and displays are easy to reach and read
- State-of-the-art, refrigeration system: improves temperature control and increases reserve BTUH capacity, resulting in a more stable temperature sample
- 5" (127mm) foamed-in-place, polyurethane insulation: reduces power consumption, maintains temperature setpoint and combined with triple-point door gasket, provides longer holding time in the event of a door opening
- Rugged, heavy gauge, cold-rolled steel cabinets: with a powder coat paint finish for a uniform exterior that resists chipping and rust
- 1" (25mm) access ports: allow for the use of inexpedient probes or instrumentation
- Secure inner doors: Four inner doors reduce cold air loss and improve temperature recovery after door closings
- Galveneel interior
- Power management system: with low voltage surge protection and buck/boost
- Easy-to-remove, washable filter: Provides protection from dust on the condenser, causing reduced refrigeration performance and increased risk to samples
- Simplified installation: with our new easy-roll 2" locking casters
- Single-hand operation: Easy-to-use, padlock-compatible, ergonomic door handle with integrated key lock
- Optional CO_2 or LN_2 back-up: Optional choice of CO_2 or LN_2 safety back-up systems for additional sample protection in the event of a power or mechanical failure
- Optional chart recorder: Can be installed at knee level on Forma 7000 -40°C models

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
cULus, CE listed

7000 Series

Capacity	Interior D × W × H	Exterior D × W × H	Inner Doors	No. of Boxes	Electrical Requirements	Shipping Weight	Cat. No.	Each
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	4	240	115V/60Hz 16A	696 lb. (316kg)	**7240A**	9382.72
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	4	240	208-230V/60Hz 12A	696 lb. (316kg)	**7240D**	9382.72
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	4	240	230V/50Hz 12A	696 lb. (316kg)	**7240V**	9392.99
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (98.8 × 84.6 × 197.9cm)	4	320	115V/60Hz 16A	810 lb. (367kg)	**7320A**	10,460.21
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (98.8 × 84.6 × 197.9cm)	4	320	208-230V/60Hz 12A	810 lb. (367kg)	**7320D**	10,460.21
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (98.8 × 84.6 × 197.9cm)	4	320	230V/50Hz 12A	810 lb. (367kg)	**7320V**	10,460.21
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (98.8 × 103.6 × 197.9cm)	4	400	115V/60Hz 16A	920 lb. (417kg)	**7400A**	12,328.36
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (98.8 × 103.6 × 197.9cm)	4	400	208-230V/60Hz 12A	920 lb. (417kg)	**7400D**	12,328.36
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (98.8 × 103.6 × 197.9cm)	4	400	230V/50Hz 12A	920 lb. (417kg)	**7400V**	12,338.62

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Prices subject to change.

Thermo Scientific™ Revco™ UxF -86ºC Upright Ultra-Low Temperature Freezers

UXF30086 Series

Ultimate protection and optimum capacity

- More samples, less freezer footprint: maximize sample storage capacity while minimizing the freezer's physical space inside the lab
- Performance: features an outstanding BTU (British thermal unit) reserve. This leads to fast door recovery times so that sample integrity isn't compromised
- Energy-efficiency: allow you to save up to 15% in energy usage with the energy-savings mode or choose the high-performance mode for applications requiring ultra-tight temperature uniformity — all through an easy-to-use, touch-screen interface
- Sample storage capacity: available in five sizes, featuring outstanding capacity per footprint specifications
- Safety and security: feature an innovative, touch-screen control panel that allows 24/7 monitoring of the freezer's health provides access to a detailed event log — built-in USB port enables easy downloading of event log reports to a portable drive
- New cabinet + vacuum insulation panel technology: increases the internal capacity of 2" vials up to 4.2 percent gain up to 76% more capacity in the same footprint with 1mL CryoBank tubes
- Choice of refrigeration: For the strictest tolerances, the high-performance mode provides the tightest temperature uniformity and peak variation — for most applications, energy-savings mode offers excellent temperature control, plus up to 15% savings on energy usage
- Environmentally-friendly, CFC/HCFC free refrigerants
- NEW refrigeration system: with high-efficiency compressors for excellent performance and reliability
- Brazed plate heat exchanger for more efficient heat transfer — induction brazed joints to reduce leak potential and improve reliability
- Power management system: protects against a wide range of voltage variation and is easily accessible through the touch-screen display
- Remote alarm contacts: with 4-20 milliamp output compatible with external alarm and monitoring systems
- Two rear access, 1" (25mm) ports: allow for the use of inexpedient probes or instrumentation
- On-board data storage: Store up to 15 years worth of temperature and event data on our on-board computer
- Easily exchange data: Use the new USB port to download freezer temperature and event log data or freezer settings from one freezer to another
- Easy-to-remove, washable filter: Provides protection against dust on the condenser, which can cause reduced refrigeration performance and increased risk to samples
- New reinforced shelves: Store up to 278 lbs. of samples (depending on freezer model) on our reinforced, stainless-steel shelving
- New outer door gaskets: 4 × 7 heated gasket provides four touchpoints of security and seven zones of protection, maximizing cabinet temperature and eliminating frost build-up
- New inner doors: Five polystyrene insulated inner doors help maintain cabinet temperature during openings and feature embedded rare earth magnets, eliminating exposed latches or magnets
- Several optional features including: LN2 and CO2 back-up systems, chart recorder, stainless steel inventory racking solutions and hands-free, proximity-card access system

WARRANTY: Two years parts and labor plus an additional three years compressor parts only (U.S.)

CERTIFICATIONS: cULus, CE listed

Capacity	Interior D × W × H	Exterior D × W × H	Inner Doors	No. of Boxes	Electrical Requirements	Shipping Weight	Cat. No.	Each
14.9 cu. ft. (420.9L)	28.29 × 17.778 × 51.225" (71.8566 × 45.15612 × 130.1115cm)	37.6 × 27 × 78" (95.5 × 68.6 × 198.1cm)	5	300	115V/60Hz 16/20	667 lb. (303kg)	**UXF30086A**	14,728.19
14.9 cu. ft. (420.9L)	28.29 × 17.778 × 51.225" (71.8566 × 45.15612 × 130.1115cm)	37.6 × 27 × 78" (95.5 × 68.6 × 198.1cm)	5	300	208-230V/60Hz 12/15	667 lb. (303kg)	**UXF30086D**	14,728.19
14.9 cu. ft. (420.9L)	28.29 × 17.778 × 51.225" (71.8566 × 45.15612 × 130.1115cm)	37.6 × 27 × 78" (95.5 × 68.6 × 198.1cm)	5	300	230V/50Hz 12/16	667 lb. (303kg)	**UXF30086V**	14,728.19
19.4 cu. ft. (547.9L)	28.29 × 23.125 × 51.225" (71.8566 × 58.7375 × 130.1115cm)	37.6 × 32.4 × 78" (95.5 × 82.2 × 198.1cm)	5	400	115V/60Hz 16/20	730 lb. (332kg)	**UXF40086A**	16,649.19
19.4 cu. ft. (547.9L)	28.29 × 23.125 × 51.225" (71.8566 × 58.7375 × 130.1115cm)	37.6 × 32.4 × 78" (95.5 × 82.2 × 198.1cm)	5	400	208-230V/60Hz 12/15	730 lb. (332kg)	**UXF40086D**	16,649.19
19.4 cu. ft. (547.9L)	28.29 × 23.125 × 51.225" (71.8566 × 58.7375 × 130.1115cm)	37.6 × 32.4 × 78" (95.5 × 82.2 × 198.1cm)	5	400	230V/50Hz 12/16	730 lb. (332kg)	**UXF40086V**	16,659.41
24.1 cu. ft. (681.5L)	28.29 × 28.75 × 51.225" (71.8566 × 73.025 × 130.1115cm)	37.6 × 38 × 78" (95.5 × 96.5 × 198.1cm)	5	500	115V/60Hz 16/20	782 lb. (355kg)	**UXF50086A**	17,925.13
24.1 cu. ft. (681.5L)	28.29 × 28.75 × 51.225" (71.8566 × 73.025 × 130.1115cm)	37.6 × 38 × 78" (95.5 × 96.5 × 198.1cm)	5	500	208-230V/60Hz 12/15	782 lb. (355kg)	**UXF50086D**	17,925.13
24.1 cu. ft. (681.5L)	28.29 × 28.75 × 51.225" (71.8566 × 73.025 × 130.1115cm)	37.6 × 38 × 78" (95.5 × 96.5 × 198.1cm)	5	500	230V/50Hz 12/16	782 lb. (355kg)	**UXF50086V**	17,935.34
28.8 cu. ft. (815.1L)	28.29 × 34.375 × 51.225" (71.8566 × 87.3125 × 130.1115cm)	37.6 × 43.6 × 78" (95.5 × 110.8 × 198.1cm)	5	600	115V/60Hz 16/20	854 lb. (388kg)	**UXF60086A**	19,202.06
28.8 cu. ft. (815.1L)	28.29 × 34.375 × 51.225" (71.8566 × 87.3125 × 130.1115cm)	37.6 × 43.6 × 78" (95.5 × 110.8 × 198.1cm)	5	600	208-230V/60Hz 12/15	854 lb. (388kg)	**UXF60086D**	19,202.06
28.8 cu. ft. (815.1L)	28.29 × 34.375 × 51.225" (71.8566 × 87.3125 × 130.1115cm)	37.6 × 43.6 × 78" (95.5 × 110.8 × 198.1cm)	5	600	230V/50Hz 12/16	854 lb. (388kg)	**UXF60086V**	19,212.28
33.5 cu. ft. (948.7L)	28.29 × 40 × 51.225" (71.8566 × 101.6 × 130.1115cm)	37.6 × 49.2 × 78" (95.5 × 125.1 × 198.1cm)	5	700	208-230V/60Hz 16/20	951 lb. (432kg)	**UXF70086D**	20,377.09
33.5 cu. ft. (948.7L)	28.29 × 40 × 51.225" (71.8566 × 101.6 × 130.1115cm)	37.6 × 49.2 × 78" (95.5 × 125.1 × 198.1cm)	5	700	230V/50Hz 12/15	951 lb. (432kg)	**UXF70086V**	20,387.30

Thermo Scientific™ Revco™ ExF -86°C Upright Ultra-Low Temperature Freezers

Uncompromised sample protection

- Features a state-of-the-art refrigeration system, rugged construction
- Eye-level, easy-to-use microprocessor control panel
- Choice of painted galvaneel or stainless- steel interior in four sizes: 13, 17, 23 and 28 cu. ft. (240, 320, 400 and 600L) to accommodate specific lab space and capacity requirements
- Five interior compartment doors to reduce cold air loss and improve temperature recovery after door closings
- Heavy gauge, cold-rolled steel exterior construction with a powder-coat paint finish that resists chipping and rust
- 5" (127mm) foamed-in-place, polyurethane insulation
- Optional CO_2 or LN_2 safety back-up system for additional protection in the event of a power or mechanical failure
- Optional, built-in chart recorder for continuous monitoring
- Sturdy, solid, stainless-steel shelving to support a full product load
- Vacuum relief port permits easy access after door openings
- Ergonomic, lockable door handle
- Power management system with low voltage surge protection and buck/boost
- Easy-to-remove air filter
- Two (25mm) access ports

WARRANTY: Two years parts and labor plus two year compressor warranty

CERTIFICATIONS: cULus, CE listed

ExF40086 Series

Capacity	Volts	Hertz	Cat. No.	Each
Painted galvaneel interior				
13 cu. ft. (368.1L)	115V	60Hz	**EXF24086A**	12,874.47
13 cu. ft. (368.1L)	208-230V	60Hz	**EXF24086D**	12,874.47
13 cu. ft. (368.1L)	230V	50Hz	**EXF24086V**	12,874.47
17 cu. ft. (481.4L)	115V	60Hz	**EXF32086A**	14,071.34
17 cu. ft. (481.4L)	208-230V	60Hz	**EXF32086D**	14,071.34
17 cu. ft. (481.4L)	230V	50Hz	**EXF32086V**	14,081.66
23 cu. ft. (651.3L)	115V	60Hz	**EXF40086A**	15,701.13
23 cu. ft. (651.3L)	208-230V	60Hz	**EXF40086D**	15,628.91
23 cu. ft. (651.3L)	230V	50Hz	**EXF40086V**	15,628.91
28 cu. ft. (792.8L)	208-230V	60Hz	**EXF60086D**	17,672.06
28 cu. ft. (792.8L)	230V	50Hz	**EXF60086V**	17,682.37

Thermo Scientific™ Revco™ DxF -40°C Upright Ultra-Low Temperature Freezers

Uncompromised sample protection

- Features a state-of-the-art refrigeration system, rugged construction
- Knee-level, easy-to-use microprocessor control panel
- Galvaneel interior in three sizes: 13, 17 and 23 cu.ft. (240, 320, 400L) to accommodate specific lab space and capacity requirements
- Five interior compartment doors to reduce cold air loss, improve temperature recovery after door closings (five door option available)
- Heavy gauge, cold-rolled steel exterior construction with a powder coat paint finish that resists chipping and rust
- 5" (127mm) foamed-in-place, polyurethane insulation
- Optional CO_2 or LN_2 safety back-up system for additional protection in the event of a power or mechanical failure
- Optional, built-in chart recorder for continuous monitoring
- Sturdy, solid, stainless steel shelving to support a full product load
- Vacuum relief port permits easy access after door openings
- Ergonomic, lockable door handle
- Power Management System with low voltage surge protection and buck/boost
- Easy-to-remove air filter
- Two (25mm) access ports

WARRANTY: Two years parts and labor plus two year compressor warranty

CERTIFICATIONS: cULus, CE listed

DxF40040 Series

Capacity	Interior D × W × H	Exterior D × W × H	Inner Doors	No. of Boxes	Electrical Requirements	Shipping Weight	Cat. No.	Each
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	5	240/115V 60Hz	16A	711 lb. (323kg)	**DXF24040A**	9429.40
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	5	240/208-230V 60Hz	12A	711 lb. (323kg)	**DXF24040D**	9439.72
13 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (83.6 × 84.6 × 197.9cm)	5	240/230V 50Hz	12A	711 lb. (323kg)	**DXF24040V**	9439.72
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (98.8 × 84.6 × 197.9cm)	5	320/115V 60Hz	16A	830 lb. (376kg)	**DXF32040A**	10,512.25
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (98.8 × 84.6 × 197.9cm)	5	320/208-230V 60Hz	12A	830 lb. (376kg)	**DXF32040D**	10,512.25
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (98.8 × 84.6 × 197.9cm)	5	320/230V 50Hz	12A	830 lb. (376kg)	**DXF32040V**	10,512.25
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (98.8 × 103.6 × 197.9cm)	5	400/115V 60Hz	16A	940 lb. (426kg)	**DXF40040A**	12,389.69
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (98.8 × 103.6 × 197.9cm)	5	400/208-230V 60Hz	12A	940 lb. (426kg)	**DXF40040D**	12,389.69
23 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (98.8 × 103.6 × 197.9cm)	5	400/230V 50Hz	12A	940 lb. (426kg)	**DXF40040V**	12,389.69

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Revco™ CxF Series -86ºC Ultra-Low Temperature Chest Freezers

Versatile and reliable sample storage

- Eye-level, easy-to-use microprocessor control panel
- Message center: 12-character alphanumeric LED displays setpoints, system status and alarm messages
- Access code to ensure setpoint security
- Heavy gauge, cold-rolled steel exterior construction with a powder coat paint finish that resists chipping and rust
- 5" (127mm) foamed-in-place, polyurethane insulation
- Optional built-in chart recorder or data logger for continuous monitoring
- Stainless-steel interior
- Easy-to-remove air filter
- Ergonomic, lockable door handle
- Convenient interior covers minimize sample exposure to outside conditions
- Inner sub-lids protect bulk samples from ambient exposure during single sample retrievals
- Optional CO_2 or LN_2 safety back-up system for additional protection in the event of a power or mechanical failure
- RS-232 and 4-20 milliamp analog outputs for independent monitoring devices and recorders
- Heavy duty casters with locking tandem wheel design for smooth mobility

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
cULus, CE listed

Revco CxF ULT390-10 Series

Capacity	Interior D × W × H	Exterior D × W × H	No. of Boxes	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
3 cu. ft. (84.9L)	18.5 × 18.5 × 16.5" (47 × 47 × 41.9cm)	29.9 × 28.5 × 43.8" (75.9 × 72.4 × 111.3cm)	63	115V/60Hz	432 lb. (196kg)	ULT390-10-A	**ULT390-10-A**	10,347.56
3 cu. ft. (84.9L)	18.5 × 18.5 × 16.5" (47 × 47 × 41.9cm)	29.9 × 28.5 × 43.8" (75.9 × 72.4 × 111.3cm)	63	230V/50Hz	432 lb. (196kg)	ULT390-10-V	**ULT390-10-V**	10,357.87
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	252	115V/60Hz	716 lb. (325kg)	ULT1390-10-A	**ULT1390-10-A**	12,936.27
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	252	208-230V/60Hz	716 lb. (325kg)	ULT1390-10-D	**ULT1390-10-D**	12,808.19
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	252	230V/50Hz	716 lb. (325kg)	ULT1390-10-V	**ULT1390-10-V**	12,936.27
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	348	115V/60Hz	821 lb. (372kg)	ULT1790-10-A	**ULT1790-10-A**	13,905.85
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	348	208-230V/60Hz	821 lb. (372kg)	ULT1790-10-D	**ULT1790-10-D**	13,905.85
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	348	230V/50Hz	821 lb. (372kg)	ULT1790-10-V	**ULT1790-10-V**	13,916.17
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	396	115V/60Hz	833 lb. (378kg)	ULT2090-10-A	**ULT2090-10-A**	16,269.10
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	396	208-230V/60Hz	833 lb. (378kg)	ULT2090-10-D	**ULT2090-10-D**	16,269.10
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	396	230V/50Hz	833 lb. (378kg)	ULT2090-10-V	**ULT2090-10-V**	16,289.73

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Thermo Scientific™ Revco™ CxF Series -40°C Ultra-Low Temperature Chest Freezers

For extended storage of biological and chemical samples

- Eye-level, easy-to-use microprocessor control panel
- Message center: 12-character alphanumeric LED displays setpoints, system status and alarm messages
- Access code to ensure setpoint security
- Heavy gauge, cold-rolled steel exterior construction with a powder coat paint finish that resists chipping and rust
- 5" (127mm) foamed-in-place, polyurethane insulation
- Optional built-in chart recorder or data logger for continuous monitoring
- Stainless-steel interior
- Easy-to-remove air filter
- Ergonomic, lockable door handle
- Convenient interior covers minimize sample exposure to outside conditions
- Inner sub-lids protect bulk samples from ambient exposure during single sample retrievals
- Optional CO_2 or LN_2 safety back-up system for additional protection in the event of a power or mechanical failure
- RS-232 and 4-20 milliamp analog outputs for independent monitoring devices and recorders
- Heavy duty casters with locking tandem wheel design for smooth mobility

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
cULus, CE listed

ULT305-10 Series

Capacity	Interior D × W × H	Exterior D × W × H	No. of Boxes	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
3 cu. ft. (84.9L)	18.5 × 18.5 × 16.5" (47 × 47 × 41.9cm)	29.9 × 28.5 × 43.8" (75.9 × 72.4 × 111.3cm)	63	120V/60Hz	395 lb. (179kg)	ULT350-10-A	**ULT350-10-A**	6592.47
3 cu. ft. (84.9L)	18.5 × 18.5 × 16.5" (47 × 47 × 41.9cm)	29.9 × 28.5 × 43.8" (75.9 × 72.4 × 111.3cm)	63	230V/50Hz	395 lb. (179kg)	ULT350-10-V	**ULT350-10-V**	6592.47
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	252	115V/60Hz	659 lb. (299kg)	ULT1350-10-A	**ULT1350-10-A**	8654.78
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	252	208-230V/60Hz	659 lb. (299kg)	ULT1350-10-D	**ULT1350-10-D**	8569.09
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	252	230V/50Hz	659 lb. (299kg)	ULT1350-10-V	**ULT1350-10-V**	8665.09
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	348	115V/60Hz	764 lb. (347kg)	ULT1750-10-A	**ULT1750-10-A**	9872.84
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	348	208-230V/60Hz	764 lb. (347kg)	ULT1750-10-D	**ULT1750-10-D**	9883.15
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	348	230V/50Hz	764 lb. (347kg)	ULT1750-10-V	**ULT1750-10-V**	9883.15
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	396	115V/60Hz	776 lb. (352kg)	ULT2050-10-A	**ULT2050-10-A**	10,006.24
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	396	208-230V/60Hz	776 lb. (352kg)	ULT2050-10-D	**ULT2050-10-D**	10,016.56
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	396	230V/50Hz	776 lb. (352kg)	ULT2050-10-V	**ULT2050-10-V**	10,016.56

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Prices subject to change.

Fisher Scientific™ Isotemp™ -86°C Ultra-Low Temperature Chest Freezers

Improved compressor technology and user-friendly control panels

These Isotemp chest freezers feature standard RS-232 and 4-20mA outputs. The two-stage refrigeration system has a compressor which allows for quiet and reliable performance. The control panel allows for user-defined alarms and setpoints and feature audible and visual alarms.

- Capacities suited to storage and lab space needs: 3, 12.7, 17 and 20 cu. ft.
- Standard RS232 and 4-20mA outputs allow for easy connection of independent monitoring devices
- State-of-the-art control with intuitive settings controls temperature, alarm setpoints, audible/visual alarm and 12-character message system
- Optional CO_2 and LN_2 safety back-up systems provide additional product protection in the event of a power or mechanical failure

I903C Series

APPLICATIONS:
Long-term storage of biological and chemical samples.

WARRANTY:
US and Canada: Two years parts and labor.
Outside North America: 16 months, parts; additional 44 months, compressor parts.

Capacity	Interior D × W × H	Exterior D × W × H	Electrical Requirements	Shipping Weight	Cat. No.	Each
3 cu. ft. (84.9L)	18.5 × 18.5 × 16.5" (47 × 47 × 41.9cm)	29.9 × 28.5 × 43.8" (75.9 × 72.4 × 111.3cm)	115V/60Hz 10.5A	432 lb. (196kg)	**I903CA**	8386.02
3 cu. ft. (84.9L)	18.5 × 18.5 × 16.5" (47 × 47 × 41.9cm)	29.9 × 28.5 × 43.8" (75.9 × 72.4 × 111.3cm)	230V/50Hz 5.4A	432 lb. (196kg)	**I903CV**	8396.24
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	115V/60Hz 16A	716 lb. (325kg)	**I913CA**	11,327.19
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	208-230V/60Hz 12A	716 lb. (325kg)	**I913CD**	11,327.19
12.7 cu. ft. (359.6L)	18.5 × 42.5 × 28" (47 × 108 × 71.1cm)	33.4 × 72 × 40.5" (84.8 × 182.9 × 102.9cm)	230V/50Hz 12A	716 lb. (325kg)	**I913CV**	11,327.19
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	115V/60Hz 16A	821 lb. (372kg)	**I917CA**	12,594.15
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	208-230V/60Hz 12A	821 lb. (372kg)	**I917CD**	12,604.36
17 cu. ft. (481.4L)	18.5 × 58.8 × 28" (47 × 149.4 × 71.1cm)	33.8 × 87.6 × 40.5" (85.9 × 222.5 × 102.9cm)	230V/50Hz 12A	821 lb. (372kg)	**I917CV**	12,604.36
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	115V/60Hz 16A	833 lb. (378kg)	**I920CA**	13,074.17
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	208-230V/60Hz 12A	833 lb. (378kg)	**I920CD**	13,080.00
20 cu. ft. (566.3L)	18.5 × 66.5 × 28" (47 × 168.9 × 71.1cm)	33.4 × 96 × 40.5" (84.8 × 243.8 × 102.9cm)	230V/50Hz 12A	833 lb. (378kg)	**I920CV**	12,849.15

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Fisher Scientific™ Isotemp™ -86°C Ultra-Low Temperature Freezers

Mid-level monitoring and alarm functions

Programmable microprocessor control provides reliable sample protection, superior performance, excellent energy efficiency and low noise levels.

- Temperature range: -86° to -50°C
- Capacities: 17.2, 20.2 and 24.4 cu.ft. (487, 572 and 691L)
- Easy-to-read, door-mounted LED with touchpad data entry

IU2386 Series

Microprocessor Control

- Continuously monitors sensors to ensure proper performance
- Key-operated main power and alarm switch
- Control setpoint in 1°C increments
- Temperature deviation or power failure triggers audible/visual alarms
- LED shows temperature deviation due to power or temperature failure
- Time Delay, Alarm Test, Alarm Reset push-button controls
- Clean Filter, Alarm Battery Low and Voltage indicators
- Voltage Buck/Boost corrects incoming line voltage
- Low Voltage Surge Protection minimizes voltage spikes
- Battery backup supplies control panel in case of power failure

Construction

- CFC-free refrigerants
- 1hp industrial-grade compressors
- Downfeed evaporator
- Washable condenser filter
- Two 1" (2.5cm) dia. access ports
- Steel cabinet with corrosion-resistant coating
- Minimum 5" (127mm) CFC-free, foamed-in-place urethane insulation
- Built-in key lock (padlock compatible)
- Outer door gasket seals with five points of sealing contact
- Inner doors are high-impact ABS plastic with recessed handles
- Stainless-steel interior shelves
- Heavy-duty 2" (5cm) locking, tandem wheel casters

ORDERING INFORMATION:
Optional factory-installed or freestanding chart recorders and CO_2/LN_2 backup systems available. Factory-installed options must be purchased at same time as freezer. Contact your Fisher Scientific Customer Service Representative for more information.

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
Meet NEMA, UL61010-1, UL471, CUL, CE, TUV, IEC60335-2-89/Climate Class T (Tropical) criteria

Capacity	Exterior D × W × H	Interior D × W × H	Mfr. No.	Cat. No.	Each
368.1L (13.0 cu. ft.)	78.7 × 84.6 × 197.6cm (32.9 × 33.3 × 77.9")	49 × 58.4 × 130.8cm (19.3 × 23 × 51.5")	IU1386A	**IU1386A**	11,327.19
368.1L (13.0 cu. ft.)	78.7 × 84.6 × 197.6cm (32.9 × 33.3 × 77.9")	49 × 58.4 × 130.8cm (19.3 × 23 × 51.5")	IU1386D	**IU1386D**	11,327.19
368.1L (13.0 cu. ft.)	78.7 × 84.6 × 197.6cm (32.9 × 33.3 × 77.9")	49 × 58.4 × 130.8cm (19.3 × 23 × 51.5")	IU1386V	**IU1386V**	11,327.19
489.9L (17.3 cu. ft.)	94 × 84.6 × 197.6cm (38.9 × 33.3 × 77.9")	64.3 × 58.4 × 130.8cm (25.3 × 23 × 51.5")	IU1786A	**IU1786A**	12,594.15
489.9L (17.3 cu. ft.)	94 × 84.6 × 197.6cm (38.9 × 33.3 × 77.9")	64.3 × 58.4 × 130.8cm (25.3 × 23 × 51.5")	IU1786D	**IU1786D**	12,594.15
489.9L (17.3 cu. ft.)	94 × 84.6 × 197.6cm (38.9 × 33.3 × 77.9")	64.3 × 58.4 × 130.8cm (25.3 × 23 × 51.5")	IU1786V	**IU1786V**	12,604.36
651.3L (23.0 cu. ft.)	94 × 84.6 × 197.6cm (38.9 × 40.8 × 77.9")	64.3 × 77.7 × 130.8cm (25.3 × 30.6 × 51.5")	IU2386A	**IU2386A**	16,536.09
651.3L (23.0 cu. ft.)	94 × 84.6 × 197.6cm (38.9 × 40.8 × 77.9")	64.3 × 77.7 × 130.8cm (25.3 × 30.6 × 51.5")	IU2386D	**IU2386D**	16,536.09
651.3L (23.0 cu. ft.)	94 × 84.6 × 197.6cm (38.9 × 40.8 × 77.9")	64.3 × 77.7 × 130.8cm (25.3 × 30.6 × 51.5")	IU2386V	**IU2386V**	16,546.30
792.8L (28.0 cu. ft.)	94 × 118.9 × 197.6cm (38.9 × 46.8 × 77.9")	68.6 × 93 × 130.8cm (27 × 36.6 × 51.5")	IU2886D	**IU2886D**	17,497.09
792.8L (28.0 cu. ft.)	94 × 118.9 × 197.6cm (38.9 × 46.8 × 77.9")	68.6 × 93 × 130.8cm (27 × 36.6 × 51.5")	IU2886V	**IU2886V**	17,507.30

LOOKING FOR RACKS AND STORAGE BOXES FOR YOUR ULTRALOW TEMPERATURE FREEZER?

Please see the Cryogenics section of this catalog.

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Prices subject to change.

Fisher Scientific™ Isotemp™ Basic -86°C Ultra-Low Temperature Freezers

Basic monitoring and alarm electronics

Programmable microprocessor control provides reliable sample protection, excellent energy efficiency and low noise levels.

- Temperature control from -86° to -50°C, adjustable in 1°C increments
- Capacities: 13, 17.3, 23 cu. ft. (368.1, 489.9, 651.3L)
- Manual defrost

Microprocessor Controls

- Continuously monitors sensors to ensure proper performance
- Easy-to-read LED mounted on door
- Touchpad data entry
- Key-operated main power and alarm switch
- Control setpoint in 1°C increments; alarm setpoints in 5°C increments
- Temperature deviation or power failure triggers audible/visual alarms
- Alarm Battery Low indicator
- Time Delay feature delays restart after power failure
- Battery backup supplies control panel in case of power failure

Construction

- Steel cabinet with corrosion-resistant coating
- CFC-free refrigerants
- 1hp industrial-grade compressors
- Downfeed evaporator
- Washable condenser filter
- Two 1" (2.5cm) dia. access ports
- Minimum 5" (127mm) CFC-free, foamed-in-place urethane insulation
- Built-in key lock (padlock compatible)
- Outer door gasket seals with five points of sealing contact
- Inner doors are high-impact ABS plastic with recessed handles
- Stainless-steel interior shelves
- Heavy-duty 2" (5cm) locking, tandem wheel casters

IE1386 Series

ORDERING INFORMATION:
Optional built-in Temperature Chart Recorder and/or LN_2/CO_2 Backup System must be specified at time of order. Contact your Fisher Scientific Customer Service Representative for more information.

WARRANTY:
Two years parts and labor plus two year compressor warranty

CERTIFICATIONS:
Meet NEMA, UL61010-1, UL471, CUL, CE, TUV, IEC60335-2-89/Climate Class T (Tropical) criteria

Capacity	Interior L × W × H	Exterior L × W × H	Shipping Weight	Electrical Requirements	Cat. No.	Each
13.0 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (78.7 × 84.6 × 197.6cm)	711 lb. (323kg)	115V/60Hz 16A	**IE1386A**	10,612.00
13.0 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (78.7 × 84.6 × 197.6cm)	711 lb. (323kg)	208-230V/60Hz 12A	**IE1386D**	10,612.00
13.0 cu. ft. (368.1L)	19.3 × 23 × 51.5" (49 × 58.4 × 130.8cm)	32.9 × 33.3 × 77.9" (78.7 × 84.6 × 197.6cm)	711 lb. (323kg)	230V/50Hz 12A	**IE1386V**	10,612.00
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	830 lb. (376kg)	115V/60Hz 16A	**IE1786A**	11,256.06
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	830 lb. (376kg)	208-230V/60Hz 12A	**IE1786D**	11,256.06
17.3 cu. ft. (489.9L)	25.3 × 23 × 51.5" (64.3 × 58.4 × 130.8cm)	38.9 × 33.3 × 77.9" (94 × 84.6 × 197.6cm)	830 lb. (376kg)	230V/50Hz 12A	**IE1786V**	11,266.28
23.0 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	900 lb. (408kg)	115V/60Hz 16A	**IE2386A**	13,554.17
23.0 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	900 lb. (408kg)	208-230V/60Hz 12A	**IE2386D**	13,554.17
23.0 cu. ft. (651.3L)	25.3 × 30.6 × 51.5" (64.3 × 77.7 × 130.8cm)	38.9 × 40.8 × 77.9" (94 × 84.6 × 197.6cm)	900 lb. (408kg)	230V/50Hz 12A	**IE2386V**	13,554.17

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Fisher Scientific™ Isotemp™ Ultralow-Temperature Undercounter Freezer

Designed for convenient storage on or under the lab bench, or stacked two high

- Temperature range: -86° to -50°C, with control in 1° increments
- Capacity: 3.6 cu. ft. (101L)
- Maximum box capacity: 60 × 2", 36 × 3", 24 × 4"
- User-programmable temperature and alarm settings
- Visual/audible high/low temperature alarms adjustable in 1°C increments
- Battery backup with indicator for monitoring in event of power loss
- Control system S.M.A.R.T software allows service to diagnose freezer issues
- Remote contacts provide connection to external user-supplied alarm monitoring system

Refrigeration System

- Two-stage sealed hermetic cascade system provides years of worry-free operation
- Environmentally friendly CFC/HCFC-free refrigerant
- Two commercially available low-noise, heavy-duty compressors for quiet in-lab operation

Construction

- Powder-coated steel exterior and stainless-steel interior for easy cleaning and increased durability
- Space-saving vacuum insulation panel technology maximizes storage capacity while minimizing footprint
- Two internal compartments with inner doors and high-efficiency seals prevent cold air loss, reduce energy consumption
- Heated vent with plunger to clear icing prevents vacuum formation, allowing door to be easily opened repeatedly
- Lock and key on outer door for added security
- Two access ports for external probes or optional CO_2/LN_2 backup system

14-278-36

ORDERING INFORMATION:
Dimensions: 32.625H × 35.5W × 22.25"D (83 × 90 × 56.6cm). Shipping weight: 256 lb. (235kg). 115V 60Hz single phase. Optional inventory boxes and racks, backup systems and voltage stabilizer available. Contact your Fisher Scientific Customer Service Representative for more information.

CERTIFICATIONS:
UL listed, CE marked

Description	Cat. No.	Each
Isotemp Undercounter ULT Freezer	**14-278-36**	11,178.58

GLOBAL COVERAGE WITH A LOCAL TOUCH

The knowledge and experience of our Customer Support Team is unmatched in the industry . . . they make it happen!

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Cryogenic Storage Chest Freezers

Designed for long-term storage of biologicals in cryogenic temperatures — without liquid nitrogen

Top-to-bottom temperature uniformity is dramatically improved when compared to LN_2 vapor. Cell viability is improved because biologically relevant, thermally driven reactions are not known to occur.

- Uniform temperature of -140°C or -150°C, safely below the -130°C glass transition temperature
- Manual defrost

Refrigeration System

- Exclusive mixed refrigerant autocascade with a single, orbital air-cooled compressor
- Downfeed evaporator
- High-capacity air-cooled condenser with dual condenser fans
- Washable condenser filter

IntrLogic™ Microprocessor Control System

- Touchpad data entry with digital display of all functions
- Key-operated main power and alarm switch for setpoint security
- Setpoints adjustable in 1°C increments
- Independent operating temperature and high/low limit alarm functions

Alarm System

- Power failure or temperature deviation triggers audible and visual warning
- Automatic Incident Monitor identifies temperature deviation beyond alarm setpoints
- Adjustable safety alarm with automatic, continuous charge battery backup
- Digital battery indicator
- Touchpad alarm test function RS-232 data port with system software
- Exterior alarm contacts for connection to remote monitoring system

Monitoring System

- Lifeguard compressor protection monitors performance and automatically adjusts to internal and external conditions
- Extreme Ambient Alert warns if room temperature can affect performance
- Voltage Boost Indicator advises of low source voltage below safe parameters and indicates voltage boost system is activated
- On-board power monitoring with digital readout of incoming line voltage
- Built-in surge suppressor
- "Clean Filter" indicator

13-986-61

Construction

- Low-profile design for easy access to inventory
- Heavy-gauge steel cabinet with high-impact powder paint finish
- Heavy-duty counterbalanced lid with integrated keyed lock and independent sublids
- Double-seal lid gaskets minimize frost buildup
- Minimum 5" (12.7cm) foamed-in-place closed-cell, CFC-free urethane insulation
- Access port, 1" (2.54cm) diameter, with cap
- Recessed heavy-duty swivel casters

ORDERING INFORMATION:
Uses standard Thermo Scientific inventory racks and fiberboard boxes, available separately.

NOTES:
208/230V model comes with P6 plug. 380V and 220/240V models require a hardwire connection.

Specifications	
Control	Microprocessor
Defrost	Manual
Refrigeration System	High-capacity, air-cooled autocascade
Refrigerant	CFC-Free
Compressor	1, with Lifeguard Protection Systems
Cabinet	Heavy-gauge steel with high-impact powder paint finish
Lids	Heavy-duty counterbalanced lid with integrated keyed lock and insulated sublids
Port(s)	One 1" (2.54cm) dia. access, with cap

Capacity	Holds	Interior D × W × H	Exterior L × W × H†	Shipping Weight	Electrical Requirements	Mfr. No.	Cat. No.	Each
6.8 cu. ft. (193L)	13,200 x 2" vials	19 × 23.5 × 26.5" (48 × 59 × 67cm)	29 × 58 × 42.75" (74 × 148 × 109cm)	825 lb. (374kg)	208/230V 60Hz 1P	ULT7150-9-D	**13-986-61**	27,136.25
10.3 cu. ft. (292L)	19,800 x 2" vials	19 × 35.25 × 26.5" (48 × 89 × 67cm)	29 × 69 × 42.75" (74 × 176 × 109cm)	1065 lb. (483kg)	208/230V 60Hz 1P	ULT10140-9-D	**13-990-21**	31,846.73
10.3 cu. ft. (292L)	19,800 x 2" vials	19 × 35.25 × 26.5" (48 × 89 × 67cm)	29 × 69 × 42.75" (74 × 176 × 109cm)	1065 lb. (483kg)	230V 50Hz 1P	ULT10140-9-V	**13-990-10**	38,716.76

†All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles and control panel protrusions.

Before You Buy **Lab Refrigerators**

Thermo SCIENTIFIC

General Information

ULTIMATE PROTECTION

- For temperature-sensitive materials such as vaccines, whole blood and reagents, look for a microprocessor-controller allowing you to precisely regulate internal temperatures.
- Directional airflow is important to ensure temperature uniformity throughout the cabinet for laboratory storage that must be protected at all shelf levels.
- When security is non-negotiable, look for models with key-operated alarms, setpoint security and lockable doors.
- Consider an optional monitoring system such as Thermo Scientific™ Smart-Vue™ wireless monitoring

OPTIMUM CAPACITIES

- What are your space limitations? Do you require an undercounter, a single-door upright or a spacious two or three door model?
- What are you storing? Will adjustable drawers be appropriate or a model with adjustable shelves?

Product Information

Thermo Scientific™ Revco™ High-Performance Lab Refrigerators

- Delivering the performance that household and commercial units can't offer
- Advanced microprocessor controlled setpoints for precise temperature regulation
- Directional airflow for uniform temperature at all shelf and drawer levels
- Choice of glass or solid doors
- Key-operated alarms and setpoint security
- Models for blood bank, pharmacy, chromatography and laboratory storage

Other Thermo Scientific™ Revco™ High-Performance Lab Refrigerators

- Blood bank models feature standard chart recorder and can store from 64 up to 770 blood bags (450mL)
- Pharmacy models feature convenient adjustable stainless-steel drawers
- Chromatography models feature two 2" access ports with insulated hinge covers and a duplex interior electrical outlet

CAPACITY	4.9 CU. FT.	11.5 CU. FT.	23.3 CU. FT.	29.2 CU. FT.	45.8 CU. FT	51.1 CU. FT	78.8 CU. FT
Solid Door Cat. No.	13-990-156	13-991-89	13-991-52	13-991-130	N/A	13-991-53	13-991-3
Glass Door Cat. No.	RGL404A	RGL1204A	RGL2304A	RGL3004A	REL4504A	RGL5004A	RGL7504A
Blood Bank Cat. No.	13-990-260	22-266-177	13-990-60	13-991-121	N/A	13-990-54	N/A
Pharmacy Cat. No.	N/A	13-991-202	13-991-200	13-991-133	N/A	13-991-204	N/A
Chromatography	N/A	N/A	22-245-957	13-991-136	13-991-142	13-990-17A	13-991-85

Refrigerators

General Purpose

Fisher Scientific™ Isotemp™ General-Purpose Series Chromatography Refrigerators

Secure storage for chromatography applications

Isotemp™ General Purpose Series chromatography refrigerators combine performance and security required for everyday chromatography applications.

- Capacities from 27 cu. ft. to 72 cu. ft.
- Range of sizes: from single-door to large capacity, three-door uprights
- Choice of painted or stainless steel interior

Performance

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Excellent temperature stability of ±3°C
- Bright digital display
- Automatic defrost

Security

- High/low temperature audio and visual alarms
- Chart recorder (optional)
- Keyed on/off switch
- Door ajar alarm (except sliding door models)

Quality

- High-quality steel exterior
- Two 2-inch access ports
- Energy-efficient, double pane, argon-filled glass doors
- Interior duplex outlet

ORDERING INFORMATION:
For 115V 60Hz. Equipped with NEMA 5-20P line cord plug; require a NEMA 5-20R receptacle.

WARRANTY:
13 months, parts and labor

COMPLIANCE:
UL listed

Isotemp General Purpose Chromatography Refrigerators, 27 cu. ft.

Capacity	Interior D × W × H	Exterior D × W × H	Recorder w/ Alarm	Door[s]/Shelves	Amperage	Weight (Shipping)	Cat. No.	Each
Stainless-steel cabinet with stainless-steel liner								
27 cu. ft.	28.5 × 27 × 61.75 in.	32 × 30 × 78 in. (Handle adds 1-3/4 in. to Depth)	No	Glass, hinged, single/4	5.8A	300 lb.	**11-670-210**	7496.09
27 cu. ft.	28.5 × 27 × 61.75 in.	32 × 30 × 78 in. (Handle adds 1-3/4 in. to Depth)	Yes	Glass, hinged, single/4	5.8A	300 lb.	**11-670-211**	8161.18
45 cu. ft.	27 × 48.6 × 61.75 in.	32 × 52 × 78 in.	No	Glass, sliding, double/8	8.8A	561 lb.	**11-670-216**	8161.18
45 cu. ft.	27 × 48.6 × 61.75 in.	32 × 52 × 78 in.	Yes	Glass, sliding, double/8	8.8A	561 lb.	**11-670-217**	8826.00
49 cu. ft.	28.5 × 48.6 × 61.75 in.	32 × 52 × 78 in. (Handle adds 1-3/4 in. to Depth)	No	Glass, hinged, double/8	8.8A	597 lb.	**11-670-220**	9040.16
49 cu. ft.	28.5 × 48.6 × 61.75 in.	32 × 52 × 78 in. (Handle adds 1-3/4 in. to Depth)	Yes	Glass, hinged, double/8	8.8A	597 lb.	**11-670-221**	9930.32
72 cu. ft.	28.5 × 72 × 61.75 in.	32 × 75 × 78 in. (Handle adds 1-3/4 in. to Depth)	No	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-224**	11,352.07
72 cu. ft.	28.5 × 72 × 61.75 in.	32 × 75 × 78 in. (Handle adds 1-3/4 in. to Depth)	Yes	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-225**	12,251.50
White painted cabinet with white liner								
27 cu. ft.	28.5 × 27 × 61.75 in.	32 × 30 × 78 in.	No	Glass, hinged, single/4	5.8A	300 lb.	**11-670-208**	5819.14
27 cu. ft.	28.5 × 27 × 61.75 in.	32 × 30 × 78 in.	Yes	Glass, hinged, single/4	5.8A	300 lb.	**11-670-209**	6944.07
38 cu. ft.	27 × 40.5 × 61.75 in.	32 × 43.5 × 78 in.	No	Glass, sliding, double/8	8.8A	524 lb.	**11-670-212**	6832.00
38 cu. ft.	27 × 40.5 × 61.75 in.	32 × 43.5 × 78 in.	Yes	Glass, sliding, double/8	8.8A	524 lb.	**11-670-213**	7721.20
45 cu. ft.	27 × 48.6 × 61.75 in.	32 × 52 × 78 in.	No	Glass, sliding, double/8	8.8A	561 lb.	**11-670-214**	7355.37
45 cu. ft.	27 × 48.6 × 61.75 in.	32 × 52 × 78 in.	Yes	Glass, sliding, double/8	8.8A	561 lb.	**11-670-215**	8265.84
49 cu. ft.	28.5 × 48.6 × 61.75 in.	32 × 52 × 78 in.	No	Glass, hinged, double/8	8.8A	597 lb.	**11-670-218**	7609.16
49 cu. ft.	28.5 × 48.6 × 61.75 in.	32 × 52 × 78 in.	Yes	Glass, hinged, double/8	8.8A	597 lb.	**11-670-219**	8488.11
72 cu. ft.	28.5 × 72 × 61.75 in.	32 × 75 × 78 in.	No	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-222**	9368.07
72 cu. ft.	28.5 × 72 × 61.75 in.	32 × 75 × 78 in.	Yes	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-223**	10,472.16

Fisher Scientific™ Isotemp™ General Purpose Series Lab Refrigerators

Reliable cold storage for general-purpose applications

Isotemp General Purpose Series refrigerators and freezers offer the dependability and safety required for your daily lab applications.

- Capacities from 12 cu. ft. to 72 cu. ft.
- Range of sizes: from single-door to large capacity, three-door uprights
- Inner cabinet storage: choice of painted or stainless steel interiors
- Available with or without chart recorders

Performance

- Refrigerator cabinet temperature range: 1 to 12°C (factory setpoint 4°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of ±3°C and cabinet uniformity of ±3°C
- High-density, fluorine-free insulation
- Automatic defrost

Security

- Keyed on/off switch
- Optional chart recorder
- High/low, visual/audio alarms
- Choice of solid or glass lockable doors
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock

Quality

- Dual-pane glass or stainless-steel doors
- High-quality steel exterior
- Choice of painted or stainless-steel interior
- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- Standard access port

ORDERING INFORMATION:
For 115V 60Hz. Equipped with NEMA 5-15P line cord plug; require NEMA 5-15R receptacle.

WARRANTY:
13 months, parts and labor

CERTIFICATIONS:
UL listed

11-670-226

Capacity	Interior D × W × H	Exterior L × W × H	Chart Recorder	Door[s]/Shelves	Electrical Requirements	Weight	Cat. No.	Each
Gray painted exterior with stainless-steel liner								
23 cu. ft.	28.5 × 24 × 61.75"	32 × × 27 × 78" (Add 1 3/4" to Depth for handle)	No	Glass door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-232**	6342.14
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78" (Add 1 3/4" to Depth for handle)	Yes	Glass door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-233**	7281.20
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78" (Add 1 3/4" to Depth for handle)	No	Solid stainless-steel door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-234**	6341.14
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78" (Add 1 3/4" to Depth for handle)	Yes	Solid stainless-steel door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-235**	7281.20
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	No	Glass door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	386 lb.	**11-670-240**	6944.07
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	Yes	Glass door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-241**	7824.00
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	No	Solid stainless-steel door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-242**	6944.07
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	Yes	Solid stainless-steel door, single/Gray – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-243**	7824.00
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	No	Sliding glass door, double/Gray – 8 Wire	115V 60Hz; 5-15P; 8.8A	561 lb.	**11-670-248**	7721.20
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Sliding glass door, double/Gray – 8 Wire	115V 60Hz; 5-15P; 8.8A	561 lb.	**11-670-249**	8601.16
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78" (Add 1 3/4" to Depth for handle)	No	Glass door, double/Gray – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-254**	8488.11
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78" (Add 1 3/4" to Depth for handle)	Yes	Glass door, double/Gray – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-255**	9368.07
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78" (Add 1 3/4" to Depth for handle)	No	Solid stainless-steel door, double/Gray – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-256**	8488.11
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78" (Add 1 3/4" to Depth for handle)	Yes	Solid stainless-steel door, double/Gray – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-257**	9368.07
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78 " (Add 1 3/4" to Depth for handle)	No	Glass door, triple/Gray – 12 Wire	115V 60Hz; 5-15P; 9.9A	730 lb.	**11-670-260**	10,800.05
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78 " (Add 1 3/4" to Depth for handle)	Yes	Glass door, triple/Gray – 12 Wire	115V 60Hz; 5-15P; 9.9A	730 lb.	**11-670-261**	11,679.02

Contd. on next page.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific Isotemp General Purpose Series Lab Refrigerators, Contd.

Capacity	Interior D × W × H	Exterior L × W × H	Chart Recorder	Door[s]/Shelves	Electrical Requirements	Weight	Cat. No.	Each
White painted exterior with white liner								
12 cu. ft.	20.75 × 21 × 45.75"	24 × 24 × 62"	No	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5A	230 lb.	**11-670-226**	4745.14
12 cu. ft.	20.75 × 21 × 45.75"	24 × 24 × 62"	Yes	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5A	230 lb.	**11-670-227**	5625.11
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	No	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-228**	5022.16
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	Yes	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-229**	5902.14
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	No	Solid stainless-steel door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-230**	4900.00
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	Yes	Solid stainless-steel door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-231**	5901.14
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	No	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	386 lb.	**11-670-236**	5512.09
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Yes	Glass door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-237**	6392.02
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	No	Solid stainless-steel door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-238**	5512.09
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Yes	Solid stainless-steel door, single/White – 4 Wire	115V 60Hz; 5-15P; 5.8A	300 lb.	**11-670-239**	6392.02
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	No	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	524 lb.	**11-670-244**	6291.45
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Yes	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	524 lb.	**11-670-245**	7169.18
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	No	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	561 lb.	**11-670-246**	6832.00
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Sliding glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	561 lb.	**11-670-247**	7721.20
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	No	Glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-250**	7169.18
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Glass door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-251**	8049.11
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	No	Solid stainless-steel door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-252**	7169.18
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Yes	Solid stainless-steel door, double/White – 8 Wire	115V 60Hz; 5-15P; 8.8A	597 lb.	**11-670-253**	8049.11
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	No	Glass door, triple/White – 12 Wire	115V 60Hz; 5-15P; 9.9A	730 lb.	**11-670-258**	9040.16
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Yes	Glass door, triple/White – 12 Wire	115V 60Hz; 5-15P; 9.9A	730 lb.	**11-670-259**	9920.09

Fisher Scientific™ Isotemp™ General-Purpose Refrigerator

For safe, reliable storage

- Thermostat control of temperatures ranging from 1° to 8°C with ±3° stability
- Capacity, 17 cu. ft. (481L) automatic defrost
- CFC-free (R404A) refrigerant, polyurethane insulation
- White enamel-coated steel cabinet, white epoxy powder-coated steel interior
- Solid door has hinge mechanism that holds door open at 95° angle, closes with a gentle push
- Four adjustable legs ensure cabinet is level on irregular floors
- Five fixed white epoxy-coated steel-wire shelves resist most acids, solvents and chemicals; provide 13.5 sq. ft. of shelving

ORDERING INFORMATION:
Interior (D × W × H): 18 × 27 × 52" (46 × 69 × 132cm).
Exterior (L × W × H): 29 × 32 × 65"
(74 × 81 × 165cm). Net weight: 200 lb. (91kg).
Shipping weight: 230 lb. (105kg). Equipped with NEMA 5-15P line cord plug; requires NEMA 5-15R receptacle. For 115V 60Hz.

WARRANTY:
13 months, parts and labor

CERTIFICATIONS:
UL listed, CSA approved

13-986-151B

Cat. No.	Each
13-986-151B	3508.89

Fisher Scientific™ Isotemp™ General-Purpose Undercounter Refrigerator

High performance in compact footprint

Limited space doesn't mean you need to sacrifice performance. Isotemp general purpose undercounter laboratory refrigerators are built with high-quality components and controls. This allows scientists and technicians to keep critical samples close to their workspace — without the worry of temperature variations found in lower-quality domestic units.

- Excellent temperature stability (<3°C, ensuring no region of the cabinet can reach zero degrees/freezing)
- Temperature range of 2° to 10°C, preset to 4°C
- Low energy consumption
- Low heat rejection
- Low noise levels
- Non-invasive, auto-defrost mechanism
- Positive locking door latch
- Standard 1" (25mm) access port
- Hospital-grade plug
- Digital temperature display
- Designed to meet JCAHO guidelines
- Stainless-steel interior
- Robust refrigeration system
- UL-certified
- Compatible with Pyxis adapters and wireless remote monitoring solutions

13-986-050

Capacity	Interior D × W × H	Exterior L × W × H	No. of Doors	No. of Shelves	Shipping Weight	Cat. No.	Each
5.4 cu. ft. (153L)	21.5 × 19.4 × 20.4" (54.6 × 49.2 × 51.8cm)	27.5 × 24 × 34.6" (69.8 x 61 × 87.8cm)	1 Solid	2 Adjustable	210 lb. (95kg)	**13-986-050**	2640.00

Thermo Scientific™ GP Series Lab Refrigerators

Dependability and safety for daily lab applications

Performance

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of ±3°C
- High-density, fluorine free insulation
- Automatic defrost

Security

- Keyed on/off switch
- Optional chart recorder
- High/Low Temperature, Visual/Audio alarms
- Choice of solid or glass lockable doors (refrigerators only)
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock

Quality

- Painted, high-quality steel exterior
- Choice of painted or stainless steel interior (refrigerators only)

- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- 1" rear access port; Certifications: UL listed

ORDERING INFORMATION: For 115V 60Hz. Equipped with NEMA 5-15P line cord plug; require NEMA 5-15R receptacle.

WARRANTY: Two years (parts and labor)

CERTIFICATIONS: UL listed

Specifications	
Style	Upright
Temperature Range	1° to 12°C
Refrigerant	R-134a
Condenser Type	Fin and Tube
Defrost	Automatic
Exterior Finish	White enamel-coated steel
Interior Finish	White epoxy, powder-coated steel; stainless-steel floor
Casters	2" dia. stem mount
Insulation	CFC-free foamed-in polyurethane
Plug Type	NEMA 5-15
Electrical Requirements	115V/60Hz

Capacity	Interior D × W × H	Exterior L × W × H	Monitoring Options	Door[s]/Shelves	Amperage	Mfr. No.	Cat. No.	Each
Gray painted exterior with stainless-steel liner								
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Glass door, single/Gray – 4 Wire	5.8A	MR25SS-GAEE-TS	**11-670-307**	6852.20
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78" (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Glass door, single/Gray – 4 Wire	5.8A	MR25SS-GARE-TS	**11-670-308**	7864.25
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78 (Add 1 3/4" to Depth for handle)"	Alarms Only	Solid stainless-steel door, single/Gray – 4 Wire	5.8A	MR25SS-SAEE-TS	**11-670-309**	6852.20
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, single/Gray – 4 Wire	5.8A	MR25SS-SARE-TS	**11-670-310**	7854.02
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78" (Add 1 3/4" to Depth for handle)	Alarms Only	Glass door, single/Gray – 4 Wire	5.8A	MR30SS-GAEE-TS	**11-670-315**	7496.00
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Glass door, single/Gray – 4 Wire	5.8A	MR30SS-GARE-TS	**11-670-316**	8468.43
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Solid stainless-steel door, single/Gray – 4 Wire	5.8A	MR30SS-SAEE-TS	**11-670-317**	7496.00
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 (Add 1 3/4" to Depth for handle)"	Alarms and Recorder	Solid stainless-steel door, single/Gray – 4 Wire	5.8A	MR30SS-SARE-TS	**11-670-318**	8468.43
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms Only	Sliding glass door, double/ Gray – 8 Wire	8.8A	MR45SS-GAEE-TS	**11-670-323**	8345.36
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms and Recorder	Sliding glass door, double/ Gray – 8 Wire	8.8A	MR45SS-GARE-TS	**13-991-893**	9282.00
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Glass door, double/Gray – 8 Wire	8.8A	MR49SS-GAEE-TS	**11-670-329**	9163.02
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78" (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Glass door, double/Gray – 8 Wire	8.8A	MR49SS-GARE-TS	**11-670-330**	10,134.45
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78" (Add 1 3/4" to Depth for handle)	Alarms Only	Solid stainless-steel door, double/Gray – 8 Wire	8.8A	MR49SS-SAEE-TS	**11-670-331**	9163.02
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, double/Gray – 8 Wire	8.8A	MR49SS-SARE-TS	**11-670-332**	10,114.00
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Glass door, triple/Gray – 12 Wire	9.9A	MR72SS-GAEE-TS	**11-670-335**	11,669.18
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Glass door, triple/Gray – 12 Wire	9.9A	MR72SS-GARE-TS	**11-670-336**	12,620.16
White painted exterior with white liner								
12 cu. ft.	20.75 × 21 × 45.75"	24 × 24 × 72"	Alarms Only	Glass door, single/White – 4 Wire	5A	MR12PA-GAEE-TS	**11-670-301**	5124.16
12 cu. ft.	20.75 × 21 × 45.75"	24 × 24 × 72"	Alarms and Recorder	Glass door, single/White – 4 Wire	5A	MR12PA-GARE-TS	**11-670-302**	6085.36

Contd. on next page.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ GP Series Lab Refrigerators, Contd.

Capacity	Interior D × W × H	Exterior L × W × H	Monitoring Options	Door[s]/Shelves	Amperage	Mfr. No.	Cat. No.	Each
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	Alarms Only	Glass door, single/White – 4 Wire	5.8A	MR25PA-GAEE-TS	**11-670-303**	5420.11
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78"	Alarms and Recorder	Glass door, single/White – 4 Wire	5.8A	MR25PA-GARE-TS	**11-670-304**	6381.34
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Solid stainless-steel door, single/White – 4 Wire	5.8A	MR25PA-SAEE-TS	**11-670-305**	5420.11
23 cu. ft.	28.5 × 24 × 61.75"	32 × 27 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, single/White – 4 Wire	5.8A	MR25PA-SARE-TS	**11-670-306**	6371.11
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Alarms Only	Glass door, single/White – 4 Wire	5.8A	MR30PA-GAEE-TS	**11-670-311**	5952.07
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Alarms and Recorder	Glass door, single/White – 4 Wire	5.8A	MR30PA-GARE-TS	**11-670-312**	6913.27
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Solid stainless-steel door, single/White – 4 Wire	5.8A	MR30PA-SAEE-TS	**11-670-313**	5962.29
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, single/White – 4 Wire	5.8A	MR30PA-SARE-TS	**11-670-314**	6913.27
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Alarms Only	Sliding glass door, double/ White – 8 Wire	8.8A	MR38PA-GAEE-TS	**11-670-319**	6791.20
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Alarms and Recorder	Sliding glass door, double/ White – 8 Wire	8.8A	MR38PA-GARE-TS	**11-670-320**	7752.41
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms Only	Sliding glass door, double/ White – 8 Wire	8.8A	MR45PA-GAEE-TS	**11-670-321**	7384.16
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms and Recorder	Sliding glass door, double/ White – 8 Wire	8.8A	MR45PA-GARE-TS	**11-670-322**	8335.14
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Alarms and Recorder	Glass door, double/White – 8 Wire	8.8A	MR49PA-GARE-TS	**13-991-894**	8705.73
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78 " (Add 1 3/4" to Depth for handle)	Alarms Only	Solid stainless-steel door, double/White – 8 Wire	8.8A	MR49PA-SAEE-TS	**13-991-896**	7744.11
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78 " (Add 1 3/4" to Depth for handle)	Alarms and Recorder	Solid stainless-steel door, double/White – 8 Wire	8.8A	MR49PA-SARE-TS	**13-991-895**	8705.73
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Alarms Only	Glass door, double/White – 8 Wire	8.8A	MR49PA-GAEE-TS	**11-670-325**	7742.18
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Alarms Only	Glass door, triple/White – 12 Wire	9.9A	MR72PA-GAEE-TS	**11-670-333**	9767.20
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Alarms and Recorder	Glass door, triple/White – 12 Wire	9.9A	MR72PA-GARE-TS	**11-670-334**	10,718.18

Thermo Scientific™ Value Lab Refrigerators

An economical solution for safe, sample storage. Not available outside North America.

- Adjustable shelves or baskets included
- CFC-free insulation and coolant
- Manual defrost
- Factory tested prior to shipment
- NRTL tested
- Environmentally-friendly, non CFC refrigerants
- Adjustable temperature control
- Easy-to-clean, durable finish
- Manual defrost

CERTIFICATIONS:
CSA and UL

Specifications	
Defrost	Manual
Refrigerant	CFC-free R-134a

ALERTS:
These units are intended for basic laboratory use only. Storage of high-value, life science materials or clinical biologicals may require alarm, monitoring, back-up and temperature performance features. The need to add these features should be determined by your industrial hygienist or safety officer. These units are not suitable for corrosive environments.

13-989-19

Capacity	Temperature Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
1.8 cu. ft. (51L)	1° to 12°C	115V 60Hz	3756	**14-512-520**	906.97
5.6 cu. ft. (158.6L)	1° to 12°C	115V 60Hz	3751	**13-989-19**	2127.27
6 cu. ft. (169.9L)	1° to 12°C	115V 60Hz	3754	**14-512-526**	2038.84

Thermo Scientific™ General-Purpose Undercounter Refrigerator

Optimal reliability and security

Thermo Scientific general-purpose undercounter lab refrigerators are built with the same high-quality components and controls as our larger units. This allows scientists and technicians to keep critical samples close to their workspace — without the worry of temperature variations found in lower quality domestic units.

- Excellent temperature stability (<3°C ensuring no region of the cabinet can reach zero degrees/freezing)
- Low energy consumption
- Low heat rejection
- Low noise levels
- Non-invasive, auto defrost mechanism
- Positive locking door latch
- Standard one inch (25mm) access port
- Hospital grade plugs
- Stainless-steel interior
- Temperature range of 2° to 10°C, preset to 4°C
- Digital temperature display
- Designed to meet JCAHO guidelines
- Aluminum interior
- Robust refrigeration system
- UL certified
- Compatible with Pyxis adapters and remote wireless monitoring solutions

CERTIFICATIONS: UL

13-986-051

Capacity	Internal D × W × H	External L × W × H	No. of Doors	No. of Shelves	Shipping Weight	Mfr. No.	Cat. No.	Each
5.4 cu. ft. (153 liters)	21.5 × 19.4 × 20.4 in. (54.6 × 49.2 × 51.8 cm)	24.1 × 24 × 34.7" (61.3 × 61 × 87.6 cm)	1 solid	2 adjustable	210 lbs. (95 kg.)	MR05PA-SEEE-TS	**13-986-051**	2797.91

Thermo Scientific™ Revco™ High-Performance Laboratory Refrigerators with Glass Doors

Cabinet sizes to fit your space and storage needs

Revco high-performance lab refrigerators with glass doors are available in a wide range of cabinet sizes to fit virtually any application need. Each refrigerator comes with an advanced microprocessor temperature control, high-quality cabinet construction and advanced alarm systems. Postive, forced-air circulation maintains temperature uniformity, protecting your valuable samples and inventory.

- Adjustable temperatures between 1° and 8°C (factory preset at 4°C)
- Automatic defrost and condensate removal

Microprocessor Control

- Digital electronic technology designed to simplify operation and deliver greater accuracy
- Icon-based controls
- Large, easy-to-read digital display of temperature within 0.1°C
- Graphic thermometer is steady green when temperature is normal, flashes top bar for overtemperature, flashes bulb for undertemperature
- Sensor automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost buildup and optimizing coil efficiency

Alarm System

- Audible/visual warnings for temperature deviations or power failure
- Key-operated ON/OFF/ALARM ON master switch for setpoint security
- Push-button alarm test and remote alarm contacts
- Alarm silence, ringback and auto reset
- Controller battery backup system
- Alarm setpoints are preset to warn of temperature deviation at 5.5°C overtemperature and 1.5°C undertemperature

Construction

- Positive forced-air circulation systems
- Industrial-grade cabinet construction and compressors
- High-density CFC-free urethane foam insulation
- Self-closing, key-locked doors
- Epoxy-coated, open-wire shelves adjustable in 1" (2.5cm) increments
- Cold-rolled steel interior and exterior finished with high-impact powder paint coating
- Interior lights with door-activated ON/OFF switch, independent switch on control panel, adjustable leveling feet (except 4.9 cu. ft. undercounter model)
- 45.8 cu. ft. (1297L) units have double sliding glass doors, base-mounted controls and refrigeration systems, independent switch-activated lights and dual-wheel 2" (5cm) casters instead of leveling feet
- Undercounter model has a 1" (2.5cm) dia. access port with plug

RGL2304

ORDERING INFORMATION:
Alarm systems, temperature chart recorders and power monitors are available separately. Other voltages are available; contact your Customer Service Representative for more information.

WARRANTY:
Two years, parts and labor, US and Canada only

COMPLIANCE:
UL and cUL listed. TUV approved. CE marked.

Contd. on the next page.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Revco™ High-Performance Laboratory Refrigerators, Contd.

Capacity	No. of Doors	Interior D × W × H	Exterior L × W × H	Electrical Requirements; Plug Type	Shipping Weight	Mfr. No.	Cat. No.	Each
Undercounter								
4.9 cu. ft. (133L)	1 Glass; 3	20.5 × 20 × 20" (52.1 × 50.8 × 50.8cm)	26 × 24 × 33.4" (66 × 61 × 84.8cm)	115V 60Hz; 5-15P	200 lb. (91kg)	RGL404A	**RGL404A**	5304.11
4.9 cu. ft. (139L)	1 Glass; 3	20.5 × 20 × 20" (52.1 × 50.8 × 50.8cm)	26 × 24 × 33.4" (66 × 61 × 84.8cm)	208/230V 60Hz; 6-15P	200 lb. (91kg)	RGL404D	**RGL404D**	5314.33
Spacesaver								
11.5 cu. ft. (326L)	1 Glass; 4	21.75 × 20 × 52.4" (55.3 × 50.8 × 133.1cm)	29.4 × 24 × 73.6" (74.8 × 61 × 186.9cm)	115V 60Hz; 5-15P	280 lb. (127kg)	RGL1204A	**RGL1204A**	5754.00
11.5 cu. ft. (326L)	1 Glass; 4	21.75 × 20 × 52.4" (55.3 × 50.8 × 133.1cm)	29.4 × 24 × 73.6" (74.8 × 61 × 186.9cm)	208/230V 60Hz; 6-15P	280 lb. (127kg)	RGL1204D	**RGL1204D**	5774.44
Upright								
23.3 cu. ft. (659L)	1 Glass; 4	29 × 24 × 58" (73.7 × 61 × 147.3cm)	36.4 × 28 × 79.2" (92.5 × 71.1 × 201.2cm)	115V 60Hz; 5-15P	370 lb. (168kg)	RGL2304A	**RGL2304A**	6387.13
23.3 cu. ft. (659L)	1 Glass; 4	29 × 24 × 58" (73.7 × 61 × 147.3cm)	36.4 × 28 × 79.2" (92.5 × 71 × 201.2cm)	208/230V 60Hz; 6-15P	370 lb. (168kg)	RGL2304D	**RGL2304D**	6397.34
29.2 cu. ft. (826L)	1 Glass; 4	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	36.4 × 34 × 79.2" (92.5 × 86.4 × 201.2cm)	115V 60Hz; 5-15P	435 lb. (197kg)	RGL3004A	**RGL3004A**	7379.28
29.2 cu. ft. (826L)	1 Glass; 4	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	36.4 × 34 × 79.2" (92.5 × 86.4 × 201.2cm)	208/230V 60Hz; 6-15P	435 lb. (197kg)	RGL3004D	**RGL3004D**	7379.28
45.8 cu. ft. (1297L)	2 Sliding glass; 8	26 × 52.5 × 58" (66 × 133.4 × 147.3cm)	34.5 × 56.5 × 79.1" (87.6 × 143.5 × 200.9cm)	115V 60Hz; 5-20P	670 lb. (304kg)	REL4504A	**13-991-139**	8441.29
45.8 cu. ft. (1297L)	2 Sliding glass; 8	26 × 52.5 × 58" (66 × 133.4 × 147.3cm)	34.5 × 56.5 × 79.1" (87.6 × 143.5 × 200.9cm)	208/230V 60Hz; 6-15P	670 lb. (304kg)	REL4504D	**13-991-140**	8441.29
51.1 cu. ft. (1447L)	2 Glass; 8	29 × 52.5 × 58" (73.7 × 133.4 × 147.3cm)	36.4 × 56.5 × 79.2" (92.5 × 143.5 × 201.2cm)	115V 60Hz; 5-20P	585 lb. (265kg)	RGL5004A	**RGL5004A**	9576.03
51.1 cu. ft. (1447L)	2 Glass; 8	29 × 52.5 × 58" (73.7 × 133.4 × 147.3cm)	36.4 × 56.5 × 79.2" (92.5 × 143.5 × 201.2cm)	208/230V 60Hz; 6-15P	585 lb. (265kg)	RGL5004D	**RGL5004D**	9596.47
78.8 cu. ft. (2231L)	3 Glass; 12	29 × 81 × 58" (73.7 × 205.7 × 147.3cm)	37.2 × 85 × 79.2" (94.5 × 215.9 × 201.2cm)	115V 60Hz; 5-20P	805 lb. (365kg)	RGL7504A	**RGL7504A**	13,367.40
78.8 cu. ft. (2231L)	3 Glass; 12	29 × 81 × 58" (73.7 × 205.7 × 147.3cm)	37.2 × 85 × 79.2" (94.5 × 215.9 × 201.2cm)	208/230V 60Hz; 6-15P	805 lb. (365kg)	RGL7504D	**RGL7504D**	12,212.57

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when. We'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

LOOKING FOR FREEZER RACKS...?

Fisher Scientific offers a broad assortment of vials, racks, and storage systems. Please refer to the Cryogenics section of this catalog.

Thermo Scientific™ Revco™ High-Performance Laboratory Refrigerators with Solid Doors

Cabinet sizes to fit your space and storage needs

- Adjustable temperatures between 1° and 8°C (factory preset at 4°C)
- Automatic defrost and condensate removal

Microprocessor Control

- Digital electronic technology designed to simplify operation and deliver greater accuracy
- Icon-based controls
- Large, easy-to-read digital display of temperature within 0.1°C
- Graphic thermometer is steady green when temperature is normal, flashes top bar for overtemperature, flashes bulb for undertemperature
- Sensor automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost buildup and optimizing coil efficiency

Alarm System

- Audible/visual warnings for temperature deviations or power failure
- Key-operated ON/OFF/ALARM ON master switch for setpoint security
- Push-button alarm test and remote alarm contacts
- Alarm silence, ringback and auto reset
- Controller battery backup system
- Alarm setpoints are preset to warn of temperature deviation at 5.5°C overtemperature and 1.5°C undertemperature

Construction

- Positive forced-air circulation systems
- Industrial-grade cabinet construction and compressors
- High-density CFC-free urethane foam insulation
- Self-closing, key-locked doors
- Epoxy-coated, open-wire shelves adjustable in 1" (2.5cm) increments
- Cold-rolled steel interior and exterior finished with high-impact powder paint coating
- Interior lights with door-activated ON/OFF switch, independent switch on control panel, adjustable leveling feet (except 4.9 cu. ft. undercounter model)
- Undercounter model has a 1" (2.5cm) dia. access port with plug

Revco High-Performance Lab Refrigerators

ORDERING INFORMATION:
Alarm systems, temperature chart recorders and power monitors are available separately. Other voltages are available; contact your Customer Service Representative for more information.

WARRANTY:
Two years, parts and labor, US and Canada only

COMPLIANCE:
UL and cUL listed. TUV approved. CE marked.

Specifications	
Temperature Range	1° to 8°C
Temperature Control	Microprocessor
Display	Digital
Temperature Resolution	1°C
Defrost	Automatic
Refrigerant	CFC- and HCFC-free R134A
Cabinet	Scratch-resistant painted
Chamber	Scratch-resistant painted
Insulation	High-density CFC-free urethane foam

Capacity	No. of Doors/Shelves	Interior D × W × H	Exterior L × W × H	Shipping Weight	Electrical Requirements	Cat. No.	Each
Undercounter							
4.9 cu. ft. (133L)	1 Solid/3	20 × 20 × 20" (50.8 × 50.8 × 50.8cm)	28.9 × 24 × 34" (73.4 × 61 × 86.4cm)	212 lb. (96kg)	115V 60Hz	**13-990-156**	5048.47
Space Saver							
11.5 cu. ft. (326L)	1 Solid/4	21 × 20 × 52.4" (53.3 × 50.8 × 133.1cm)	30 × 24 × 73.6" (76.2 × 61 × 186.9cm)	280 lb. (127kg)	115V 60Hz	**13-991-89**	5345.40
					208/230V 60Hz	**14-259-230**	5345.40
Upright							
23.3 cu. ft. (659L)	1 Solid/4	29 × 24 × 58" (73.7 × 61 × 147.3cm)	37.2 × 28 × 79.2" (94.5 × 71.1 × 201.2cm)	425 lb. (193kg)	115V 60Hz	**13-991-52**	6121.92
					208/230V 60Hz	**13-991-1**	5856.20
29.2 cu. ft. (826L)	1 Solid/4	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	37.2 × 34 × 79.2" (94.5 × 86.4 × 201.2cm)	435 lb. (197kg)	115V 60Hz	**13-991-130**	6765.86
					208/230V 60Hz	**13-991-131**	6765.86
51.1 cu. ft. (1447L)	2 Solid/8	29 × 52.5 × 58" (73.7 × 133.4 × 147.3cm)	37.2 × 56.5 × 79.2" (94.5 × 143.5 × 201.2cm)	585 lb. (265kg)	115V 60Hz	**13-991-53**	8758.79
					208/230V 60Hz	**13-991-2**	8738.35
78.8 cu. ft. (2231L)	3 Solid/12	29 × 81 × 58" (73.7 × 205.7 × 147.3cm)	37.2 × 85 × 79.2" (94.5 × 215.9 × 201.2cm)	805 lb. (365kg)	115V 60Hz	**13-991-3**	11,139.46
					208/230V 60Hz	**13-991-4**	11,139.46

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Special Purpose

Fisher Scientific™ Isotemp™ Explosion-Proof Refrigerator

Ideal for storing volatile materials in areas with explosive atmospheres or in hazardous locations

- Adjustable temperature between 2° and 10°C
- Allows setpoint adjustment while running
- Average temperature stability of ±3°C
- Capacity: 20.6 cu. ft. (583L)
- Manual defrost

Safety Features

- Red warning label on front that reads "Explosion-Proof Refrigerator"
- Compressor with enclosed overload and relay
- Top-mounted, explosion-proof hydraulic thermostat
- Static hot-wall condenser and evaporator free of electric fans

Construction

- White, baked-on polyester enamel exterior
- One hinged solid door with key lock
- White epoxy-coated steel interior with ABS plastic door liner
- CFC-free polyurethane foam insulation and R404A refrigerant
- Four shelves providing 13.5 sq. ft. of storage space

ORDERING INFORMATION:
Exterior dimensions: 31L × 32W × 76"H (79 × 81 × 193cm) (allow 3" clearance top, back and sides). Interior dimensions: 22.5D × 27W × 57"H (57 × 69 × 145cm). Net weight, 200 lb. (91kg). For 115V 60Hz. Not equipped with line cord and plug; must be hardwired into an appropriately rated conduit box.

WARRANTY:
13 months, parts and labor

CERTIFICATIONS:
UL listed, CSA approved.

13-986-153

Cat. No.	Each
13-986-153	4900.17

Fisher Scientific™ Isotemp™ Flammable-Materials Storage Refrigerators

For reliable, safe storage of volatile materials, pharmaceuticals, clinical reagents and biological samples

- Adjustable temperatures from 1° to 10°C, depending on model
- Capacities: 20.6 and 50 cu. ft. (583 and 1420L)
- 50 cu. ft. (1420L) model features digital temperature display in 0.1° increments, °C or °F and keyed power switches
- Manual defrost

Safety Features

- Orange warning label on front
- Sparkproof interiors separate contents from compressor and motor
- Compressors have enclosed overloads, relays and thermostats that prevent sparks from escaping during door opening and closing
- Static hot-wall condensers and evaporators are free of electric fans
- Magnetic door gaskets provide airtight seals that insulate and prevent release of hazardous fumes
- Top-mounted hydraulic thermostat and door stop

Construction

- White, baked-on polyester enamel exteriors CFC-free polyurethane foam insulation and refrigerant
- Solid door(s) with key lock
- White epoxy-coated steel interiors with ABS plastic door liner
- Alarms (50 cu. ft. model only)
- Panel-mounted, factory installed
- Digital display with minimum/maximum setpoints, audible alarm and 24V, 0.5A SPST N.O. relay contacts
- Freestanding (13-986-160), Standard Remote (13-986-32A) and Deluxe Remote (13-986-100) alarm systems available separately
- Seven-day Selectable Temperature Recorder (50 cu. ft. model only)
- Panel-mounted, factory installed
- 6" dia. (15.2cm) chart
- User-selectable temperature ranges
- Single-point calibration; individually calibrated against equipment with calibration certified traceable to NIST™
- Supplied with 60 charts and 7-day scale

13-986-428RR

ORDERING INFORMATION: For 115V 60Hz. Equipped with NEMA 5-15P power cord; require NEMA 5-15R wall receptacle.

WARRANTY: 13 months, parts and labor

COMPLIANCE: NFPA Code 99 (50 cu.ft. model only)

CERTIFICATIONS: UL listed, CSA approved.

Model	Temperature Range/Stability	Interior D × W × H	No. of Shelves	Exterior L × W × H†	Net Weight‡	Amps/ Breaker	Cat. No.	Each
20.6 cu. ft. (583L), 1 hinged solid door								
Basic	2° to 10°C/±3°	16.5 × 27 × 55" (57 × 69 × 145cm)	4 fixed	31.75 × 32 × 74.5" (76 × 81 × 185cm)	200 lb. (91kg)	12/15	**13-986-152**	4163.61
50 cu. ft. (1420L), 2 hinged solid doors								
Basic	1° to 8°C (34° to 46°F)/±4°	26.5 × 45.75 × 59" (80 × 122 × 151cm)	8 adjustable	34.25 × 52 × 77.25" (90 × 132 × 212cm)††	390 lb. (177kg)	10/15	**13-986-450R**	8529.59
With Recorder							**13-986-450RR**	10,280.00
With Recorder/Alarm							**13-986-450RA**	10,600.00

† Allow 3" (7.6cm) clearance top, back and sides. Add 3" (7.6cm) to height of models with Recorders and Recorder/Alarms.
‡ Add 5 lb. (2kg) to model with Recorders or Recorder/Alarms.
†† With legs.

Fisher Scientific™ Isotemp™ General-Purpose Series Chromatography Refrigerators

Secure storage for chromatography applications

Isotemp General Purpose Series chromatography refrigerators combine performance and security required for everyday chromatography applications.

- Capacities from 27 cu. ft. to 72 cu. ft.
- Range of sizes: from single-door to large capacity, three-door uprights
- Choice of painted or stainless steel interior

Performance

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Excellent temperature stability of ±3°C
- Bright digital display
- Automatic defrost

Security

- High/low temperature audio and visual alarms
- Chart recorder (optional)
- Keyed on/off switch
- Door ajar alarm (except sliding door models)

Quality

- High-quality steel exterior
- Two 2" access ports
- Energy-efficient, double pane, argon-filled glass doors
- Interior duplex outlet

ORDERING INFORMATION:
For 115V 60Hz. Equipped with NEMA 5-20P line cord plug; require a NEMA 5-20R receptacle.

WARRANTY:
13 months, parts and labor

COMPLIANCE: UL listed

Isotemp General Purpose Chromatography Refrigerators, 27 cu. ft.

Capacity	Interior D × W × H	Exterior D × W × H	Recorder w/Alarm	Door[s]/Shelves	Amperage	Weight (Shipping)	Cat. No.	Each
Stainless-steel cabinet with stainless-steel liner								
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78" (Handle adds 1-3/4" to Depth)	No	Glass, hinged, single/4	5.8A	300 lb.	**11-670-210**	7496.09
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78" (Handle adds 1-3/4" to Depth)	Yes	Glass, hinged, single/4	5.8A	300 lb.	**11-670-211**	8161.18
45 cu. ft.	27 × 48.6 × 61.75"	32 × 52 × 78"	No	Glass, sliding, double/8	8.8A	561 lb.	**11-670-216**	8161.18
45 cu. ft.	27 × 48.6 × 61.75"	32 × 52 × 78"	Yes	Glass, sliding, double/8	8.8A	561 lb.	**11-670-217**	8826.00
49 cu. ft.	28.5 × 48.6 × 61.75"	32 × 52 × 78" (Handle adds 1-3/4" to Depth)	No	Glass, hinged, double/8	8.8A	597 lb.	**11-670-220**	9040.16
49 cu. ft.	28.5 × 48.6 × 61.75"	32 × 52 × 78" (Handle adds 1-3/4" to Depth)	Yes	Glass, hinged, double/8	8.8A	597 lb.	**11-670-221**	9930.32
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78" (Handle adds 1-3/4" to Depth)	No	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-224**	11,352.07
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78" (Handle adds 1-3/4" to Depth)	Yes	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-225**	12,251.50
White painted cabinet with white liner								
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	No	Glass, hinged, single/4	5.8A	300 lb.	**11-670-208**	5819.14
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Yes	Glass, hinged, single/4	5.8A	300 lb.	**11-670-209**	6944.07
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	No	Glass, sliding, double/8	8.8A	524 lb.	**11-670-212**	6832.00
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Yes	Glass, sliding, double/8	8.8A	524 lb.	**11-670-213**	7721.20
45 cu. ft.	27 × 48.6 × 61.75"	32 × 52 × 78"	No	Glass, sliding, double/8	8.8A	561 lb.	**11-670-214**	7355.37
45 cu. ft.	27 × 48.6 × 61.75"	32 × 52 × 78"	Yes	Glass, sliding, double/8	8.8A	561 lb.	**11-670-215**	8265.84
49 cu. ft.	28.5 × 48.6 × 61.75"	32 × 52 × 78"	No	Glass, hinged, double/8	8.8A	597 lb.	**11-670-218**	7609.16
49 cu. ft.	28.5 × 48.6 × 61.75"	32 × 52 × 78"	Yes	Glass, hinged, double/8	8.8A	597 lb.	**11-670-219**	8488.11
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	No	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-222**	9368.07
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Yes	Glass, hinged, triple/12	9.9A	730 lb.	**11-670-223**	10,472.16

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ Isotemp™ General-Purpose Series Chromatography Refrigerator Packages

Secure storage for chromatography applications

Isotemp General Purpose Series chromatography refrigerators combine performance and security required for everyday chromatography applications.

Performance

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Excellent temperature stability of ±3°C
- Bright digital display
- Automatic defrost

Available in 38 cu. ft. and 45 cu. ft.

- With two sliding glass doors and eight shelves
- White exterior and liner

Security

- High/low temperature audio and visual alarms
- Chart recorder (optional)
- Keyed on/off switch
- Door ajar alarm (except sliding door models)

Quality

- High-quality steel exterior
- Two 2" access ports
- Energy-efficient, double pane, argon-filled glass doors
- Interior duplex outlet

ORDERING INFORMATION:
For 115V 60Hz. Equipped with NEMA 5-20P line cord plug; require a NEMA 5-20R receptacle.

WARRANTY:
13 months, parts and labor

COMPLIANCE:
UL listed.

Isotemp General Purpose Chromatography Refrigerators

Package Details	Mfr. No.	Cat. No.	Each
With Recorder			
38 cu. ft.; With Undercounter Freezer 979261	MH38PAGARF	**MH38PAGARF**	7712.00
38 cu. ft.; With Undercounter Refrigerator 979381	MH38PAGARR	**MH38PAGARR**	7712.00
Without Recorder			
38 cu. ft.; With Undercounter Freezer 979261	MH38PAGAEF	**MH38PAGAEF**	7142.47
38 cu. ft.; With Undercounter Refrigerator 979381	MH38PAGAER	**MH38PAGAER**	7142.47
45 cu. ft.; With Undercounter Freezer 979261	MH45PAGAEF	**MH45PAGAEF**	7272.00
45 cu. ft.; With Undercounter Refrigerator 979381	MH45PAGAER	**MH45PAGAER**	7272.00

LOOKING FOR REFRIGERATOR AND FREEZER SHELVES?

Fisher Scientific offers a broad assortment of refrigerator and freezer shelves for the Isotemp™ product line.

Visit www.fishersci.com and search for Isotemp Freezer Shelves

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Thermo Scientific™ Revco™ High-Performance Chromatography Refrigerators

Designed for applications requiring close temperature control

Revco High-Performance Chromatography Refrigerators

Two 2" dia. (5.1cm) access ports with hinged covers allow full access to chromatography instrumentation and easy setup of instrumentation and apparatus within the chamber.

- Adjustable temperatures between 1° and 8°C, factory-preset setpoint at 4°C
- Positive forced-air circulation maintains temperature uniformity at all shelf levels
- Peripheral closed-cell door gaskets maintain temperature integrity
- Automatic condensate removal and defrost

Microprocessor Control

- Digital electronic technology designed to simplify operation and deliver greater accuracy
- Instrumentation and controls mounted at cabinet bottom on 45.8 cu. ft. models, top on other models
- Icon-based controls
- Large, easy-to-read digital display that shows temperature within 0.1°C
- Graphic thermometer is steady green when temperature is normal, flashes top bar for overtemperature, flashes bulb for undertemperature
- Sensor automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost buildup and optimizing coil efficiency
- Audible/visual warnings for temperature deviations or power failure
- Key-operated ON/OFF/ALARM ON master switch for setpoint security
- Push-button alarm test and remote alarm contacts
- Alarm silence, ringback and auto reset
- Controller battery backup system
- Alarm setpoints are preset to warn of temperature deviation at 5.5°C overtemperature, 1.5°C undertemperature

Construction

- Interior and exterior cold-rolled steel surfaces finished with high-impact, powder-paint coating
- Multipane sliding glass doors on 45.8 cu. ft. models, keylocked swinging doors with spring-loaded closures on others stay open at 90°
- Two 2" dia. (5.1cm) access ports with hinged covers
- CFC-free refrigerant
- 45.8 cu. ft. units have independent, switch-activated interior light; others have externally operated interior lights
- Duplex vaporproof outlet (live)
- Adjustable epoxy-coated, open-wire shelves
- Dual-wheel casters

ORDERING INFORMATION:
Optional temperature chart recorders, power monitors and other options are available separately.

INCLUDES:
Separate power cord for interior outlets on 45.8 and 78.8 cu. ft. models

WARRANTY:
Two years, parts and labor

CERTIFICATIONS:
UL and cUL listed. CE marked.

Specifications	
Temperature Range	1° to 8°C
Temperature Resolution	1°C
Control	Microprocessor Control
Display	LED
Defrost	Automatic
Refrigerant	CFC-free
Cabinet	Cold-rolled steel finished with high-impact, powder-paint coating
Chamber	Cold-rolled steel finished with high-impact, powder-paint coating
Insulation	High-density CFC-free foam urethane
Compressor	Heavy-duty hermetically sealed
Port(s)	Two 2" dia. (5.1cm) access ports with hinged covers

Capacity†	No. of Doors/Shelves	Interior D × W × H†	Exterior L × W × H†	Shipping Weight	Electrical Requirements	NEMA Plug	Mfr. No.	Cat. No.	Each
23.3 cu. ft. (659L)	1 glass, swinging/2 half-size	29 × 24 × 58" (73.7 × 61 × 147.3cm)	36.4 × 28 × 79.2" (92.5 × 71 × 201.2cm)	425 lb. (193kg)	115V 60Hz	5-15P	REC2304A	**22-245-957**	6520.26
					208V 60Hz	6-15P	REC2304D	**13-989-231**	6530.48
29.2 cu. ft. (826L)	1 glass, swinging/2 half-size	29 × 30 × 58" (73.7 × 76.2 × 147.3cm)	36.4 × 34 × 79.2" (92.5 × 86.4 × 201.2cm)	435 lb. (197kg)	115V 60Hz	5-15P	REC3004A	**13-991-136**	7501.35
45.8 cu. ft. (1297L)	2 glass, sliding/2 half-size, 4 full-size	26 × 52.5 × 58" (66 × 133.4 × 147.3cm)	34.5 × 56.5 × 79.1" (83.8 × 143.5 × 200.9cm)	670 lb. (304kg)	115V 60Hz	5-20P	REC4504A	**13-991-142**	9392.44
					208/230V 60Hz	6-15P	REC4504D	**13-991-143**	9392.44
51.1 cu. ft. (1447L)	2 glass, swinging/2 half-size, 4 full-size	26 × 52.5 × 58" (66 × 133.4 × 147.3cm)	36.4 × 56.5 × 79.2" (87.6 × 143.5 × 200.9cm)	580 lb. (263kg)	115V 60Hz	5-20P	REC5004A	**13-990-17A**	9719.46
					208/230V 60Hz	6-15P	REC5004D	**13-990-17B**	9719.46
78.8 cu. ft. (2231L)	3 glass, swinging/2 half size, 8 full-size	29 × 81 × 58" (73.7 × 205.7 × 147.3cm)	36.4 × 85 × 79.2" (92.5 × 215.9 × 201.2cm)	965 lb. (438kg)	115V 60Hz	5-20P	REC7504A	**13-991-85**	12,202.42
					208/230V 60Hz	6-15P	REC7504D	**13-991-86**	12,386.46

† Published interior volumes are nominal; usable capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact your Fisher Scientific Customer Service Representative.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ GP Series Chromatography Refrigerators

Performance and security for everyday chromatography applications

Capped 2" I.D. (5.1cm) access portholes in each side wall permit the insertion of thermocouples and other wiring without disturbing temperature settings. Push-button lights and circuit breaker-protected duplex electrical receptacles simplify equipment operation and allow observation of ongoing separations.

11-670 Series

Performance

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Excellent temperature stability of ±3°C
- Bright digital display
- Automatic defrost

Security

- Optional chart recorder
- High/low temperature alarms
- Keyed on/off switch
- Door ajar alarm (except sliding glass door models)

Quality

- Painted, high-quality steel exterior
- Choice of painted or stainless steel interior
- Two 2" side access ports
- Energy-efficient, double pane, argon-filled glass doors
- Interior duplex outlet

ORDERING INFORMATION: For 115V 60Hz. Equipped with NEMA 5-20P line cord plug; require a NEMA 5-20R receptacle.

WARRANTY: Two years (parts and labor)

COMPLIANCE: UL listed.

Specifications	
Style	Upright
Temperature Range	1° to 12°C
Refrigerant	R-134A
Condenser Type	Fin and Tube
Defrost	Automatic
Casters	No
Insulation	Polyurethane foam
Plug Type	NEMA 5-15
Electrical Requirements	115V 60Hz

Capacity	Interior D × W × H	Exterior L × W × H	Monitoring Options	Door[s]/Shelves	Amperage	Mfr. No.	Cat. No.	Each
Stainless-steel cabinet with stainless-steel liner								
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78" (Add 1.75" to Depth for handle)	Alarms Only	Glass door, single/Gray – 4 Wire	5.8A	MH30SS-GAEE-TS	**11-670-345**	8100.18
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78 " (Add 1.75" to Depth for handle)	Alarms and Recorder	Glass door, single/Gray – 4 Wire	5.8A	MH30SS-GARE-TS	**11-670-346**	8805.00
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms Only	Sliding glass door, double/ Gray – 8 Wire	8.8A	MH45SS-GAEE-TS	**11-670-351**	8805.00
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms and Recorder	Sliding glass door, double/ Gray – 8 Wire	8.8A	MH45SS-GARE-TS	**11-670-352**	9736.36
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78 " (Add 1.75" to Depth for handle)	Alarms Only	Glass door, double/Gray – 8 Wire	8.8A	MH49SS-GAEE-TS	**11-670-355**	9767.20
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78 " (Add 1.75" to Depth for handle)	Alarms and Recorder	Glass door, double/Gray – 8 Wire	8.8A	MH49SS-GARE-TS	**11-670-356**	10,718.18
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78 " (Add 1.75" to Depth for handle)	Alarms Only	Glass door, triple/Gray – 12 Wire	9.9A	MH72SS-GAEE-TS	**11-670-359**	12,272.36
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78 " (Add 1.75" to Depth for handle)	Alarms and Recorder	Glass door, triple/Gray – 12 Wire	9.9A	MH72SS-GARE-TS	**11-670-360**	13,223.34
White painted cabinet with white liner								
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Alarms Only	Glass door, single/White – 4 Wire	5.8A	MH30PA-GAEE-TS	**11-670-343**	6433.16
27 cu. ft.	28.5 × 27 × 61.75"	32 × 30 × 78"	Alarms and Recorder	Glass door, single/White – 4 Wire	5.8A	MH30PA-GARE-TS	**11-670-344**	7506.23
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Alarms Only	Sliding glass door, double/ White – 8 Wire	8.8A	MH38PA-GAEE-TS	**13-991-891**	7386.06
38 cu. ft.	27 × 40.5 × 61.75"	32 × 43.5 × 78"	Alarms and Recorder	Sliding glass door, double/ White – 8 Wire	8.8A	MH38PA-GARE-TS	**13-991-892**	8347.68
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms Only	Sliding glass door, double/ White – 8 Wire	8.8A	MH45PA-GAEE-TS	**11-670-349**	7854.02
45 cu. ft.	27 × 48.63 × 61.75"	32 × 52 × 78"	Alarms and Recorder	Sliding glass door, double/ White – 8 Wire	8.8A	MH45PA-GARE-TS	**11-670-350**	8938.29
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Alarms Only	Glass door, double/White – 8 Wire	8.8A	MH49PA-GAEE-TS	**11-670-353**	8222.29
49 cu. ft.	28.5 × 48.63 × 61.75"	32 × 52 × 78"	Alarms and Recorder	Glass door, double/White – 8 Wire	8.8A	MH49PA-GARE-TS	**11-670-354**	9173.25
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Alarms Only	Glass door, triple/White – 12 Wire	9.9A	MH72PA-GAEE-TS	**11-670-357**	10,370.39
72 cu. ft.	28.5 × 72 × 61.75"	32 × 75 × 78"	Alarms and Recorder	Glass door, triple/White – 12 Wire	9.9A	MH72PA-GARE-TS	**11-670-358**	11,321.39

Thermo Scientific™ Revco™ Blood Bank Refrigerators

With enhanced digital electronic technology designed to simplify operation and deliver greater accuracy

- Positive, forced-air circulation maintains temperature uniformity throughout
- Directional airflow assures quick recovery after door is opened
- High-density, CFC-free urethane foam insulation protects cabinet from ambient temperature fluctuations and minimizes operating costs
- Heavy-duty, industrial-grade, hermetically sealed compressors
- Automatic condensate removal and defrost

Microprocessor Control

- Digital electronic technology designed to simplify operation and deliver greater accuracy
- Factory-preset temperature setpoint at 4°C
- Adjustable temperatures between 1° and 8°C
- Icon-based controls
- Large, easy-to-read digital display that shows temperature within 0.1°C
- Graphic thermometer shows steady green when temperature is normal, flashes top bar for overtemperature, flashes bulb for undertemperature
- Sensor automatically initiates defrost cycle on demand, eliminating need for a defrost timer, minimizing frost buildup and optimizing coil efficiency

Safety and Security

- Audible/visual warnings for temperature deviations or power failure
- Key-operated ON/OFF/ALARM ON master switch for setpoint security
- Pushbutton alarm test and remote alarm contacts
- Alarm silence, ringback and auto reset
- Controller battery backup system
- Alarm setpoints are preset to warn of temperature deviation at 5.5°C overtemperature, 1.5°C undertemperature

Construction

- Cold-rolled steel cabinets with smooth, scratch-resistant painted finish for easy cleaning
- Lockable doors self-close against closed-cell peripheral gasket
- Dual-pane glass viewing door(s) insulated to prevent condensation
- Adjustable, full-extension, stainless-steel drawers
- Interior cabinet lights (except undercounter model)
- Door-activated ON/OFF switch and independent switch on panel
- Adjustable leveling feet
- Undercounter model has a solid door and 1" dia. (2.5cm) access port with plug

Revco Blood Bank Refrigerator

INCLUDES:
6" (15.2cm) 7-day temperature chart recorder (except undercounter model — freestanding recorder available separately)

WARRANTY:
Two years, parts and labor (U.S. and Canada only); international warranties may vary

CERTIFICATIONS:
Meet UL, CUL and CE requirements for safety and performance.

NOTES:
Other voltages available. Contact your Customer Service Representative for more information.

Specifications	
Temperature Range	1° to 8°C
Control	Microprocessor Control
Display	LED
Defrost	Automatic
Refrigerant	CFC- and HCFC-Free R134A
Cabinet	Scratch-resistant painted
Chamber	Scratch-resistant painted
Compressor	.25hp
Insulation	High-density CFC-free foam urethane

Capacity†	No. 450mL Whole Blood Bags	No. Doors/ Drawers	Interior D × W × H†	Exterior L × W × H†	Shipping Weight	Electrical Reqts.	Plug Type	Mfr. No.	Cat. No.	Each
Undercounter										
4.9 cu. ft. (139L)	48	1 solid/2	20 × 20 × 20" (50.8 × 50.8 × 50.8cm)	28.9 × 24 × 34" (73.4 × 61 × 86.4cm)	212 lb. (96kg)	208/230V 60Hz	NEMA 6-15P	REB404D	**14-259-232**	5754.35
Spacesaver										
11.5 cu. ft. (326L)	120	1 glass/5	21 × 20 × 52.4" (53.3 × 50.8 × 133.1cm)	29.5 × 24 × 73.6" (74.9 × 61 × 186.9cm)	320 lb. (145kg)	208/230V 60Hz	NEMA 6-15P	REB1204D	**14-259-231**	8901.62

† Published interior volumes are nominal; usable capacities may be offset by shelves, drawers, blower coils or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact your Customer Service Representative.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Refrigerators/Freezers

General Purpose

Fisher Scientific™ Isotemp™ Combination Refrigerator/Freezer

Ideal for storing nonvolatile reagents, samples and specimens

- Temperature range from 1° to 12°C (refrigerator), -12 to -20°C (freezer)
- Total capacity: 17.6 cu. ft. (507L)
- Automatic defrost
- Energy usage: 470 kWH/year
- Two adjustable shelves
- Right door swing that's reversible

ORDERING INFORMATION: Exterior dimensions, 32L × 28W × 66.5"H. Requires air clearance of 4" around top, back and sides. Shipping weight, 225 lb. For 115V, 60Hz. Has NEMA 5-15 plug, requires NEMA-15 receptacle.

WARRANTY: 13 months, parts and labor

CERTIFICATIONS: UL/cUL listed.

13-994-201

Specifications	
Capacity	17.6 cu. ft.
Temperature Range (Refrigerator / Freezer)	1° to 12°C/-12° to -20°C
Interior D × W × H (Refrigerator / Freezer)	17.5 × 25 × 32"/15 × 23 × 15.25"
Exterior L × W × H	32 × 28 × 66.5"
No. of Doors/Shelves	2 hinged/2
Defrost	Automatic
Material (Chamber/Cabinet)	PlasticPainted steel
Electrical Requirements	115V 60Hz
Shipping Weight	225 lbs.

Description	Cat. No.	Each
17.6 cu. ft. Refrigerator/Freezer	**13-994-201**	3007.62

Fisher Scientific™ Isotemp™ General Purpose Series Refrigerator/Freezers

Particularly suited for routine laboratory applications

Isotemp General Purpose lab refrigerators and freezers deliver the performance, security and quality features you have come to depend on. Our combination laboratory refrigerator/freezer is particularly suited for routine laboratory applications.

Performance

- Dual refrigeration system
- Refrigerator temperature range: 1° to 12°C (factory setpoint 4°C)
- Freezer temperature range: -20° to 0°C (factory setpoint -20°C)
- Digital temperature controller for both chambers with intuitive interface
- Temperature stability of ±3°C
- High-density, fluorine-free insulation
- Automatic defrost
- 1" rear access port in each compartment

Security

- Keyed on/off switch
- High/low temperature; audio/visual alarms
- Easily accessible contacts for backup monitoring
- Door ajar alarms
- Lockable controller settings

Quality

- High-quality steel front exterior
- Aluminum interior
- Casters for easy mobility
- Quiet refrigeration system
- cUL listed

CERTIFICATIONS:
cUL

ALERTS:
These units are intended for basic laboratory use only. Storage of high-value, life science materials or clinical biologicals may require alarm, monitoring, back-up and temperature performance features. The need to add these features should be determined by your industrial hygenist or safety officer. These units are not suitable for corrosive environments.

13-991-898

Capacity	Interior D × W × H	Exterior D × W × H	Monitoring Options	Door[s]/No. of Shelves	Electrical Requirements	Weight	Cat. No.	Each
2 × 10 cu. ft.	28.75 × 20 × 28" per compartment	35.5 × 26 × 82.3" (Add 1.75" to Depth for handle) (Casters for combo 4.75")	Yes	Two solid stainless-steel half doors/Four epoxy-coated (two per chamber)	115V 60Hz	420 lb.	**13-991-898**	9933.37

Thermo Scientific™ GP Series Combination Lab Refrigerator/Freezer

For routine laboratory applications

Performance

- Dual refrigeration system
- Refrigerator temperaure range: 1° to 12°C (factory setpoint 4°C)
- Freezer temperture range: -20° to 0°C (factory setpoint -20°C)
- Digital temperature controller for each chamber with intuitive interface
- Temperature stability of ±3°C
- High-density, fluorine-free insulation
- Automatic defrost
- 1" rear access port in each compartment

Security

- Keyed on/off switch
- High/low temperature; audio/visual alarms
- Easily accessible contacts for backup monitoring
- Door ajar alarms
- Lockable controller settings

Quality

- High-quality steel exterior front and aluminum interior
- Casters for easy mobility
- Quiet refrigeration system
- cUL listed

CERTIFICATIONS:
cUL

13-991-897

Capacity	Interior D × W × H	Exterior D × W × H	Door[s]/No. of Shelves	Electrical Requirements	Weight	Mfr. No.	Cat. No	Each
2 × 10 cu. ft.	28.75 × 20 × 28" per compartment	35.5 × 26 × 82.3 (Add 1.75" to Depth for handle) (Casters for combo 4 3/4")"	2 solid stainless-steel half doors/Four epoxy-coated (two per chamber)	115V 60Hz	420 lbs.	MC20SSSAEE-TS	**13-991-897**	10,731.44

Thermo Scientific™ Value Lab Refrigerator/Freezers

Thermo Scientific Value laboratory refrigerators, freezers and combination units provide an economical solution for safe, sample storage. Not available outside North America.

- Factory tested prior to shipment
- NRTL listed
- Environmentally-friendly, non CFC refrigerants
- Adjustable temperature control
- Easy to clean, durable finish
- Manual and auto defrost combination units

CERTIFICATIONS:
CSA and UL

ALERTS:
These units are intended for basic laboratory use only. Storage of high-value, life science materials or clinical biologicals may require alarm, monitoring, back-up and temperature performance features. The need to add these features should be determined by your industrial hygenist or safety officer. These units are not suitable for corrosive environments.

Products in this grouping may have voltages other than the standard US 110/115V. Please review and confirm your selection before completing your order. Some of these products may not be returned.

Capacity	Temperature Range (Freezer)	Temperature Range (Refrigerator)	Defrost	Electrical Requirements	Mfr. No.	Cat. No.	Each
5.6 cu. ft.	-12° to -20°C	1° to 12°C	Manual	120V 60Hz	3750	**22-299-773**	2013.26
24.6 cu. ft.	-12° to -20°C	1° to 12°C	Automatic	120V 60Hz	RCRF252A	**13-991-90**	3160.14

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Special Purpose

Fisher Scientific™ Isotemp™ Explosion-Proof Refrigerator/ Freezers

For storage of volatile materials in areas with explosive atmospheres

- Total capacity: 11 cu. ft. (311L)
- Allow setpoint adjustment while running
- Manual defrost
- CFC-free refrigerant

13-986-116D

Safety Features

- Red warning label on front reads: "Explosion-Proof Refrigerator"
- Top-mounted hydraulic thermostats and door stops
- Compressors with enclosed overloads and relays
- Static condensers and evaporators free of electric fans

Two-door 10 cu. ft. (283.16L) Model

- Refrigerator: 2° to 5°C, 8.1 cu. ft. (229.36L), four fixed shelves
- Freezer: -18° to -10°C, 2.0 cu. ft. (56.63L), one fixed shelf, one door compartment
- White enamel-coated steel exterior
- White ABS plastic interior
- Two adjustable, two fixed pads on bottom for easy installation and leveling

ORDERING INFORMATION:
For 115V 60Hz. Not equipped with line cord and plug; must be hardwired into an appropriately rated conduit box to comply with NEC code.

WARRANTY:
13 months, parts and labor

COMPLIANCE:
OSHA 29CFR1910.307

CERTIFICATIONS:
UL listed (two-door for Class 1 and Groups C and D hazard locations); CSA approved.

Capacity	Exterior L × W × H[1]	Shipping Weight	Cat. No.	Each
10 cu. ft. (283.16L)	24.5 × 23.5 × 69" (62 × 60 × 175cm)[2]	195 lb. (88.5kg)	**13-986-116D**	3723.72

[1] Length includes handles, height includes top-mounted controls.
[2] Requires air clearance of 3" (7.6cm) around top and back, .5" (1.3cm) on sides.

Fisher Scientific™ Isotemp™ Flammable-Materials Storage Refrigerator/Freezers

For storage of volatile materials

Safely store ethyl ether, hexane, naphtha, benzol, epoxies, solvents, fuels, pharmaceuticals, clinical reagents and biologicals.

- Manual defrost
- CFC-free refrigerant
- Foamed polyurethane insulation ensures temperature uniformity
- White enamel steel exteriors
- ABS white plastic interiors
- White epoxy-coated steel shelves
- Doors open from left

13-986-111D

Safety Features

- Orange warning label reads: "Flammable Material Storage Refrigerator"
- Sparkproof interiors separate contents from compressor and motor
- Top-mounted hydraulic thermostat and door stop
- Magnetic door gaskets provide airtight seals that insulate and prevent release of hazardous fumes
- Compressors have enclosed overloads, relays and thermostats to prevent sparks from escaping during opening and closing
- Static condensers and evaporators are free of electric fans
- Two-door 10 cu. ft. (283L) unit
- Refrigerator: 2° to 10°C, 8.0 cu. ft. (226.5L)
- Freezer: -18° to -5°C, 2.0 cu. ft. (56.6L)
- Five white epoxy-coated steel adjustable shelves, four fixed shelves, one full-width slide-out bottom drawer in refrigerator
- One fixed shelf, one door compartment in freezer
- Two adjustable and two fixed pads allow easy installation and leveling

ORDERING INFORMATION:
For 115V 60Hz. Supplied with NEMA 5-15P plug; requires NEMA 5-15R wall receptacle.

WARRANTY: 13 months, parts and labor

COMPLIANCE: Complies with OSHA 29CFR1910.106 and NFPA Standard Numbers 45, 56C and 99.

CERTIFICATIONS: UL listed, CSA approved.

Model	Exterior L × W × H[†]	Shipping Weight	Cat. No.	Each
Basic	24.5 × 23.5 × 65" (62 × 60 × 165cm)[‡]	170 lb. (77kg)	**13-986-111D**	3703.26

[†] Length includes handles, height includes top-mounted controls.

Safety

Controlled Environments

Buckets and Mops

Contec™ EasyCurve™ Mopping System

Lightweight alternative to traditional roller-style mops

The EasyCurve mop consists of a flat, fabric-laminated mop head attached to a curved, stainless steel frame. The disposable mop head attaches securely to the curved frame by a unique system of latching tabs that is simple and easy to remove.

19-168-746

- Up to 50% lighter than self-wringing roller mops
- Ultimate maneuverability allows maximum cleaning speed
- Curved mop surface offers true "lift-and-pull" surface
- Enables all-surface cleaning with a single mopping tool
- Designed for use in pharmaceutical and medical device manufacturing plants, hospitals, compounding pharmacies and other critical or controlled environments
- Non-dripping mop head suitable for use on ceilings, walls and floors
- Fixed 60" (152.4cm) length stainless-steel handle
- Lightweight "sling" style wringer installs over autoclavable 6.5 gal. (25L) polypropylene bucket to completely and easily remove liquid from the mop head
- All hardware and mop heads are autoclavable

ORDERING INFORMATION:
Complete mop system includes mop head, mop head frame, handle and bucket with Slinger™ frame. Components sold separately.

Description	Mfr. No.	Cat. No.	Price
Mophead, nonsterile	EZMP0100	**19-168-746**	Pk. of 4/79.60
Stainless-steel pivoting frame	2724	**19-168-749**	Ea./129.97
60 in.L handle	2725	**19-168-750**	Ea./77.20

ON THE WEB...

Did you know that Fisher Scientific has a solution for all of your cleaning needs?

Visit www.fishersci.com and search for Controlled Environments Mops

Contec™ EasyReach™ Cleaning Tool

For isolators, laminar airflow hoods, cabinets and glove boxes

19-830-000

Cleaning Tool

- Made from lightweight stainless steel, the mop is fully autoclavable and easy to use with one hand
- A swivel joint allows the mop head to pivot, enabling a user to easily reach corners, ceilings, walls, and other hard-to-reach areas inside an isolator
- Use with a variety of disposable EasyReach Cleaning Pads
- Requires no assembly and is maintenance-free
- Optimized handle length of 17 in. (43cm) reduces over-reaching by operators during cleaning, minimizing the risk of strains

Cleaning Pads

- Well-fitted quilted polyester pad ensures effective, even surface coverage, reducing the number of viable and non-viable contaminants and ensuring maximum residue removal
- Sorbent double layer Quiltec™ sealed-edge pads ensure particles and fibers are minimized
- Specially designed cleaning pad tab/grip enables quick and easy fitting to the frame with gloved hands
- Double bagged, laundered, validated sterile, single-use pads ensure no bioburden is added to the critical environment
- Nonsterile pads for less critical environments
- Presaturated pad option reduces operator exposure to high levels of VOCs typically experienced when using IPA spray bottles and reduces the volume of hazardous chemical storage
- All components are designed to be chemical resistant, minimizing the risk of contamination from degradation
- Measures: 7.5L × 2.7 in.W (19 × 7cm)

Applications:

For effective cleaning and disinfection of surfaces of separative devices such as: isolators rigid, flexible film, half suits, CAI, CACI, Restricted Access Barrier Systems (RABS), filling lines, Laminar Air Flow Hoods (LAF), Bio-safety Cabinets (BSC), glove boxes, incubators, clean air hoods.

Description	Mfr. No.	Cat. No.	Price
Cleaning Tool	2665SF	**19-830-352**	Ea./171.50
Cleaning Pads			
Quilted polyester	MEQT0001	**19-830-000**	Cs. of 60/362.00
Quilted polyester, sterile	MEQT0002	**19-830-002**	Cs. of60/365.00
Quilted polyester presaturated with 70% IPA, sterile	PSME0001	**19-830-350**	Cs. of60/526.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Contec™ Edgeless™ Mopping System

Available as standard mop or with enhanced ribbed tube mop head

- Mop head is a continuous tube of 100% polyester-knitted fabric looped to form tubular mop strands — compatible with a wide range of chemicals
- Mop strands encapsulate liquids for maximum sorption; generates significantly lower particulate and extractable levels compared to conventional cotton string or nylon mops
- Mop head also available sterilized by gamma radiation; can also be sterilized by EtO and steam (autoclave) sterilization methods
- Validated sterile per the AAMI/ISO Guidelines to a 10^{-6} Sterility Assurance Level (certificates of sterility available)
- Mop heads laundered and packaged in an ISO Class 4 cleanroom
- Autoclavable plastic double bucket system features a wringer and cart with casters
- Mop head handle, Dynamate™ frame (19-130-5911) and bucket system sold separately

19-081-379 with 18-999-476A

Description	Mfr. No.	Cat. No.	Each	Case of
Standard Mop Heads				
Laundered	EL MOP	**19-081-379**	53.60	20/909.50
Enhanced Mop Heads				
Enhanced ribbed, textured headband	EL-MOPT	**19-033-850**	----	20/727.00
Gamma Sterilized				
Standard Mop Head	EL-MOP-IR	**19-042-770**	----	20/1163.00
Enhanced Mop Head	EL-MOP-3IR	**19-130-3456**	----	30/1652.00
Mop Handles				
Fiberglass, 64"L (162.6cm)	A71612	**19-130-0477**	44.90	----
Stainless-steel (1 piece), 60"L (152.4cm)	2640	**19-033-777**	335.50	----
Stainless-steel (2 piece), 60"L (152.4cm)	2641	**18-999-476A**	307.50	----
Plastic Double Bucket System				
16 gal. (60.5L)	2720	**19-168-744**	397.00	----
Parts				
Wringer insert	2695	**19-168-745**	205.50	----

Contec™ QuickConnect™ Mop System Frames and Handles

Separately sold components complete VertiKlean™ and Edgeless™ Mop System mops

Mop head frames are compatible with all QuickConnect mop handles. All frames and mop handles are fully autoclavable.

Frames

- Feature a capped end and quick-connect feature for easy attachment
- VertiKlean frames are available for 6, 7.5, 12 or 14" (15.2, 19.1, 30.5 or 35.6cm) VertiKlean mops
- Dynamate™ Edgeless Mop Frame measures 6W × 7"L (15.2 × 17.8cm)

Handles

- Choose from lightweight anodized aluminum or durable electropolished stainless steel
- 16" (40cm) handle telescopes to 30" (76.2cm)
- 50" (127cm) handle telescopes to 92" (234cm)

Mop System frame (19-130-5911)

Size	Mfr. No.	Cat. No.	Each
VertiKlean Mop Head Frames			
12" (30.5cm)	2652A	**19-130-5909**	178.60
14" (35.6cm)	2653A	**19-130-5910**	184.10
Dynamate Mop Head Frames			
6 × 7" (15.2 × 17.8cm)	2646	**19-130-5911**	137.40
Anodized Aluminum Mop Handles			
50" (127cm)	2643	**19-130-5913**	145.80
Stainless Steel Mop Handles, Two Piece			
50" (127cm)	2645	**19-130-5915**	357.50

LOOKING FOR ...?

Additional images of this product?

Visit www.fisherscientific and search for Contec Quickconnect

Contec™ Tax-Fre™ Dry Mopping System

Cleanroom tack cloth dry mop

- Designed for dry mopping floors and walls when liquids are not recommended
- Large 23 × 5" (58.4 × 13cm) tapered swivel head attaches to lightweight 8' (2.4m) telescoping handle (two-piece) allowing operator to clean hard-to-reach areas
- Pressure-sensitive formulation will not scratch or damage surfaces
- Virtually eliminates potential for tack transfer from wipe to surface or gloves
- Nonwoven substrate has apertured surface texture that maximizes cleaning efficiency and dirt retention capacity
- All hardware is cleanroom compatible

ORDERING INFORMATION:
For complete system order mop head, mop cover and handle (components sold separately).

19-150-0699

Description	Mfr. No.	Cat. No.	Case of
Floor mop cover	TF-1228	**19-150-0699**	200/320.50
Mop head frame	UF211	**19-150-0700**	Ea./95.40
Aluminum extension handle	WWP08	**19-150-0703**	Ea./50.60

Contec™ VertiKlean™ Wall Washing System

Lightweight polyester disposable mop head and hardware designed for vertical surfaces

19-120-824

- Developed for wet cleaning of walls and ceilings
- Compatible with a wide range of chemicals — ideal for application of disinfectants and cleaning solvents including bleach, phenol, IPA and quaternary disinfectants
- Single-use VertiKlean mop heads are made of knitted polyester fabric laminated to clean ester foam for high sorbency
- Mop heads are abrasion-resistant and free of any cellulosic contaminants
- Mop heads available sterilized by gamma radiation and validated sterile to a Sterility Assurance Level (SAL) of 10-6 per the AAMI/ISO 11137 Method 1 Guidelines1.
- Up to 50% lighter than self-wringing roller mops
- Ultimate maneuverability allows maximum cleaning speed
- Curved mop surface offers true "lift-and-pull" surface
- Enables all-surface cleaning with a single mopping tool
- Designed for one-time use; disposable mop heads are available in 3 sizes
- Comprised of polyester fabric laminated to clean ester foam, which provides excellent abrasion resistance
- Textured VertiKlean has a textured polyester face for those applications that require additional abrasion to improve particle removal from surface
- Compatible with a wide range of chemicals
- Lightweight, easy-to-maneuver swivel frame slips inside the mop head, allowing a full range of motion

ORDERING INFORMATION:
Frames, handles and bucket wringer system sold separately, contact your Fisher Safety Customer Service Representative.

Description	Mfr. No.	Cat. No.	Case of
Sterile Mopheads			
For 7" (17.8cm) frame	VK-MOP IR	**19-120-824**	48/1168.00
For 12" (31cm) frame[2]	MVK-MOP IR	**19-120-825**	32/707.50
For 12" (17.8cm) frame (textured)	TMVK-MOP IR	**19-167-026**	32/841.00
For 14" (36cm) frame	LVK-MOP IR	**19-120-826**	32/967.00
Nonsterile Mopheads			
For 7" (17.8cm) frame	VK-MOP	**19-084-862**	48/543.50
For 12" (31cm) frame	MVK-MOP	**19-040-897**	32/480.50
Aluminum Handle with Fixed 12" Mop Frame	2676	**19-038-555**	Ea./167.90

LOOKING FOR ...?
For a full offering of additional mopping solutions and accessories...
Visit www.fisherscientific.com and search for Contec Mopping Systems

Contec™ Bucket Systems

Compact design is ideal for smaller cleanrooms

19-200-005

- Fully autoclavable stainless-steel rolling carts with two polypropylene 5 gallon (20L) or 6.5 gallon (25L) buckets (red, gray) and stainless steel drip cap
- Durable, yet lightweight construction makes bucket systems easy to maneuver around cleanrooms
- Cart features four standard or heavy-duty casters
- Double bucket system allows for differentiation between cleaning and rinsing solutions

19-033-715

INCLUDES:
Two polypropylene 5 gallon (20L) or 6.5 gallon (25L) buckets (red, gray) and a stainless-steel cart with standard or heavy-duty casters.

REQUIRES:
Curved stainless-steel sieve 19-200-014 for EasyCurve™ mop and flat stainless-steel sieve 19-033-715 for flat mops such as VertiKlean™ MAX and QuickTask. Sieves require stainless-steel frame 19-033-716 for 5 gal. (20L) buckets and 19-033-717 for 6.5 gal. (25L) buckets.

Descriptions	Mfr. No.	Cat. No.	Each
Two 5 gal. (20L) Buckets and Stainless-steel Cart			
Standard	2769-KIT	**19-200-005**	587.76
Heavy-duty	2770-KIT	**19-200-003**	978.50
Two 6.5 gal. (25L) Buckets and Stainless-steel Cart			
Standard	2771-KIT	**19-200-009**	909.50
Heavy-duty	2772-KIT	**19-200-007**	985.00
Replacement Stainless-steel Carts			
For 2769-KIT (standard casters)	2769	**19-200-004**	427.06
For 2770-KIT (heavy-duty casters)	2770	**19-200-002**	747.50
For 2771-KIT (standard casters)	2771	**19-200-008**	667.50
For 2772-KIT (heavy-duty casters)	2772	**19-200-006**	801.00
Sieves and Frames			
Stainless-steel sieve, For EasyCurve mops (requires sieve frame)	2768	**19-200-014**	262.00
Sieve frame; for 6.5 gal. (25L) bucket	2766	**19-033-715**	119.40

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Contec™ QuickTask™ Mop Covers

Ideally suited for cleaning and applying disinfectant to ceilings, walls and floors including perforated cleanroom floors and grates

The QuickTask system consists of a variety of knitted polyester, polyester/cellulose, microfiber/foam and microfiber flat mop heads that are easily installed onto a hinged mop head frame and handle assembly.

Polyester Knit Mop Covers (19-033-707 and 19-033-708)

- Lightweight, single-use mop covers made of sorbent multi-layer knitted polyester
- Optimized for use on smooth surfaces; apply solutions evenly while removing contaminants
- Supplied cleanroom laundered for more critical environments
- Available sterile and nonsterile

Looped Microfiber Mop Covers (19-168-799)

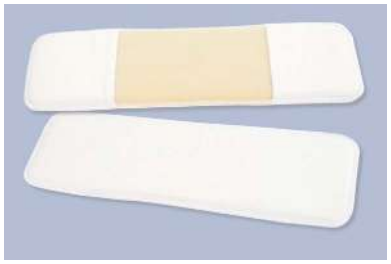
- Highest sorbency of QuickTask mop covers
- Small loop microfiber construction provides exceptional performance in removing liquids, soil, residues and other contaminants from most surfaces
- Exceptional sorbency and mop-to-dry performance on wet surfaces
- Ideal for polymeric flooring

Knitted looped polyester mop heads (19-168-800)

- Cleanest and most durable QuickTask mop cover
- Medium length loops conform to almost any shape
- Ideal for cleaning cove bases, ceiling and wall joints easier than with standard flat mops
- Supplied cleanroom laundered for critical environments

Polyester/cellulose blend mop heads (19-200-012, 19-200-013)

- Lightest QuickTask mop cover features a polyester/cellulose cover over a polyester fiberfill core
- Ideal for cost-effective one-time use
- Highly sorbent mop cover is ideal for removing light soils, residues and biofilms
- Available sterile and nonsterile



19-200-010 and 19-200-011

Microfiber face and foam core mop heads (19-200-010, 19-200-011)

- Unique microfiber face with foam core construction ensures excellent floor contact, sorbency and superior surface cleaning
- Ribbed microfiber allows for exceptional cleaning, solution application and mop-to-dry performance
- Available sterile and nonsterile

Description	Mfr. No.	Cat. No.	Price
Mop Covers			
Nonsterile knit polyester mop cover	TASK0200	**19-033-707**	Cs. of 48/308.77
Sterile knit polyester mop cover	TASK0250	**19-033-708**	Cs. of 40/529.00
Polyester microfiber mop cover, small loop	TASK0300	**19-168-799**	Cs. of 40/341.50
Polyester microfiber mop cover, medium loop	TASK0400	**19-168-800**	Pk. of 10/165.80
Nonsterile microfiber/foam mop cover	TASK0600	**19-200-010**	Cs. of 40/669.00
Sterile microfiber/foam mop cover	TASK0650	**19-200-011**	Cs. of 40/749.50
Nonsterile polyester/cellulose mop cover	TASK0500	**19-200-012**	Cs. of 48/482.00
Sterile polyester/cellulose mop cover	TASK0550	**19-200-013**	Cs. of 400/642.50

Micronova™ PolyGen™ Mop Heads

Economical and low-linting

- For ISO Class 3 to 8 cleanrooms
- 100% polyester with a herringbone weave in its looped strands
- Made to hold up to strong disinfectants and autoclaving
- No raw edges assure low particulation
- Absorbent enough to clean to dry finish
- Also effective with disinfectants that need extended drying time

REQUIRES:
19-035-363A Quick Disconnect MicroMop™ Adapter and extendable or single-length stainless-steel handle (sold separately). Available through www.fisherscientific.com.

19-059-163

Description	Mfr. No.	Cat. No.	Each
PolyGen Mophead	PG9-12	**19-059-163**	64.70

LOOKING FOR MORE...?

Cannot find the item you're looking for? Go to **www.fishersci.com** for a wide selection of controlled environments products. The top brands from the best-in-class suppliers in the industry.

Micronova™ SlimLine Cleanroom Mop

For floor and wall cleaning

SlimLine Mop Adapter

- Electropolished steel frame
- Flat head rotates 180° in either direction for quick, efficient coverage of floors, walls and corners
- Available in 9, 14 and 18" (23, 36 and 46cm) widths

19-041-768A (handle not included)

NovaPoly™ Slipcovers

- Launderable and reusable and easy to change
- Saturate thoroughly for sterilizing purposes
- Suitable for use with strong disinfectants and repeated autoclaving

Polymesh Cover

- Urethane foam interior
- For heavy duty cleaning tasks, high traffic areas, staining and chemical residues
- Monofilament mesh offers increased abrasion and minimal particulation

REQUIRES:
Mop adapter, slip covers and extendible or standard stainless-steel handle (sold separately).

Size	Mfr. No.	Cat. No.	Each
NovaPoly Covers			
14" (36cm)	SLSC6-14	**19-041-773H**	22.05
Irradiated NovaPoly Covers			
14" (36cm)	SLSC6-14IRLC	**19-045-207LC**	349.50
Mop Adapter			
14" (36cm)	QDSL-14	**19-041-768A**	286.50

Micronova™ PadMop™ Sponge Mop

For use in pharmaceutical production or aseptic processing areas

- Covered sponge mop designed to apply the optimum amount of disinfectant
- Brick-style mop fits onto SlimLine™ QDSL adapters creating a fully padded mop head for large surface areas, shelving, door jambs and corners
- Absorbent foam interior retains liquid well; when pressure is applied, moisture is released to fully saturate surfaces
- Used to disinfect most large surfaces in a production area
- Gamma irradiated

19-165-647

Width	Mfr. No.	Cat. No.	Case of 12
14" (36cm)	SLP6-14IR	**19-165-647**	374.50

Micronova™ T Mop™ Cleanroom Mops

Low-profile, wide-surface mop

- Ideal for applying disinfectants in sterile environments or for general cleaning in ISO Class 3 to 8 cleanroom environments
- 180° swivel allows it to clean easily under equipment or in awkward corners and tight spaces
- Autoclavable "quick-disconnect" stainless-steel/Delrin™ frame
- PVA Cover is low-linting and fast-drying, leaving surfaces dry and residue free; avoid strong detergents and IPA
- NovaPoly™ Cover holds up to stronger disinfectants and is autoclavable; available irradiated
- MegaTex™ Cover is a lightweight, single-use non-woven polyamide, polyester foam; autoclavable and available irradiated; also available in double-thick foam version

19-142-914

Width	Mfr. No.	Cat. No.	Case of
Quick Disconnect Adapters			
18" (46cm)	QDT-18	**19-035-363R**	1/148.30
PVA Covers			
14" (36cm)	T114	**19-035-368D**	1/13.17
NovaPoly Covers			
18" (46cm)	T618	**19-035-368J**	1/26.60
Irradiated NovaPoly Covers			
10" (25cm)	T6-10IR	**19-130-1240**	12/113.22
18" (46cm)	T6-18IR	**19-045-205**	12/484.50
Irradiated MegaTex Mop Covers			
18" (46cm)	T20-18IR	**19-142-911**	12/545.00
Irradiated, Thick MegaTex Mop Covers			
18" (46cm)	T2012-18IR	**19-142-914**	12/172.46

Micronova™ Universal Stainless-Steel Mop Handles

Entire handle can be autoclaved

Designed for use with all ErgoMop™, MicroLoop™, MicroMop™, Nova-Mop™, PilloMop™, Polygen™, SlimLine 2000™, and T Mop™ mop heads or adapters.

- Constructed of sturdy corrosion- and chemical-resistant electropolished stainless-steel
- Extendable and single-length styles
- For ISO Class 3 to 8 cleanrooms

Size	Mfr. No.	Cat. No.	Each
Extendable			
From 32 to 72 in. (81 to 183cm)	SSU-1	**19-035-361A**	205.50
From 62 to 120 in. (157 to 305cm)	SSU-3	**19-035-361B**	255.00
Single-Length			
25 in. (64cm)	SSU-6	**19-035-361C**	55.90
51 in. (130cm)	SSU-7	**19-035-361D**	91.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ITW Texwipe™ AlphaMop™

Flat mopping system for easy and efficient cleaning of floors, walls and ceilings

19-034-207

AlphaMop — The Original Cleanroom mop with handle and single head assembly, plus 60" Handle. Specifically designed for the needs of ultraclean production environments. Easily changeable, laundered polyester mop covers fit over a flat, foam-padded head assembly. Lightweight, durable fiberglass handle provides excellent control over swivel head and accesses hard-to-reach areas with ease.

- Enables rapid change of wiping surfaces for adherence to strict wiping protocol ISO Class 4 cleanroom-laundered Alpha™ polyester mop cover
- Replaceable foam pad ensures that the polyester mop cover conforms to textured floors and other surfaces
- Maintains ultralow generation of particles and extractables
- Resists corrosion, abrasion and commonly used cleaning and disinfecting chemicals such as bleaches, phenols and quaternary ammonium compound
- AlphaMop polyester replacement mopheads and foam pads available separately (150 heads and 6 pads per case)
- AlphaMop mop covers presaturated with 6% IPA Honeycomb™ 10 double-knit polyester mop covers have an abrasive texture (supplied 150 covers per case)

Description	Mfr. No.	Cat. No.	Case of
Accessories and Replacements			
AlphaMop single head assembly, 60 in. handle	TX7108	**19-034-207**	1/154.50
AlphaMop mopheads with foam pads	TX7118	**19-037-712**	150/914.00
AlphaMop mop covers presaturated with 6% IPA	TX7026	**19-130-4546**	100/657.50

ITW Texwipe™ AlphaMop™ Isolator Cleaning Tool

Excellent for cleaning isolators, laminar flow hoods, biosafety cabinets and glove boxes

19-160-0022

The Texwipe® AlphaMop™ Isolator Cleaning Tool is designed to clean isolators, biosafety cabinets, glove boxes and laminar flow hoods. The mop has a low, flat profile and rounded corners. It is made from Celcon® plastic and is totally autoclavable. The swivel joint allows a user to reach difficult-to-access areas. The replaceable foam pad ensures that the mop cover conforms to the surfaces being cleaned.

- Fully autoclavable
- Rapid-change configuration
- Two fiberglass handles, 12" and 18", with nylon and vinyl fitments
- Low profile, swivel head
- Polyester foam pad to ensure full contact with surfaces
- Rounded corners and no exposed seams

INCLUDES:
Two handles (18 and 24" long), one polyester foam pad and six TechniCloth™ polyester mop covers. Mop with telescoping handle includes six polyester mop covers.

Description	Mfr. No.	Cat. No.	Pack of 25	Case of
AlphaMop Cleaning Tool	TX7101	**19-160-0022**	----	1/233.50
Replacement Mop Covers				
Polyester Replacement Mop Covers	TX7114	**19-139-693**	145.50	6/738.50
Mini Cleanroom mop with handle (includes 6 poly mop covers)	TX7104	**19-139-692**	----	1/213.50

LOOKING FOR ...?

For AlphaMop replacement mop covers...

Visit www.fishersci.com and search for Cat. No. 19-139-878

LOOKING FOR MORE...?

A comprehensive selection of cleaning products, disinfectants, sanitizers, sterilizers and other items to help maintain your facility can be found in the "Cleaners" section, or at **www.fishersci.com.**

Cabinets

Acids/Corrosives

Justrite™ Metallic Acids and Caustics Cabinets

18-gauge steel construction with heat-fused powder coating

- Self-latching mechanism to ensure proper closure and engagement of three-point lock for protection under fire conditions
- Hidden mechanism on self-close style optimizes shelf space, provides obstruction-free access to contents
- Fusible link holds doors wide open — melts at 74°C (165°F) to automatically close doors in case of fire

INCLUDES:
Polyethylene top work tray can be secured to cabinet top for a handy work surface.

COMPLIANCE:
Meet NFPA Code 30 and comply with OSHA regulations.

CERTIFICATIONS:
FM approved.

ALERTS:
Not recommended for storage of phenol, nitric acid, or sulfuric acid.

17-988-445

Capacity	L × W × H	Mfr. No.	Cat. No.	Each
Manual with Two Doors				
30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	893002	**17-154A**	1311.18
Self-closing with Two Doors				
30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	893022	**17-988-445**	1410.00

Justrite™ Cabinets for Highly Corrosive Acids

For safely storing nitrics, dichlorics, phenols and other highly corrosive acids

- Durable and highly chemical resistant
- Made from 0.75" (1.9cm) particle board clad internally and externally with a chemical-resistant laminate — no internal metal parts to corrode
- With double sliding doors
- **Model 17-985-62:** Ideal for easy access as a benchtop cabinet; holds up to six 2.5L bottles and has nonlocking sliding doors
- **Model 17-985-64A:** High-density polyethylene top with slightly raised, curved lip that contains spills, makes cleanup easy
- **Model 17-985-64B:** Suitable for large storage jobs and floor placement

INCLUDES:
Adjustable leg levelers, Haz-Alert™ reflective labels and double key set for safety and security.

17-985-64A

Capacity	L × W × H	No. of Shelves	Weight	Mfr. No.	Cat. No.	Each
6 × 2.5L bottles	16 × 24 × 18" (41 × 61 × 46cm)	0	51 lb. (23kg)	24120	**17-985-62**	721.50
36 × 2.5L bottles	22 × 36 × 35.75" (55.9 × 91.44 × 90.8cm)	1	233 lb. (106kg)	24140	**17-985-64A**	1652.00
49 × 2.5L bottles	22 × 43 × 61" (56 × 109 × 155cm)	2	320 lb. (145kg)	24150	**17-985-64B**	2330.00

Justrite™ Blue Polyethylene Acid Storage Cabinets

Maximum protection against harsh environments and corrosives

- For highly corrosive acids
- Clearly labeled with "ACID"
- Accept a padlock (not included) for added security

18-999-4413B

Countertop model

- Door can be hinged from either side for best countertop space utilization
- Polyethylene spill tray inside contains leaks and removes for easy cleaning
- A separate polyethylene tray stores under cabinet and can be used as a work tray

Undercounter model

- Each segregated compartment has an adjustable shelf and storage in both doors for small containers
- Two removable sumps slide out for easy cleaning of incidental spills
- Two vent holes (with removable caps) on backside accommodate pressurized vapor removal systems
- Includes hardware to secure cabinet to wall

Capacity	L × W × H	No. of Shelves	Weight	Mfr. No.	Cat. No.	Each
Countertop						
2 × 4L bottles	16.25 × 14.25 × 19.5" (56 × 91 × 89cm)	0	30 lb. (14kg)	24040	**18-999-4413A**	625.00
Undercounter						
30 × 1L bottles	23.5 × 36 × 35" (59.7 × 91.4 × 89cm)	2	120 lb. (59kg)	24160	**18-999-4413B**	1695.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Eagle™ Floor Model Corrosives Cabinets

For use in storing small containers up to 5 gal. capacity

- Suitable for storage of flammable and nonflammable acids and corrosive liquids
- Rugged 18-gauge steel cabinets coated with tough blue epoxy powder on interior and exterior surfaces, including shelves, for extra protection against corrosive acids and caustics
- Coated surfaces are superior to epoxy- or enamel-painted surfaces in case of spill or splash
- Doors clearly labeled "CAUTION — CORROSIVES"
- High-density polyethylene trays for shelves and bottom with drip edge contains liquid spills; removable for easy cleaning

COMPLIANCE:
Meet NFPA Code 30 and OSHA requirements.

CERTIFICATIONS:
FM approved except models 17-120-2933, 19-120-714, 19-160-513 and 19-120-715.

ALERTS:
Not recommended for use with sulfuric, nitric or hydrochloric acid.

17-156-2B

Door Type	Capacity	L × W × H	No. of Shelves	Weight	Mfr. No.	Cat. No.	Each
One-Door Models							
Manual	4 gal. (15L)	18 × 17.5 × 22.5" (46 × 45 × 57cm)	1	69 lb. (31kg)	CRA-1904	**19-120-714**	985.50
Self-closing	4 gal. (15L)	18 × 17.5 × 22.5" (46 × 44 × 57cm)	1	70 lb. (32kg)	CRA-1903	**19-120-2933**	1070.00
Manual	16 gal. (61L)	18 × 23 × 44" (46 × 58 × 112cm)	1	150 lb. (68kg)	CRA-1906	**19-120-715**	1398.00
Manual	24 gal. (91L)	18 × 23 × 65" (46 × 58 × 165cm)	3	270 lb. (122kg)	CRA-1923	**19-120-716**	1538.00
Two-Door Models							
Manual	30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	1	253 lb. (115kg)	CRA-32	**17-156-2B**	1513.00
Self-closing	30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	1	257 lb. (117kg)	CRA-3010	**19-120-717**	2060.00
Manual	45 gal. (170L)	18 × 43 × 65" (46 × 109 × 165cm)	2	351 lb. (159kg)	CRA-47	**17-156-2D**	1854.00
Self-closing	45 gal. (170L)	18 × 43 × 65" (46 × 109 × 165cm)	2	353 lb. (160kg)	CRA-4510	**19-120-718**	2530.00
Manual	60 gal. (227L)	31.25 × 31.25 × 65" (79 × 79 × 165cm)	2	363 lb. (164kg)	CRA-62	**17-156-2E**	2260.00
Self-closing	60 gal. (227L)	31.25 × 31.25 × 65" (79 × 79 × 165cm)	2	364 lb. (165kg)	CRA-6010	**19-120-719**	2270.00

Labconco Protector Solvent Storage Cabinets

Support Labconco fume hoods – safely store, vent solvents and other flammable liquids

- Key-locked doors are manual closing or self-closing/self-latching with sequencing mechanism
- Self-closing door(s) close automatically in case of fire when temperature reaches 74°C (165°F)
- Powder-coated steel interior shelf with five height settings

INCLUDES:
Vent connections with flame arrestors and closure plugs (2); Leveling feet (4); 8" filler panel

16-305-56

Door Type	Cabinet Width	Mfr. No.	Cat. No.	Each
Solvent Storage Cabinets				
Manual-Closing, single right hinge	24" (61cm)	9902300	**16-305-56**	2030.00
Manual-Closing, Dual	30" (76cm)	9902200	**16-305-84**	2080.00
Manual-closing, Dual	36" (91cm)	9902100	**16-305-82**	2150.00
Self-closing, Dual	36" (91cm)	9903100	**16-305-61**	2790.00
Manual-Closing, Dual	48" (122cm)	9902000	**16-305-83**	2240.00
Self-Closing, Dual	48" (122cm)	9903000	**16-305-62**	2890.00
Acid Storage Cabinets				
Manual-Closing, single right hinge	24" (61cm)	9901300	**16-305-54**	1484.00
Manual-Closing, single left hinge	24" (61cm)	9901500	**16-305-55**	1484.00
Manual-Closing, Dual	30" (76cm)	9901200	**16-305-87**	1535.00
Manual-Closing, Dual	36" (91cm)	9901100	**16-305-85**	1592.00
Manual-Closing, Dual	48" (122cm)	9901000	**16-305-86**	1684.00

Flammables

Justrite™ Sure-Grip™ EX Flammables Safety Can Storage Cabinets With Handles

Nonslip gripper allows fingertip opening

- Sure-Grip EX flush-mounted door handle doesn't interfere with traffic; comes with two keys for security and can be padlocked (padlock not included)
- Exclusive self-latching feature ensures that cabinet doors are safely closed without manually engaging door handle
- Double-wall construction provides 1.5" (3.8cm) of insulating air space to help prevent spread of flames
- High-visibility Haz-Alert™ reflective warning labels offer added safety during power outages or fires
- Dual vents with flame arresters at top and opposite bottom allow hazardous vapors to be piped away
- Easy-closing, self-latching doors facilitate fire protection of the cabinet
- Self-latch engages critical three-point latching system for protection under fire conditions
- Fusible links hold self-closing doors wide open, flush with front of cabinet for easy access and resupply; automatically release and slam doors shut at 74°C (165°F)
- Concealed self-close mechanism provides optimum storage space and obstruction-free access to contents
- Two-door models hinged left and right have self-closing mechanism that ensures proper closing sequence regardless of which door is released first
- SpillSlope™ safety shelves direct incidental spills to the back and bottom of leakproof sump
- Adjustable leveling feet ensure solid positioning and alignment for tight door closure
- Exterior side panel has built-in grounding connector for easy grounding
- Finished inside and out with durable lead-free powder paint
- Meet OSHA and NFPA requirements

19-120-2333

WARRANTY:
10 years

COMPLIANCE:
Meet NFPA Code 30 and OSHA regulations; models with self-close doors also comply with the Uniform Fire Code.

CERTIFICATIONS:
FM approved except 19-120-2336.

Capacity	H × W × D	No. of Shelves	Weight	Mfr. No.	Cat. No.	Each
Two Manual Doors						
30 gal. (114L)	44 × 43 × 18"(112 × 109 × 46cm)	1	231 lb. (105kg)	893000	**19-120-2333**	1140.00
45 gal. (170L)	65 × 43 × 18"(165 × 109 × 46cm)	1	237 lb. (108kg)	894500	**19-120-2335**	1501.00
60 gal. (227L)	65 × 34 × 34"(165 × 86 × 86cm)	2	310 lb. (141kg)	896000	**19-120-2337**	1561.30
90 gal. (341L)†	65 × 43 × 34"(165 × 109 × 86cm)	2	301 lb. (137kg)	899000	**19-120-2339**	2090.00
Two Self-Closing Doors						
30 gal. (114L)	44 × 43 × 18"(112 × 109 × 46cm)	2	387 lb. (176kg)	893020	**19-120-2334**	1256.00
45 gal. (170L)	65 × 43 × 18"(165 × 109 × 46cm)	2	392 lb. (178kg)	894520	**19-120-2336**	1636.00
60 gal. (227L)	65 × 34 × 34"(165 × 86 × 86cm)	2	480 lb. (218kg)	896020	**19-120-2338**	1874.00
90 gal. (341L)	65 × 43 × 34"(165 × 109 × 86cm)	2	480 lb. (218kg)	899020	**19-120-2340**	2210.00

† No more than 60 gal. may be Class I and Class II liquids.

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Justrite™ Flammables Compac Cabinets

Include all the features of standard-size Justrite flammables cabinets

Compac Cabinets

- One-door cabinet stores up to 12 gal. (45.4L) of flammables
- Double-wall construction provides 1-1/2" of insulating air space to help prevent the spread of flames
- Dual vents with flame arresters at top and opposite bottom allow hazardous vapors to be piped away
- High-visibility Haz-Alert™ reflective warning labels provide added safety during power outages or fires
- Easy-closing, self-latching doors facilitate fire protection of the cabinet
- Self latch engages critical three-point latching system for protection under fire conditions
- Two-door models hinged left and right have self-closing mechanism that ensures proper closing sequence regardless of which door is released first
- Fusible links hold self-closing doors wide open, flush with front of cabinet for easy access and resupply; automatically release and slam doors shut at 74°C (165°F)
- Concealed self-close mechanism provides optimum storage space and obstruction-free access to contents
- One adjustable SpillSlope™ safety shelf directs spills to back and bottom of leakproof sump
- Adjustable leveling feet ensure solid positioning and alignment for tight door closure
- Finished inside and out with a durable lead-free hybrid epoxy and polyester powder paint for chemical resistance
- Fit neatly under counter or stand alone
- Lettering on door reads: "FLAMMABLE — KEEP FIRE AWAY"
- Backed by an exclusive 10-year warranty
- Meet OSHA and NFPA requirements

INCLUDES:
One adjustable shelf.

COMPLIANCE:
Meet NFPA and OSHA requirements. Self-closing model complies with Uniform Fire Code.

CERTIFICATIONS:
FM approved. Self-closing model UL listed.

Handle	Capacity	L × W × H	Weight	Mfr. No.	Cat. No.	Each
Manual Door						
With Flush-Mounted Handle	12 gal. (45.4L)	18 × 23.25 × 35" (46 × 59 × 112cm)	120 lb. (54.4kg)	891200	**19-121-852**	925.00
Self-closing Door						
With Flush-Mounted Handle	12 gal. (45.4L)	18 × 23.25 × 35" (46 × 59 × 112cm)	131 lb. (69kg)	891220	**19-121-853**	855.50

Justrite™ Flammables Undercounter Storage Cabinet

Helps to keep work area safely organized

17-985-61A

- Double-wall construction provides 1-1/2" of insulating air space to help prevent the spread of flames
- High-visibility Haz-Alert™ reflective warning labels offer added safety during power outages or fires
- Dual vents with flame arresters at top and opposite bottom allow hazardous vapors to be piped away
- Easy-closing, self-latching doors facilitate fire protection of the cabinet
- Self latch engages critical three-point latching system for protection under fire conditions
- Two self-latching manual doors
- Fusible links hold self-closing doors wide open, flush with front of cabinet for easy access and resupply; automatically release and slam doors shut at 74°C (165°F)
- Concealed self-close mechanism provides optimum storage space and obstruction-free access to contents
- SpillSlope safety shelves direct incidental spills to the back and bottom of leakproof sump
- Exterior side panel has built-in grounding connector for easy grounding
- Finished inside and out with durable lead-free powder paint
- Dual vents with flame arresters in back walls
- Kickplate (3.5 × 2.5" [8.9 × 6.4cm]) mounts flush with other cabinetry
- Leveling feet adjust to 1.13" (2.9cm) for alignment on uneven floors
- Capacity: 22 gal. (3L)
- Backed by an exclusive 10-year warranty
- Meet OSHA and NFPA requirements

ORDERING INFORMATION:
Dimensions: 22L × 35W × 35"H (56 × 89 × 89cm).

INCLUDES: One adjustable shelf

COMPLIANCE: Meets OSHA and NFPA code 30 requirements.

CERTIFICATIONS: FM approved.

Mfr. No.	Cat. No.	Each
892300	**17-985-61A**	1054.87

Justrite™ Metallic Undercounter Cabinet

Helps keep floor space free

17-154C

- Fitted with a 3.5H × 2.5"D kickplate to mount flush with other cabinetry or used without counter
- Dual vents with flash arresters are located for easy connection if ventilation is needed
- Features vent openings in back wall, one adjustable shelf and two manual or self-closing doors

ORDERING INFORMATION:
Capacity: 22 gal. (83L). Exterior dimensions:
22L × 35W × 35" H (56 × 89 × 89cm)

COMPLIANCE: Meet OSHA and NFPA requirements. 19-033-720 also complies with Uniform Fire Code.

CERTIFICATIONS: FM approved. UL listed.

NOTES: Not recommended for storage of phenol, nitric or sulfuric acid.

Door Type	Mfr. No.	Cat. No.	Each
Manual	892302	**17-154C**	1145.63
Self-Closing	892322	**19-033-720**	1286.56

Justrite™ VaporTrap™ Filter

Reduces harmful VOC vapors found inside safety cabinets

19-052-400

- Stainless steel wire mesh cartridge containing activated carbon absorbs volatile organic chemical vapors
- Cylindrical design allows 360 degree air flow for maximum surface contact
- High strength magnets offer flexible placement/repositioning anywhere within cabinet
- Date notation area on label serves as a reminder for replacement
- Variable life cycle based upon vapor types and concentrations
- Magnetized 4 × 5.5" (10.2 × 13.9cm) base for easy attachment

Dimensions	Mfr. No.	Cat. No.	Each
8.75 × 2.25" (22.2 × 5.7cm)	29916	**19-052-400**	80.10

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Eagle™ Flammables Floor Model Cabinets

Safely keep flammable liquids near work areas

- Top and bottom vents, with baffle and cap, fitted with 2" (5cm) pipe thread on sidewalls for outside venting
- Double walls of 18-gauge steel provide 1.5" (3.8cm) air space
- 2" (5cm) raised sill contains spills
- Three-point key lock
- Four adjustable leveling feet
- Adjustable galvanized steel shelves supported by four brackets hold over 500 lb. (227kg) each
- Labeled "FLAMMABLE — KEEP FIRE AWAY"

Door Choices

- Available with one or two hinged doors or with bifold door, hinged left, with piano hinge in the middle (2, 4, 12 and 16 gal. units have one door)
- Self-closing doors have fusible link that melts at 71°C (160°F), automatically closing doors
- Mechanism on two-door self-closing models ensures doors close in proper sequence

17-156D

ORDERING INFORMATION:
Extra shelves available; call your Fisher Safety Customer Service Representative for ordering information.

COMPLIANCE: Meet OSHA and NFPA Code 30 requirements.

CERTIFICATIONS: Cabinets 17-156A, B, C and D are FM approved.

Capacity	L × W × H	No. of Shelves	Weight	Mfr. No.	Cat. No.	Each
One Manual Door						
2 gal. (7.5L)	18 × 17.5 × 17.25" (46 × 45 × 44cm)	1	65 lb. (29kg)	1901	**18-998-626**	1210.00
4 gal. (15L)	18 × 17.5 × 22.25" (46 × 45 × 57cm)	1	69 lb. (31.3kg)	1904	**17-987-411**	768.00
12 gal. (45L)	18 × 23 × 35" (46 × 58 × 89cm)	1	133 lb. (60.3kg)	1925	**17-988-397**	957.50
16 gal. (61L)	18 × 23 × 44" (46 × 58 × 112cm)	1	150 lb. (68kg)	1906	**17-987-413**	1133.00
60 gal. (227L)	31.25 × 31.25 × 65" (79 × 79 × 165cm)	2	364 lb. (165.1kg)	6110	**18-998-627**	3070.00
One Self-Closing Door						
2 gal. (7.5L)	18 × 17.5 × 17.25" (46 × 45 × 44cm)	1	66 lb. (30kg)	1900	**18-998-625**	1210.00
4 gal. (15L)	18 × 17.5 × 22.5" (46 × 45 × 57cm)	1	80 lb. (36kg)	1903	**17-987-410**	910.50
12 gal. (45L)	18 × 23 × 35" (46 × 58 × 89cm)	1	135 lb. (61kg)	1924	**17-988-396**	1050.00
16 gal. (61L)	18 × 23 × 44" (46 × 58 × 112cm)	1	150 lb. (68kg)	1905	**17-987-412**	1210.00
Bifold Self-Closing Door						
30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	1	257 lb. (116.5kg)	1930	**17-156A**	1477.00
45 gal. (170L)	18 × 43 × 65" (46 × 109 × 165cm)	2	353 lb. (160.1kg)	1945	**17-156C**	1853.00
Two Manual Doors						
30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	1	257 lb. (116.5kg)	1932	**17-156B**	1346.00
45 gal. (170L)	18 × 43 × 65" (46 × 109 × 165cm)	2	353 lb. (160.1kg)	1947	**17-156D**	1666.00
60 gal. (227L)	31.25 × 31.25 × 65" (79 × 79 × 165cm)	2	354 lb. (161kg)	1962	**17-156F**	1999.00
90 gal. (340L)	65 × 43 × 34" (165 × 109 × 86cm)	2	475 lb. (216kg)	1992	**19-045-466**	2880.00
Two Self-Closing Doors						
30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	1	257 lb. (117kg)	3010	**17-156-5**	1509.00
45 gal. (170L)	18 × 43 × 65" (46 × 109 × 165cm)	2	364 lb. (165.1kg)	4510	**17-156-6**	1853.00
60 gal. (227L)	31.25 × 31.25 × 65" (79 × 79 × 165cm)	2	364 lb. (165kg)	6010	**17-987-416**	2170.00
90 gal. (340L)	34 × 43 × 65" (86 × 109 × 165cm)	2	475 lb. (215.5kg)	9010	**19-045-465**	3070.00
Two Manual Doors, With UI-50-FS Safety Cans and Funnels						
30 gal. (114L)	18 × 43 × 44" (46 × 109 × 112cm)	1	290 lb. (131.5kg)	1932SC6	**18-998-628**	3070.00
45 gal. (170L)	18 × 43 × 65" (46 × 109 × 165cm)	2	405 lb. (183.7kg)	1947SC9	**18-998-629**	3070.00
60 gal. (227L)	31.25 × 31.25 × 65" (79 × 79 × 165cm)	2	440 lb. (199.5kg)	1962SC12	**18-998-630**	3070.00

nlsu new lab start-up program

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Eagle™ Flammables Space-Saver Cabinets

Ideal for small spaces

- Only 23" (58cm) wide to fit in places other cabinets can't
- Double-wall, 18-gauge steel construction has a yellow high-gloss powder finish
- Single door attaches with a continuous piano hinge and includes a three-point keyed lock
- 2" high (5.1cm) leakproof sill keeps spills contained

INCLUDES:
Three adjustable shelves, each 14.75" deep (32.5cm)

COMPLIANCE:
Meet OSHA and NFPA Code 30 specifications. 19-038-436 meets UFC 79.

19-038-435

Capacity	L × W × H	Weight	Mfr. No.	Cat. No.	Each
Manual Door					
24 gal. (91L)	18 × 23 × 65" (46 × 58 × 165cm)	270 lb. (122.5kg)	1923	**19-038-435**	1290.00
48 gal. (182L)	34 × 23 × 65" (86 × 58 × 165cm)	370 lb. (167kg)	1946	**19-160-511**	1621.00
Self-Closing Door					
24 gal. (91L)	18 × 23 × 65" (46 × 58 × 165cm)	270 lb. (122.5kg)	2310	**19-038-436**	1364.00
48 gal. (182L)	34 × 23 × 65" (86 × 58 × 165cm)	370 lb. (167kg)	4610	**19-160-512**	1722.00

Justrite™ Mini Safety Cabinet

For safe, transport/ storage of oils, chemicals and cleaners

19-052-392

- Ideal for manufacturing facilities, amusement parks, movie sets, hotels and any recreational facility using small quantities of flammables for cleaning and maintenance
- Fire-resistant cabinet with small footprint for easy mobility on service vehicles, carts and maintenance trikes for point-of-use applications
- Features a leaktight 2" (51mm) well, flush mounted U-Loc™ handle and accepts optional padlock
- Durable steel construction with a tough powder paint finish and three-point latching system

INCLUDES:
Two keys, one adjustable shelf and three bungee cords

WARRANTY:
10 year limited

COMPLIANCE:
Meets OSHA requirements

H × W × D	Weight	Mfr. No.	Cat. No.	Each
22 × 17 × 8" (55.9 × 43.2 × 20.3cm)	43 lb. (19kg)	890200	**19-052-392**	481.50

Justrite™ Emergency Preparedness Cabinet

For protected, quick access to emergency supplies during a disaster

- Fire-resistant design tested in accordance with ASTM and NFPA time temperature curves
- Durable emergency orange powder paint finish for high visibility
- Features three-point stainless-steel bullet latching system, smooth opening/closing piano hinge and U-Loc™ handle
- GloAlert™ glow-in-the-dark labels ensure fast location during power outages
- Provides dependable storage for flashlights, radios, respirators and first aid items
- Available with installed electrical pass-through PowerPort™ connection and external power cord and 10 amp rated, 6-outlet power strip for charging walkie talkies, flashlights and equipment inside the cabinet

ORDERING INFORMATION:
D × W × H: 18 × 43 × 65 in. (45.7 × 109.2 × 165.1cm). Weight: 313 lb. (142kg).

INCLUDES: Four adjustable shelves, two keys and four adjustable leveling feet.

WARRANTY: 10 year limited

19-052-393

Description	Mfr. No.	Cat. No.	Each
Without PowerPort	860001	**19-052-393**	1339.21
With PowerPort	860002	**19-052-394**	1563.97

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Cans/Accessories

Metal

Justrite™ Galvanized-Steel Oily Waste Safety Cans

For safe disposal of oily waste, solvent cloths and wiping rags

Raised, ventilated bottom promotes air circulation, prevents spontaneous combustion.

- Rugged, lead-free galvanized-steel body with reinforced ribs
- Trilingual safety label
- Self-closing can opens easily with foot treadle

17-192B

ORDERING INFORMATION:
6 gal. (23L) safety can also available with hand lever.

CERTIFICATIONS:
FM approved. All cans UL listed.

Capacity	Color	Mfr. No.	Cat. No.	Each
With Foot-operated Cover				
6 gal. (23L)	Red	09100	**17-192A**	101.50
6 gal. (23L)	Yellow	09101	**19-812-451**	103.10
10 gal. (38L)	Red	09300	**17-192B**	115.20
10 gal. (38L)	Yellow	09301	**17-192C**	112.40
14 gal. (53L)	Red	09500	**17-192D**	127.50
21 gal. (80L)	Red	09700	**17-192E**	211.50

Justrite™ FM-Approved Biohazard Waste Container

For safe, temporary collection of biological waste

Safely segregate biohazard waste to ensure proper disposal of blood- or pathogen-contaminated laundry items and pathological and microbiological wastes.

- Features leakproof, sturdy steel construction with foot-operated, self-closing lid
- Eliminates any reason to reach into the waste area or touch the can
- Holds biohazard bag (sold separately) securely around circumference of can top
- Large biohazard label clearly identifies the contents and alerts workers

19-033-725

COMPLIANCE:
Complies with OSHA 29CFR1910.1030.

CERTIFICATIONS:
FM approved

NOTES: Not to be used for disposal of sharp items.

Capacity	Mfr. No.	Cat. No.	Each
6 gal. (23L)	05910	**19-033-725**	144.00
10 gal. (38L)	05930	**19-033-755**	171.60

Justrite™ FM-Approved Biohazard Waste Container Replacement Bags

Red liners fit both 6- and 10-gallon biohazard waste containers.

Size	Mfr. No.	Cat. No.	Pack of 100
33 × 24" (83.8 × 61cm)	05901	**19-033-712**	84.90

Nonmetallic

Eagle™ Nonmetallic Safety Cans

High-density polyethylene safety cans help reduce danger of explosion from ignition of flammable liquid vapors

Cans are rust-, corrosion- and impact-resistant. All metal fittings and flame arresters are stainless steel. Use red cans for flammables; white cans for acids and corrosives.

Type I Safety Cans

- Feature a single spout with self-closing cap, pressure-relief vent and flame arrester
- 2 qt. (2L) and 1 gal. (3.8L) sizes are oval in shape; larger sizes are round

Disposal Safety Cans

- For temporary storage of liquid waste
- Spout cap covers 4" wide (10.2cm) mouth; opens to 80° angle and can be locked open for easy filling
- Cap assembly opens automatically to vent internal vapor pressure

17-987-405B, 17-987-404E, 17-987-404D, 17-988-395

COMPLIANCE: Meet OSHA requirements.

CERTIFICATIONS: FM approved.

Capacity	Color	Mfr. No.	Cat. No.	Each
Type I Safety Cans				
3 gal. (11.4L)	White	1535	**17-987-404E**	176.80
3 gal. (11.4L)	Red	1537	**17-987-404F**	187.50
5 gal. (19L)	White	1541	**17-987-404G**	225.50
5 gal. (19L)	Red	1543	**17-987-404H**	218.00

Capacity	Color	Mfr. No.	Cat. No.	Each
Disposal Safety Cans				
3 gal. (11.4L)	White	1517	**17-987-404A**	281.00
3 gal. (11.4L)	Red	1519	**17-987-404B**	307.50
5 gal. (19L)	White	1523	**17-987-404C**	304.50
5 gal. (19L)	Red	1525	**17-987-404D**	304.50

Justrite™ Centura™ Prefabricated Quick-Disconnect Safety Disposal Cans

For continuous collection of HPLC waste flow

19-040-880 (left), 19-059-378

Polyethylene can with quick-disconnect system permits "hands-free" liquid waste accumulation for maximum protection against chemicals. Suitable for pump-fed or gravity flow HPLC waste methods.

- Allows free flow of liquid from outside source into FM-approved polyethylene disposal can
- Two fittings accommodate tubing with 0.25 to 0.375" diameter (0.6 to 1.0cm)
- Built-in pressure-relief prevents excessive pressure in extreme temperatures
- Translucent white color makes detection of liquid level easy
- Available with stainless-steel fitting with PTFE O-rings or economical polypropylene fitting with EPDM O-rings

ORDERING INFORMATION:
Tubing not supplied with containers. Contact your Fisher Safety Customer Representative at 1-800-772-6733 to order replacement stainless-steel fitting (Cat. No. 19-160-367), replacement filter for stainless-steel fittings (19-052-373), or replacement filter for polypropylene fittings (19-052-372).

Optional two-stage coalescing/carbon filters snap into the quick-disconnect fitting to minimize odors by capturing 99% of liquid particulates in gaseous vapors; available separately (19-052-373 for stainless-steel fittings and 19-052-371 for polypropylene fittings).

COMPLIANCE:
Meets OSHA and EPA requirements.

CERTIFICATIONS:
FM approved.

Capacity	Mfr. No.	Cat. No.	Each
With Stainless-Steel Fittings			
2 gal. (8L)	TF12752	**19-059-379**	800.00
5 gal. (19L)	TF12755	**19-059-378**	853.96
With Polypropylene Fittings			
1 gal. (3.8L)	12160	**19-052-376**†	341.00
2 gal. (8L)	PP12752	**19-040-880**	399.50
5 gal. (19L)	PP12755	**19-040-858**	456.50
With Stainless-Steel/Polypropylene Fittings			
2 gal. (8L)	BY12752	**19-130-2718**	591.50

† *Oval-shaped can.*

Justrite™ Nonmetallic Liquid Disposal Safety Cans

Liquid Disposal Safety Cans

Large opening and lock-open cap for easy filling/pouring

127-985-72D

- Red high-density polyethylene cans resist dents, punctures and chemicals
- Less expensive than stainless-steel cans — safely store liquids that corrode stainless- or coated-steel safety cans
- Comes with stainless-steel fittings
- Double-wall flame arrester guards against outside ignition
- Between 3 and 5psig, cap automatically vents to prevent pressure buildup

CERTIFICATIONS:
FM approved (except 17-985-72C).

Capacity	Color	Mfr. No.	Cat. No.	Each
Stainless-Steel Fittings				
2 gal. (8L)	Red	14762	**17-985-72D**	229.00
2 gal. (8L)	White	12751	**19-159-313**	185.60
5 gal. (19L)	Red	14765	**17-985-72E**	205.00
5 gal. (19L)	White	12754	**19-159-312**	174.40

Justrite™ Nonmetallic Oval Type I Safety Cans

Oval shape provides 30% more storage capacity than round model

17-177A and 17-177B

Constructed of high-density polyethylene, these cans are dent- and puncture-resistant and practically chemically inert. Less expensive than stainless-steel cans, they can be used to store liquids that will corrode stainless-steel or coated steel safety cans.

- Equipped with flame arresters to protect contents from sparks Stainless-steel hardware for acids, corrosives, or high-purity liquids
- Red color is molded in polyethylene body
- Pressure-relief mechanism prevents buildup of vapors
- Convenient trigger-spout mechanism and built-in handle for ease in dispensing and carrying

CERTIFICATIONS:
FM approved.

Capacity	Mfr. No.	Cat. No.	Each
Red			
1/2 gal. (1.9L)	14065	**17-177A**	86.10
1 gal. (3.8L)	14160	**17-177B**	92.40
White			
1 gal. (3.8L)	12162	**19-413-825**	89.80

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Justrite™ Nonmetallic Self-Close Corrosive Safety Containers

Designed to resist acids and caustics

17-985-89D

- Safely holds nonflammable corrosives
- Translucent white HDPE construction resists dents, punctures and chemicals
- Marked in liters, quarts and gallons for accurate filling and dispensing
- Flame arrester-free spout allows quick pouring; spring-close cap provides a tight seal
- Wide mouth on Cat. Nos. 17-985-89C and -89D makes filling and pouring easier
- Stainless-steel fittings

Capacity	Mfr. No.	Cat. No.	Each
1 gal. (3.8L)	12161	**17-985-73**†	78.80
2 gal. (7.6L)	12762	**17-985-89C**	194.90
2 1/2 gal. (9.5L)	12260	**17-985-89A**	146.80
5 gal. (19L)	12765	**17-985-89D**	215.00

†*Oval-shaped.*

Justrite™ HPLC Poly Manifold for Centura™ Quick-Disconnect Disposal Cans

HPLC Poly Manifold for Centura™ Quick-Disconnect Disposal Cans

For use with Justrite™ Centura Quick-Disconnect HPLC Safety Disposal Cans

19-412-603

- Enables up to six waste lines per manifold from HPLC processes to be fed into a single intake fitting
- Six 1/4-28 ports and one 3/8" NPT port plus caps for unused ports
- Tapped to accommodate 1/4-28 threads of separately available compression fittings
- Multiple manifolds may be used on a custom-designed Quick Disconnect container as long as one disconnect remains unused to permit venting
- Cat. No. 19-412-604 has a "stacker" connection enabling it to attach on top of Cat. No. 19-412-603; allows up to 12 lines to be fed into disposal can

Description	Mfr. No.	Cat. No.	Each
Manifolds			
With polypropylene quick disconnect	28178	**19-412-603**	222.50
With stainless-steel stacker connect	28179	**19-412-604**	222.50
Fittings			
For 1/16" O.D., 1/32" I.D. tubing	28188	**19-412-605**	130.30
For 1/8" O.D., 1/16" I.D. tubing	28189	**19-412-606**	130.30

Ready America™ HPLC Stack Fastener Kits

Secures HPLC stacks

11-900-002

- All kits include two countertop buckles with 3M™ VHB adhesive: 2x 2" (5.1 × 5.1cm).

Two-Stack Kit contains:

- Four equipment buckles with 3M™ VHB adhesive: 1 × 2" (2.54 × 5.1cm)
- Two coated locking straps: 12" (30.5cm)
- Four surface prep pads

Three-Stack Kit contains:

- Six equipment buckles with 3M™ VHB adhesive: 1 × 2"
- Two coated locking straps: 16" (40.6cm)
- Six surface prep pads

Four-Stack Kit contains:

- Eight equipment buckles with 3M™ VHB adhesive: 1 × 2"
- Two coated locking straps: 20" (50.8cm)
- Eight surface prep pads

Five-Stack Kit contains:

- Ten equipment buckles with 3M™ VHB adhesive: 1 × 2"
- Two coated locking straps: 24" (70cm)
- Ten surface prep pads

Six-Stack Kit contains:

- 12 equipment buckles with 3M™ VHB adhesive: 1 × 2"
- Two coated locking straps: 28" (71.8cm)
- 12 Surface prep pads

Seven-Stack Kit contains:

- 14 equipment buckles with 3M™ VHB adhesive: 1 × 2"
- Two coated locking straps: 32" (81.3cm)
- 14 surface prep pads

Eight-Stack Kit contains:

- 16 equipment buckles with 3M™ VHB adhesive: 1 × 2"
- Two coated locking straps: 36" (91.4cm)
- 16 surface prep pads

Description	Mfr. No.	Cat. No.	Price
Two-Stack Kit; Gray	RDHP2G1	**11-900-002**	22.00
Three-Stack Kit; Gray	RDHP3G1	**11-900-003**	27.00
Four-Stack Kit; Gray	RDHP4G1	**11-900-004**	32.00
Five-Stack Kit; Gray	RDHP5G1	**11-900-005**	38.00
Six-Stack Kit; Gray	RDHP6G1	**11-900-006**	43.00
Seven-Stack Kit; Gray	RDHP7G1	**11-900-007**	48.00
Eight-Stack Kit; Gray	RDHP8G1	**11-900-008**	54.00

Ready America™ LassoSTRAP Fastener Kits for Microscopes

Secure countertop and desktop equipment during an earthquake

Kit for equipment less than 25 lb. (11.3kg):

- Buckle with 3M™ VHB adhesive: 1 × 2" (2.54 × 5.1cm)
- Locking strap with D-ring: 0.75 × 30" (1.9 × 76.2cm)
- Two surface prep pads
- Instructions

11-900-009

Kit for equipment less than 50 lb. (22.7kg):

- Buckle with 3M™ VHB adhesive: 2 × 2" (5.1 × 5.1cm)
- Locking strap with D-ring: 1 × 30" (2.54 × 76.2cm)
- Two surface prep pads
- Instructions

Description	Mfr. No.	Cat. No.	Each
25 lb. Kit	RDSG1	**11-900-009**	11.00
50 lb. Kit	RDSLG1	**11-900-010**	16.00

Ready America™ Fastener Kits for Countertop Equipment

Used for countertop and desktop equipment

11-900-011

All kits come with instructions as well as two surface prep pads.

Kit for equipment less than 25 lb. (11.3kg) contains:

- Four buckles with 3M™ VHB adhesive: 1 × 2" (2.54 × 5.1cm)
- Two locking straps: 0.75 × 4" (1.9 × 10.2cm)

Kit for equipment less than 50 lb. (22.7kg) contains:

- Four buckles with 3M VHB adhesive: 2 × 2" (5.1 × 5.1cm)
- Two locking straps: 1 × 5" (2.54 × 12.7cm)

Kit for equipment less than 200 lb. (90.7kg) contains:

- Four buckles with 3M VHB adhesive: 2 × 3" (5.1 × 7.6cm)
- Two locking straps with holes: 1 × 8" (2.54 × 20.3cm)

Strap Color	Mfr. No.	Cat. No.	Each
25 lb. Kit			
Black	RDT24B1	**11-900-011**	11.00
Gray	RDT24G1	**11-900-012**	11.00
50 lb. Kit			
Black	RDT44B1	**11-900-013**	13.00
Gray	RDT44G1	**11-900-014**	13.00
200 lb. Kit			
Black	RDT64B1	**11-900-015**	23.00
Gray	RDT64G1	**11-900-016**	23.00
White	RDT64W1	**11-900-017**	23.00

Ready America™ Floor-Mounting Safety Fasteners for Large Equipment

Ideal for multi-door refrigerators, freezers, shakers, incubators and other large floor equipment

Ratchet Strap Kits are ideal for multi-door refrigerators, freezers, shakers, incubators and other large floor equipment. Corner Bracket Kit works for equipment with round or square legs as well as corners without legs.

11-900-018

Corner Bracket Kit contains:

- Stainless steel corner bracket: 0.25 × 6"
- Two each drop anchors, anchor bolts and washers: 0.38" (0.95cm)
- Instructions

All Ratchet Strap Kits contain:

- 2 × 180" (5.1cm × 4.6m) strap with floor-mounting plate
- Two each drop anchors, anchor bolts and washers: 0.38" (0.95cm)
- Instructions
- Each kit contains one strap with wide-handle ratchet and floor-mounting plate:
  - 30" Kit: 2 × 30" (76.2cm) strap
  - 60" Kit: 2 × 60" (15.2m) strap
  - 90" Kit: 2 × 90" (22.9m) strap
  - 180" Kit: 2 × 180" (45.7cm) strap

Description	Mfr. No.	Cat. No.	Each
Corner Bracket	RFCB6H1	**11-900-018**	93.00
30 in. Strap Kit	RFR30G1	**11-900-020**	65.00
60 in. Strap Kit	RFR60G1	**11-900-021**	68.00
90 in. Strap Kit	RFR90G1	**11-900-023**	70.00
180 in. Strap Kit	RFR180G1	**11-900-019**	80.00
90 in. Strap Kit with Corner Bracket	RFR90CBG1	**11-900-022**	82.00

Ready America™ Adhesive Plate Assembly for Large Countertop Equipment

Use to secure kitchen-size refrigerators, freezers and similar sized items as well as large countertop equipment

Kit contains:

- Plate with cable and 3M™ VHB adhesive: 4 × 4" (10.2cm)
- Two surface prep pads
- Instructions

REQUIRES:
Anchors

11-900-026

Description	Mfr. No.	Cat. No.	Each
Adhesive Plate Assembly	RQ4X4P1	**11-900-026**	22.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Ready America™ Flammable Cabinet Strut Fastener

Secures flammable and toxic corrosives cabinets to wall stud with industrial hook and loop to avoid penetrating cabinet with screws

Includes struts and strut straps.

11-900-028

Struts:

- White-powder coat strut: 40" (96cm)
- Two end caps
- Two each wood stud screws, metal stud screws and metal stud togglers: 0.25" (0.64cm)
- Two washers: 0.25 × 1" (0.64 × 2.54cm)
- Strut to wall instructions

Straps:

- Two strut straps with industrial Velcro™ hook and loop metal mounting bracket: 2 × 16" (5.1 × 40.6cm)
- Two each strut-washer nuts and flat washers: 0.38" (0.95cm)
- Two 16-tip Grade 5 bolts: 0.38 × 1" (0.95 × 2.54cm)
- Two surface prep pads
- Instructions

Description	Mfr. No.	Cat. No.	Each
Flammable Cabinet Strut Fastener	RW1S2X1	**11-900-028**	85.00

Ready America™ Wall Mount Strap with Side Release Buckle for Medium-Sized Equipment

Secures copiers and other medium-size equipment

Kit contains two each:

11-900-029

- Straps with steel plating, 3M™ VHB adhesive and steel buckles: 1 × 48" (2.54 × 121.9cm)
- Wood stud screws: 0.25" (0.64cm)
- Metal stud togglers with instructions: 0.25" (0.64cm)
- Metal stud screws: 0.25" (0.64cm)
- Washers: 0.25 × 1" (0.64 × 2.54cm)
- Surface prep pads
- Instructions

Strap Color	Mfr. No.	Cat. No.	Each
Black	RW1X48B21	**11-900-029**	25.00
Gray	RW1X48G21	**11-900-030**	25.00

Ready America™ Wall Straps for Carts

Cart-to-wall straps secure carts, metro racks and tubular furniture

Kit contains:

11-900-035

- Strap with D-rings: 16" (40.6cm)
- Strap with quick-disconnect buckle: 8" (20.3cm)
- Wood stud screw: 0.25" (0.64cm)
- Metal stud toggler with instructions: 0.25" (0.64cm)
- Metal stud screw: 0.25" (0.64cm)
- Washer: 0.25 × 1" (0.64 × 2.54cm)
- Instructions

Strap Color	Mfr. No.	Cat. No.	Each
Black	RWCTWB1	**11-900-035**	10.00
Gray	RWCTWG1	**11-900-036**	10.00

Ready America™ Wall-Mount Safety Straps for Large Equipment

Secures kitchen-size freezers, refrigerators, incubators, centrifuges and similar type items

Brace for earthquakes and keep equipment from toppling.

11-900-033

Kit contains two of each of the following:

- Straps with industrial Velcro™ hook and loop with side-release buckle: 2 × 48" (5.1 × 121.9cm)
- Wood stud screws: 0.25" (0.64cm)
- Metal stud togglers with instructions: 0.25" (0.64cm)
- Metal stud screws: 0.25" (0.64cm)
- Washers: 0.25 × 1" (0.64 × 2.54cm)
- Surface prep pads; instructions

Strap Color	Mfr. No.	Cat. No.	Each
Black	RW2X48B21	**11-900-033**	24.00
White	RW2X48W21	**11-900-034**	24.00

Drums and Containers

Justrite™ Bottle Jacket

Provides added protection of a polyethylene bottle without contaminating high-purity solvents

- Ideal for 4L and 1 gal. bottles
- Place a bottle in the bottom half of the jacket and rotate lid for secure containment
- Handle offers balanced pouring
- Acts as a shock absorber to minimize breakage and spills due to bumps or falls

17-985-79

O.D. x H	Mfr. No.	Cat. No.	Each
6 × 14" (15.2 × 35.6cm)	12009	**17-985-79**	32.35

Rubbermaid™ Universal Drum Dolly

For 2655 container

- Easy mobility and maneuverability of heavy loads
- All plastic, professional-grade construction resists rust, chipping and denting
- Heavy-duty wheels with swivel capabilities provide for ease of mobility
- Holds a 55-gal. drum as well as plastic container
- Dia. × H: 24.4 × 7.13" (61.9 × 18.1cm)
- Maximum Capacity: 500 lb. (227kg)

19-120-411

Mfr. No.	Cat. No.	Each
2650	**19-120-411**	225.00

Youngstown Barrel & Drum Fiber Drums

Constructed of sturdy fiberboard

- Open head drums qualify for transport of dry, nonreactive solid materials only
- Available with all-fiber construction (fiber covers) or with steel chime bands and metal cover

Capacity	DOT/UN Marking	I.H. × I.D.	Mfr. No.	Cat. No.	Each
Fiber Cover					
5 gal. (19L)	1G/X60/S	11.2 × 12.1" (28.5 × 30.7cm)	2018	**18-120-247**	27.30
12 gal. (45L)	1G/X60/S	12.5 × 22.6" (32 × 57.5cm)	2013	**18-120-246**	33.30
30 gal. (114L)	1G/Y120/S	18.5 × 25.8" (47 × 65.5cm)	1988	**18-120-245**	44.30
55 gal. (208L)	1G/Y120/S	21.5 × 35" (55 × 89cm)	1987	**18-120-244**	69.10
Metal Cover					
15 gal. (57L)	1G/Y72/S	18.5 × 15.5" (47 × 39.4cm)	1985	**19-120-010**	58.00
30 gal. (114L)	1G/X106/S	18.5 × 35.2" (47 × 89.4cm)	1975	**18-943B**	104.40
55 gal. (208L)	1G/Y260/S	21.5 × 38.2" (54.5 × 97cm)	1948	**18-943A**	122.90

With Lock Rims, L to R: 18-943B, 19-120-010, 18-943A (back), 18-943C

Youngstown Barrel & Drum Steel Drums

For transport of hazardous solids or liquids

With cold-rolled carbon-steel construction, steel drums are qualified for safe transport of noncorrosive hazardous liquids or solids.

Capacity	DOT/UN Marking	Description†	Mfr. No.	Cat. No.	Each
Steel Drums					
30 gal. (114L)	UN 1A1/Y1.8/250	Black; 20 gauge; unlined; with 2" and 0.75" bungs; TH	457	**18-930A**	247.00
30 gal. (114L)	UN Y1.8/250	Black; 20/18 gauge; lined; 2" and 0.75" Tri-sure bungs; TH	457-L	**19-130-4687**	139.50
30 gal. (114L)	UN Y1.5/100 and X250/S	Black; 18 gauge; unlined; plain cover; plain body; bolt ring; OH	445	**18-930C**	278.50
30 gal. (114L)	UN 1A2/Y1.5/150 and X250/S	Black/white; 18 gauge; lined; plain cover; bolt ring; OH	445-L	**19-130-4689**	148.90
55 gal. (208L)	UN 1A1/X1.8/300	Black; 20/18 gauge; lined; 2" and 0.75" Tri-sure bungs; TH	345-L	**19-130-4848**	143.90
55 gal. (208L)	UN 1A2/Y1.8/150 + X400S	Black; 18/16 gauge; lined; plain cover; plain body; bolt ring; OH	194-L	**19-130-4849**	182.10
55 gal. (208L)	UN 1A2/Y1.6/150 & X400/S	Black/white; 18/16 gauge; unlined; plain body; 2" and 0.75" bungs; OH	220	**19-130-4692**	172.60
55 gal. (208L)	UN 1A2/Y1.6/150 & X400/S	Black; Unlined; plain cover; plain body; bolt ring; OH	194	**18-929B**	360.50
55 gal. (208L)	UN 1A1/X1.8/300	Black; 20/18 gauge; unlined; with 2" and 0.75" Tri-sure bungs;TH	345	**18-929C**	278.50
55 gal. (208L)	UN 1A1/X1.8/300	Black; 20/18 gauge; unlined; with 2" and 0.75" Tri-sure bungs;TH; Wrapped	345-W	**19-171-252**	138.10

† OH = open head; TH = tight head

- Salvage drum designed to overpack and ship damaged and/or leaking drums
- Also qualify for direct containment of hazardous solids

Front: 18-930A and 18-930C
Back: 18-929B and 18-929C

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Youngstown Barrel & Drum Plastic Containers

High-density polyethylene containers for transport of hazardous solids or liquids

- Made of chemical-resistant high-density polyethylene
- Tight-head drums for transport of hazardous liquids
- Open-head drums for transport of hazardous solids
- 19-120-008 and 19-120-004 feature flat sides for easier storage and stacking

L to R: 19-120-008, 19-120-004, 19-120-002

Description	BIO DOT or UN Marking	I.H. × I.D.	Mfr. No.	Cat. No.	Each
White; OH†; with screw lid	UN 1H2/Y15/S	24 × 27.1cm	2377	**19-120-018**	34.30
Blue body/black lid; Euro style; OH	UN 3H2/Y90/S	28 × 61cm	1746	**19-120-004**	103.30
Blue body/black lid; Euro style; OH	UN 3H2/Y51/S	28 × 47.8cm	1778	**19-120-008**	84.90
Blue; side lever lock ring; plain cover; OH	UN 1H2/Y165/S	34.3 × 63.5cm	1720	**18-940**	125.10
Black; Long skirt cover w/gasket; OH	UN 1H2/Y1.5/30 and Y30/S	27.9 × 37.1cm	2400	**18-941**	36.85
White; 70mm screw cap; TH†	UN 1H1/Y1.8/100	29.2 × 37.6cm	2520	**18-999-2149**	44.25
White; with screw lid; spout; liquid rated; OH	UN 1H2/Y30/S	30.5 × 40.1cm	2378	**19-130-4695**	35.45
Blue; lever lock ring; nested; OH	UN 1H2/X120/S and Y180/S	48.2 × 67.1cm	1556	**19-130-4850**	109.90
Drum, Plastic, 55 gal.,TH, Natural	UN 1H1/Y1.9/100	58.3 × 87.5cm	1269-M	**19-058-095**	122.60
Drum, 55 gal.; Blue; Tight Head	UN Y1.9/100	58.3 × 87.5cm	1295-M	**19-058-096**	119.80
Drum, Plastic, 30 gal.,TH, Natural	UN Y1.8/100	47.6 × 73.0cm	1394-M	**19-058-097**	111.40
Drum. Plastic, 30 gal., OH, Blue	UN 1H1/Y1.8/100	47.6 × 73.0cm	1395-M	**19-058-098**	111.50
Drum, Plastic 15 gal., TH, Tight Head; Blue	UN 1H1/Y1.8/100	35.5 × 65.8cm	1420-M	**19-058-099**	62.70
Drum, Plastic 15 gal., TH, Tight Head, Natural	UN 1H1/Y1.8/100	35.5 × 65.8cm	1222-M	**19-058-100**	60.90

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

Eye Protection

Spectacles

Fisherbrand® 200 Series Spectacles

Economical, lightweight protection

19-130-2088

- One-piece lens provides a full and unobstructed field of vision
- Absorbs >99.9% of harmful UV light
- Molded-in sideshields and browguards
- Adjustable spatula temples

COMPLIANCE: Meet ANSI™ Z87.1-2010 standards.

CERTIFICATIONS: CSA approved

Frame Color	Cat. No.	Pack of 12	Case of 10 Pk.
Black	**19-130-2088**	41.87	351.41
Blue	**19-130-2089**	41.87	351.41

Fisherbrand® Contempo Spectacles

Offer single-lens styling with a dual-lens look

19-130-2093

- Polycarbonate, high-visibility lens absorbs >99.9% of harmful UV light and includes a permanent antifog coating
- Wraparound frame with sideshields and browguard
- Adjustable temple lengths
- Lightweight

COMPLIANCE: Meet ANSI™ Z87.1-2010 standards.

Lens Tint	Cat. No.	Pack of 12	Case of 10 Pk.
Black Frame			
Clear	**19-130-2092**	91.97	799.44
Gray	**19-130-2093**	100.09	869.98
Blue Frame			
Clear	**19-130-2094**	91.97	799.44

Fisherbrand® Racer Series Crew Chief Eyewear

Exceptional protection and style at an affordable price

19-042-1019

- 8-base curve, wraparound; scratch-resistant, polycarbonate lenses; block 99.9% of harmful UV radiation
- True dual-lens styling makes this a fashionable choice
- A soft nose bridge and rubber-tipped side arms offer a comfortable grip
- Choose from black nylon frames

COMPLIANCE: Meets ANSI™ Z87.1-2010 requirements.

Lens Tint	Cat. No.	Pack of 12	Case of 10 Pk.
Black Frame			
Clear	**19-042-1015**	129.99	1161.11
Gray	**19-042-1017**	126.01	1095.70
Mirror	**19-042-1016**	140.75	1257.85
Nickel-Silver Frame			
Clear	**19-042-1018**	129.99	1161.11
Gray	**19-042-1019**	129.99	1161.11

Fisherbrand® Racer Series Qualifier Eyewear

Offers exceptional protection and style at an affordable price.

19-042-1000

- 8-base curve, wraparound; scratch-resistant, polycarbonate lenses; block 99.9% of harmful UV radiation
- Flared single-lens design provides sleek protection
- Soft nose bridge and bayonet-style side arms grip lightly but firmly for a comfortable, confident fit
- Black nylon frames

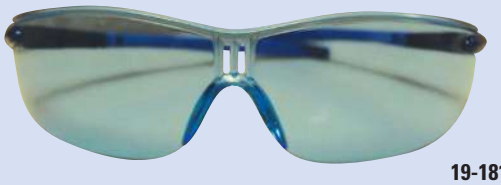
COMPLIANCE: Meet ANSI™ Z87.1-2010 standards.

Lens Tint	Cat. No.	Pack of	Case of 10 Pack
Black Frame			
Clear	**19-042-1000**	12/83.68	727.06
Gray	**19-042-1001**	12/83.68	727.06
Mirror	**19-042-1002**	12/96.75	841.87
Red Frame			
Clear	**19-042-1003**	12/83.68	727.06
Gray	**19-042-1004**	12/97.40	686.68

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Racer Series Qualifier Sport Eyewear



19-181-540

- 8-base curve, wraparound; scratch-resistant, polycarbonate lenses; block 99.9% of harmful UV radiation
- Frameless single lens design
- Soft nose bridge and temples to grip the face lightly but firmly
- Blue lens commonly used for indoor applications with an excessive amount of yellow or sodium vapor light
- Gray lens minimizes outdoor sunlight and glare
- Clear lens is excellent for most indoor applications

COMPLIANCE:
Meet ANSI™ Z87.1-2010 standards.

Lens Tint	Temple/Frame	Cat. No.	Pack of 12	Case of 10 Pk.
Blue	Blue/Blue	**19-181-540**	84.33	746.28
Clear	Blue/Black	**19-181-541**	129.99	746.28
Gray	Silver/Black	**19-181-542**	62.00	746.28

Fisherbrand® Racer Series Top Fuel Eyewear

Exceptional protection and style at an affordable price

19-042-1009

- 8-base curve, wraparound; scratch-resistant, polycarbonate lenses; block 99.9% of harmful UV radiation
- Features a single-lens design with a sporty, dual-lens look
- Nose bridge and bayonet-style side arms grip for a comfortable, confident fit

COMPLIANCE:
Meet ANSI™ Z87.1-2010 standards.

Lens Tint	Cat. No.	Pack of 12	Case of 10 Pk.
Black Frame			
Clear	**19-042-1005**	85.51	742.97
Gray	**19-042-1006**	89.50	775.00
Mirror	**19-042-1007**	93.69	814.17
Blue Frame			
Clear	**19-042-1008**	85.51	742.97
Gray	**19-042-1009**	85.51	742.97

Fisherbrand® Racer Series Vortex Eyewear

Exceptional protection and style at an affordable price

19-042-1010

- 8-base curve, wraparound, scratch resistant, polycarbonate lenses block 99.9% of harmful UV radiation
- High-visibility unilens provides maximum field of vision
- A soft nose bridge and rubber-tipped side arms offer a comfortable grip

COMPLIANCE: Meet ANSI™ Z87.1-2010 standards.

Lens Tint	Cat. No.	Pack of	Case of 10 Pack
Black Frame			
Clear	**19-042-1010**	12/130.01	1161.26
Gray	**19-042-1011**	12/130.01	1161.26
Silver Frame			
Clear	**19-042-1012**	12/130.01	1111.49
Gray	**19-042-1013**	12/25.78	257.77
Mirror	**19-042-1014**	12/145.81	1302.39

Fisherbrand® Siteliner Spectacles

Unilens design offers wide field of vision and exceptional clarity

19-130-2097

- Lightweight, impact-resistant nylon frames
- One-piece, clear hardcoat polycarbonate lens for maximum protection
- 8-base curve, wraparound; scratch-resistant, polycarbonate lenses; block 99.9% of harmful UV radiation
- Molded-in sideshields and browguards for added protection against UV, dust and flying particles
- Adjustable temples and lens inclination

COMPLIANCE:
Meet ANSI™ Z87.1-2010 standards.

Frame Color	Cat. No.	Pack of 12	Case of 10 Pk.
Blue	**19-130-2095**	100.37	872.33
Black	**19-130-2096**	100.37	872.33
Red, White and Black	**19-130-2097**	100.37	872.33

Uvex™ Genesis™ Protective Spectacles

Three-position ratchet lens inclination system and adjustable temples enable wearer to customize fit

- Impact-resistant polycarbonate lenses block >99.9% of harmful UVA and UVB radiation
- Ventilation channel between frame and lens prevents moisture buildup
- Nose bridge is covered with small, ultrasoft "fingers" that hug the nose for improved fit and comfort
- Soft elastomer browguard cushions all points of contact with face

Uvextreme™ Anti-Fog Coating (XTR)

- Permanently bonded to lens
- Absorbs 99.9% of UV radiation
- Anti-scratch and -static
- Will not wear after repeated cleanings

Ultra-dura™ Hard Coat (UD)

- Permanently bonded to lens
- Scratch- and chemical-resistant

WARRANTY:
Lifetime frame guarantee

COMPLIANCE:
Exceed ANSI™ Z87.1-2010 and CSA Z94.3 standards. Meet stringent military V_0 ballistic impact requirements.

19-040-168

Lens Tint	Mfr. No.	Cat. No.	Each	Pack of 10
Black Frame				
Clear UD	S3200	**19-040-143**	17.29	145.40
Clear DS	S3200D	**17-377-417**	18.69	----
Clear XTR	S3200X	**19-040-144**	18.61	156.70
Brown UD	S3201	**19-040-145**	19.04	160.30
Brown XTR	S3201X	**19-040-146**	20.40	171.20
Amber UD	S3202	**19-040-147**	19.04	160.30
Amber XTR	S3202X	**19-820-987**	16.75	----
Gold Mirror UD	S3203	**19-040-151**	21.65	182.00
SCT-Reflect 50	S3204	**19-040-152**	21.65	182.00
SCT-Gray XTR	S3205X	**19-134-920**	20.40	171.20
Shade 2.0 Infra-dura UD	S3206	**19-003-282**	23.46	213.21
Shade 3.0 Infra-dura UD	S3207	**19-003-283**	26.10	219.50
Shade 5.0 Infra-dura UD	S3208	**19-003-284**	28.15	238.00
SCT-Low IR UD	S3209	**19-134-921**	19.90	167.30
Red XTR	S3210X	**19-040-190**	24.50	205.50
Blue XTR	S3211X	**19-040-191**	20.40	171.20
Gray XTR	S3212X	**19-820-988**	16.75	----
50% Gray XTR	S3213X	**19-073-200**	12.00	105.00
Earth Frame				
Clear UD	S3220	**19-040-154**	17.29	145.40
Clear XTR	S3220X	**19-040-155**	18.61	156.70
Brown UD	S3221	**19-040-156**	19.00	160.00
Brown XTR	S3221X	**19-040-157**	20.40	171.20
Amber UD	S3222	**19-040-158**	17.52	153.44
Gold Mirror UD	S3223	**19-040-159**	21.65	182.00
Mirror UD	S3224	**19-040-160**	18.29	174.30
Vapor Blue Frame				
Clear UD	S3240	**19-040-168**	17.29	145.40
Clear XTR	S3240X	**19-040-169**	18.61	156.70
Brown UD	S3241	**19-040-170**	14.97	136.08
Brown XTR	S3241X	**19-040-171**	18.44	155.00
Amber UD	S3242	**19-040-172**	19.04	160.30
Gold Mirror UD	S3243	**19-040-173**	21.65	182.00
Mirror UD	S3244	**19-040-174**	21.65	182.00
Red, White and Blue Frame				
Clear UD	S3260	**19-120-1186**	17.29	145.40
Clear XTR	S3260X	**19-120-1187**	18.61	156.70
Gold Mirror UD	S3263	**19-120-1183**	21.30	210.50
Mercury Red Frame				
Clear UD	S3600	**17-377-423**	14.23	----
Mirror UD	S3244	**17-377-426**	17.82	----

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Uvex™ PrecisionPro™ Eyewear

Ideal for quality control, inspection, technical applications, lab work, aerospace, fine maintenance and mechanics

18-813-458

- Specialized, task-specific SCT-Spectrum Control Technology lens tints optimize lighting and enhance visual perception
- FlexFit wire core temples bend and flex for a customizable, full-comfort fit
- FlexFit nosepiece conforms to virtually any nasal profile and provides a contoured, non-slip fit
- Ratcheting temples enable wearer to adjust lens inclination angle to fit perfectly above cheekbones
- Exceptional peripheral vision and coverage
- Supra-Dura™ anti-scratch coating makes lenses last longer

COMPLIANCE:
Exceeds ANSI™ Z87.1-2010.

Description	Mfr. No.	Cat. No.	Each
Clear SD	SX0200	**18-813-457**	13.20
Amber XTR	SX0202	**18-813-458**	14.55
SCT-Low IR SD	SX0209	**18-813-459**	15.20
SCT-Vermillion SD	SX0210X	**18-813-460**	15.52
SCT-Blue XTR	SX0211X	**18-813-461**	15.52
50% Gray XTR	SX0213X	**18-813-462**	15.52
Blue Mist SD	SX0214	**18-813-463**	15.52

Uvex™ Astrospec 3000™ Spectacles with Spatula Temples

COMPLIANCE:
Meet ANSI™ Z87.1-2010 and CSA Z94.1-1999 standards.

17-985-30A

Description	Mfr. No.	Cat. No.	Each	Pack of 10
Black Frame				
Clear UD	S135	**17-985-30A**	14.82	124.60
Gray XTR	S136C	**19-003-146**	15.26	133.78
Clear XTR	S135C	**19-025-318**	16.17	136.00
Light Gray UD	S1360	**19-003-281**	15.26	133.78
Gray UD	S136	**17-985-31A**	15.26	133.78
SCT Gray UD	S1361	**19-067-603**	15.26	133.78
Amber UD	S145	**17-985-32A**	14.45	122.83
Silver Mirror UD	S137	**17-985-33A**	16.00	135.00
Red XTR	S1362C	**19-003-269**	17.96	151.10
5.0 IR UD	S1112	**19-079-419**	24.15	211.34
Blue Frame				
Clear UD	S129	**17-985-30B**	14.82	124.60
Clear XTR	S129C	**19-025-312**	16.17	136.00
Gray UD	S130	**17-985-31B**	16.58	139.60
Gray XTR	S130C	**19-820-969**	17.50	142.00

Uvex™ Astrospec 3000™ Slim Spectacles

Smaller frame profile fits employees with slender faces

18-610C

- Smaller frame size with adjustable lens inclination and temple length provides a custom fit for slim faces
- Polycarbonate browguard and sideshields offer added protection against UV, dust and flying particles

Uvextreme™ Anti-Fog Coating (XTR)

- Permanently bonded to lens
- Absorbs 99.9% of UV radiation
- Anti-scratch and -static
- Will not wear after repeated cleanings

Ultra-dura™ Hard Coat (UD)

- Permanently bonded to lens
- Scratch- and chemical-resistant

ORDERING INFORMATION:
Weight: 9.16 oz. (33g).

COMPLIANCE:
Meet ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Lens Tint	Mfr. No.	Cat. No.	Each	Pack of 10
Black Frame				
Clear UD	S2700	**18-610A**	14.82	124.60
Clear XTR	S2700C	**18-610B**	16.17	136.00
Gray UD	S2701	**18-610C**	16.58	139.60
Gray XTR	S2701C	**18-610D**	----	195.50
Blue Frame				
Clear UD	S2710	**18-610M**	14.82	119.10
Clear XTR	S2710C	**18-610N**	16.17	136.00
Gray UD	S2711	**18-610P**	17.00	141.00
Red, White and Blue Frame				
Clear UD	S2730	**18-611C**	15.24	128.30
Clear XTR	S2730C	**18-611D**	16.58	139.60
Gray UD	S2731	**18-611E**	17.00	142.00

DID YOU KNOW...

For more than a century, Fisher Safety has been helping customers in various industries to protect what matters most at their facilities. Companies worldwide rely on Fisher Safety to provide tailored end-to-end solutions for their facilities. Serving the customer has always been Fisher Safety's focus, and we continue to be driven by putting the customer first.

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North™ Adaptec™ Safety Glasses

Eyewear to fit faces of all shapes and sizes

Available in three sizes, six lens tints and two frame colors

17-986-719

- Adjustable nose bridge centers eyes to reduce fatigue
- Self-adjusting nose pads provde greater comfort, contact and stability
- Vented cushioned frame allows optimum air circulation to reduce fogging
- Temple hinge ratchets to seven positions — 30° of adjustment — to angle lens angle for optimal eye protection
- Temple design adjusts tension for personal comfort
- 99.9% UV protection
- Replaceable lenses

COMPLIANCE: Meets ANSI™ Z87.1-2010 and CSA Z94.3 standards

Frame Color	Lens Tint	Mfr. No.	Cat. No.	Each	Pack of 10
Regular Size					
Dark-blue	Clear	T5900LBL	**17-986-711**	16.56	146.60
Translucent-black	Clear	T5900LTK	**17-986-712**	16.56	146.60
Dark-blue	Smoke	T5900LBLS	**17-986-713**	17.28	152.80
Translucent-black	Smoke	T5900LTKS	**17-986-714**	18.01	159.20
Translucent-black	Amber	T5900LTKA	**17-986-715**	18.01	159.20
Translucent-black	I/O mirror	T5900LTKTCG	**17-986-716**	19.81	175.30
Translucent-black	IR shade 3.0	T5900LTK3.0	**17-986-717**	29.50	262.00
Translucent-black	IR shade 5.0	T5900LTK5.0	**17-986-718**	29.50	262.00
Narrow Size					
Dark-blue	Clear	T5900NBL	**17-986-719**	16.56	146.60
Translucent-black	Clear	T5900NTK	**17-986-720**	16.56	146.60
Dark-blue	Smoke	T5900NBLS	**17-986-721**	18.01	159.20
Translucent-black	Smoke	T5900NTKS	**17-986-722**	17.28	152.80
Translucent-black	Amber	T5900NTKA	**17-986-723**	18.01	159.20
Translucent-black	I/O mirror	T5900NTKTCG	**17-986-724**	19.01	168.10
Translucent-black	IR shade 3.0	T5900NTK3.0	**17-986-725**	29.50	262.00
Translucent-black	IR shade 5.0	T5900NTK5.0	**17-986-726**	29.50	262.00
Wide Size					
Dark-blue	Clear	T5900WBL	**17-986-727**	16.56	146.60
Translucent-black	Clear	T5900WTK	**17-986-728**	16.56	146.60
Dark-blue	Smoke	T5900WBLS	**17-986-729**	17.28	152.80
Translucent-black	Smoke	T5900WTKS	**17-986-730**	17.28	152.80
Translucent-black	Amber	T5900WTKA	**17-986-731**	17.28	152.80
Translucent-black	I/O mirror	T5900WTKTCG	**17-986-732**	19.01	168.10
Translucent-black	IR shade 3.0	T5900WTK3.0	**17-986-733**	29.50	262.00
Translucent-black	IR shade 5.0	T5900WTK5.0	**17-986-734**	29.50	262.00

North™ A900 Series Safety Eyewear

Ultra-lightweight eyewear features superior style

19-160-1200

- Sporty, 8-base wraparound dual lens provides style, comfort and protection
- Temples with padded inserts offer a comfortable fit
- Available with scratch-resistant hardcoat or Fog-Ban™ antifog coating
- Non-slip rubber nosepiece
- Black frames

COMPLIANCE: Meets ANSI™ Z87.1-2010 standards.

Lens Tint	Lens Coating	Mfr. No.	Cat. No.	Each
Clear	Hardcoat	A900	**19-160-1200**	7.93
Clear	Fog-Ban Antifog	A901	**19-160-1201**	9.36
Gray	Hardcoat	A902	**19-160-1202**	8.98
Gray	Fog-Ban Antifog	A903	**19-160-1203**	10.39
Silver Mirror	Hardcoat	A904	**19-160-1204**	12.07

North™ A700 Series Spectacles

Sporty styling provides fashionable fit for the everyday wearer

19-160-0217

- 9-base polycarbonate hardcoated lenses provide 180° field of distortion-free vision; block 99.9% UV
- Lightweight design with sport temples and soft temple-tip pads for secure, wraparound fit
- Molded universal nose bridge for comfortable fit

COMPLIANCE: Meet or exceed ANSI™ Z87.1-2010 standards.

Lens Tint	Lens Coating	Mfr. No.	Cat. No.	Each	Pack of 10
Clear Frame					
Clear	Hardcoat	A700	**19-160-0217**	5.21	43.75
Clear	Fog-Ban™ Antifog	A705	**19-160-0222**	6.85	57.40
Amber	Hardcoat	A702	**19-160-0219**	5.76	48.35
Gray Frame					
Gray	Hardcoat	A701	**19-160-0218**	5.76	48.35
Blue Mirror	Hardcoat	A703	**19-160-0220**	----	80.60
I/O Silver Mirror	Hardcoat	A704	**19-160-0221**	8.31	66.10

North™ A400 Series Spectacles

Sporty, lightweight spectacles with one-piece wraparound lens

19-053-701A

- Single lens and frame made of impact-resistant polycarbonate
- Comfortable, wraparound design provides excellent peripheral vision protection without the need for sideshields
- Feature antifog coating

COMPLIANCE: Meet ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Lens Tint	Mfr. No.	Cat. No.	Each	Case of 200
Clear Frame				
Clear	A400AF	**19-053-701A**	5.92	1017.00
Gray Frame				
Gray	A401AF	**19-053-701B**	9.25	1550.00
Silver Mirror	A403AF	**19-053-701C**	11.32	1905.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

North™ W-Series Safety Eyewear

Narrower across the front, shorter at the temple and slimmer in the nose bridge

Left to right: 17-377-430, 17-377-429, 17-377-434

Smaller sizing, modern designs and updated styles promote compliance.

- Protective wraparound design with 8- and 9-base curve lenses for the most secure, protective fit
- Smooth temples with optical curve for all-day wear
- W100 Series features adjustable nosepiece for added comfort
- Available with scratch-resistant hardcoat or Fog-Ban™ antifog coating

COMPLIANCE: Meets ANSI™ Z87.1-2010 standard.

Lens Tint	Lens Coating	Mfr. No.	Cat. No.	Each
Clear Frosted Frame				
Clear	Hardcoat	W100	**17-377-427**	13.79
Clear	Fog-Ban Antifog	W101	**17-377-428**	14.97
I/O Silver Mirror	Hardcoat	W103	**17-377-430**	16.18
Brown Frosted Frame				
Espresso	Hardcoat	W102	**17-377-429**	15.65
Dusty Rose Frame				
Clear	Hardcoat	W200	**17-377-431**	6.35
Clear	Fog-Ban Antifog	W201	**17-377-432**	7.32
Silver Mirror	Hardcoat	W202	**17-377-433**	9.93
TSR Gray	Hardcoat	W203	**17-377-434**	6.97
Tortoise Shell Frame				
Clear	Hardcoat	W300	**17-377-437**	10.13
Espresso	Hardcoat	W301	**17-377-435**	12.14
Autumn Rose Silver Mirror	Hardcoat	W302	**17-377-436**	15.73

3M™ SecureFit™ Protective Eyewear

Pressure Diffusion Temple Technology that helps diffuse pressure over the ear to enhance frame comfort

17-623-700

- Need to stock multiple frame sizes at work sites eliminated by self-adjusting feature
- Secure, snug fit prevents slippage even during motion
- Anti-fog coating ensures moisture free lenses in hot and humid conditions
- Anti-scratch coating protects lenses from scratches, nicks and scrapes
- Polycarbonate lenses absorb 99.9% UVA and UVB up to 380nm

COMPLIANCE: Meet the requirements of CSA Z94.3 and ANSI™ Z87.1-2010.

ALERTS: The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Lens Color	Mfr. No.	Cat. No.	Each
Antifog lens coating			
Amber	SF203AF	**17-623-702**	4.88
Clear	SF201AF	**17-623-700**	4.55
Gray	SF202AF	**17-623-701**	4.88
Anti-scratch lens coating			
Amber	SF203AS	**17-623-705**	4.21
Clear	SF201AS	**17-623-703**	3.87
Gray	SF202AS	**17-623-704**	4.21

3M™ Virtua™ Eyewear

Lightweight, comfortable protection

19-121-277

- Polycarbonate lens absorbs 99.9% of UV
- Choice of hardcoat
- Sleek, 9.5-base lens wraps for superior protection and unobstructed view
- Contoured flexible temples for comfortable fit
- Weigh less than one ounce

ORDERING INFORMATION: Weight: <1 oz.

COMPLIANCE: Meets ANSI™ Z87.1-2010 standards.

ALERTS: The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Lens Tint	Temple Color	Mfr. No.	Cat. No.	Each	Pack of
Hardcoat Lens					
Clear	Clear	11326-00000-100	**19-121-275**	3.64	100/183.15
Gray	Gray	11327-00000-20	**19-121-276**	4.77	20/83.90
I/O Mirror	Clear	11328-00000-20	**19-121-279**	6.89	20/121.10
I/O Gray	Gray	11517-00000-20	**19-810-002**	5.29	20/93.20
Blue Mirror	Blue Mirror	11331-00000-20	**19-130-0100**	----	20/34.00
Antifog Lens					
Clear	Clear	11329-00000-100	**19-121-277**	4.58	100/178.51
Gray	Gray	11330-00000-20	**19-121-278**	8.83	20/155.20
I/O Gray	Gray	11516-00000-20	**19-810-001**	6.80	20/119.60
Uncoated Lens					
Clear	Clear	11228-00000-100	**19-047-295**	----	100/253.50

3M™ Virtua™ Sport Eyewear

Sport styling with maximum protection

- Polycarbonate lens absorbs 99.9% UV
- 9-base curve lens for wrap and front/side coverage
- Sleek unisex styling in a comfortable, light polycarbonate frame

19-810-010

COMPLIANCE:
Meets ANSI™ Z87.1-2010 and CSA Z94.3-2010 standards.

ALERTS: The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Lens Tint	Temple Color	Mfr. No.	Cat. No.	Each	Pack of 20
Hardcoat Lens					
Clear	Clear	11385-00000-20	**19-130-3912**	----	75.50
Amber	Amber	11545-00000-20	**19-810-011**	5.03	88.50
I/O Gray	Gray	11743-00000	**19-810-007**	10.13	178.40
Blue	Blue	11543-00000-20	**19-810-009**	5.03	88.50
Antifog Lens					
Clear	Clear	11384-00000-20	**19-130-3911**	----	91.90
Gray	Gray	11386-00000-20	**19-130-3913**	----	98.50
Amber	Amber	11544-00000-20	**19-810-010**	6.94	122.00
I/O Gray	Gray	11742-00000	**19-810-006**	5.88	103.30
Blue	Blue	11542-00000-20	**19-810-008**	6.94	122.00
Uncoated Lens					
I/O Mirror	Clear	11388-00000-20	**19-130-3915**	----	104.90

Uvex™ Astro OTG 3001™ Spectacles

Over-the-glasses style

18-029

- Patented adjustable lens inclination and adjustable temple length offer one-size-fits-all flexibility; Duoflex™ temples have soft comfort cushions for the sensitive mastoid area behind the ear
- Lightweight, impact-resistant nylon frames feature polycarbonate sideshields and browguard for protection against UV, dust and flying particles
- Clear polycarbonate lenses with Ultradura™ hardcoat (UD) that resists scratches and absorbs 99.9% of UV radiation up to 385nm

Uvextreme™ Anti-Fog Coating (XTR)

- Permanently bonded to lens
- Absorbs 99.9% of UV radiation
- Anti-scratch and -static
- Will not wear after repeated cleanings

Ultra-dura™ Hard Coat (UD)

- Permanently bonded to lens
- Scratch- and chemical-resistant

ORDERING INFORMATION:
Customization with a company name, logo or department is available. For details, call your Fisher Scientific Customer Service Representative at **1-800-772-6733.**

COMPLIANCE:
Meet ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Lens Tint	Mfr. No.	Cat. No.	Each	Pack of 10
Black Frame				
Clear	S2500	**18-029**	18.25	153.40
Clear	S2500C	**19-084889**	19.58	164.60
Gray	S2504	**18-094A**	20.05	168.40
Gray	S2504C	**19-084-890**	21.40	179.70
Gray	S2506	**19-820-977**	17.23	----
3.0 IR	S2508	**19-039-134**	27.15	229.50
5.0 IR	S2509	**18-560B**	29.35	248.00
Blue Frame				
Clear	S2510	**18-028**	18.25	153.40
Clear	S2510C	**19-084-892**	19.58	164.60
Gray	S2514	**18-094B**	----	167.90
Red, White and Blue Frame				
Clear	S2530	**18-031**	18.71	157.40
Clear	S2530C	**19-084-781**	20.05	168.40
Gray	S2534	**18-094D**	17.15	163.40
Gray	S2534C	**19-084-901**	18.50	175.00
Gray	S2536	**19-820-978**	----	175.80

Spectacles Visitor

Fisherbrand® Visitorspec Spectacles

Ideal for protecting visitors in industrial or medical settings.

Economical safety spectacles available with coated or uncoated lens.

19-130-2090

- 100% impact-resistant polycarbonate wraparound unilens design with blue temples
- Clear lens absorbs >99.9% of harmful UV light

COMPLIANCE:
Meet ANSI™ Z87.1-2010 standards.

Lens Coating	Cat. No.	Pack of 12	Case of 10 Pk.
Uncoated	**19-130-2090**	34.74	291.55
Coated	**19-130-2091**	72.38	629.22

3M™ Tour-Guard™ III Visitor's Eyewear

Economical protection for visitors

17-989-161

- High-impact polycarbonate construction
- Integral sideshields provide wraparound protection
- Large lens fits comfortably — even over prescription eyewear
- Contoured nasal design for a universal fit
- Spatula temples for facial comfort

ORDERING INFORMATION:
Available in bulk quantities or in handy, ready-to-use wall dispensers.

COMPLIANCE:
Meets ANSI™ Z87.1-2010 standards.

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Packaging	Mfr. No.	Cat. No.	Pack of	Case of
Standard Frame				
Dispenser	41110-00000-100	**17-989-161**	20/68.60	5 Pk./301.00
Polybag	41120-00000-100	**17-989-162**	1/3.17	100/273.00
Small Frame				
Dispenser	41200-00000-100	**18-999-555**	20/61.30	5 Pk./269.00
Polybag	41210-00000-100	**18-999-556**	----	100/265.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Goggles

Fisherbrand® Chemical Splash and Impact Goggles

Lens coated to minimize scratching and fogging

19-181-504

- Built for comfortable protection with a soft, flexible PVC body that conforms to facial contours
- Large frames fit over most prescription eyewear
- Coated, clear polycarbonate lens resists impact, scratching and fogging
- Headstrap easily adjusts for a custom fit
- Impact Goggles: Protect eyes from dust, mist and other airborne particles; perforations on goggle top and sides provide direct ventilation
- Chemical-Splash Goggles: Resist a wide range of chemicals and feature indirect ventilation to direct airflow over the lens

COMPLIANCE:
Meet ANSI™ Z87.1-2010 and CSA standards.

Description	Cat. No.	Each	Pack of 12
Impact	**19-181-503**	8.64	86.43
Chemical Splash	**19-181-504**	9.42	94.19

Safety Choice™ Economy Goggles

Affordable goggles in impact and chemical-splash styles

- Clear polycarbonate lens
- Soft, flexible PVC body molds to facial contours for a comfortable fit
- Adjustable headstrap ensures custom fit

19-181-502

Impact Goggles

- Shield eyes from dust, mist and other airborne particles
- Direct vents on goggle top and sides

Chemical-Splash Goggles

- Resist a broad range of chemicals
- Circular vents allow air to flow freely through goggle body

COMPLIANCE:
Meet ANSI™ Z87.1-2010 and CSA standards.

Description	Cat. No.	Each	Pack of 12
Impact	**19-181-501**	7.34	73.41
Chemical Splash	**19-181-502**	6.79	67.91

Uvex™ Stealth™ Chemical-Splash Goggles

Sleek, low-profile design fits well with respirators, hardhats or welding helmets

18-999-2312

- Polycarbonate lens is coated with Uvextreme™ anti-fog coating (XTR) for protection against fogging, scratches, static dust and 99.9% of harmful UV rays up to 385nm
- Toric lens provides superior optics and improves peripheral vision
- Combines durable polypropylene frame and soft, flexible elastomer inner flange
- Provides superior splash protection
- Indirect ventilation system directs airflow over the lens to minimize fogging and improve vision — without compromising splash and impact protection
- Neoprene headband is textured to prevent slipping and features quick-adjust clips for easy and secure fit
- Snap-off/snap-on lens replacement system suits many applications and environments

ORDERING INFORMATION:
Visit www.fishersci.com (keyword: uvex stealth) for replacement lenses and Rx carrier adapter that allows prescription glasses to be used with goggles.

COMPLIANCE: Meet ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Lens Tint	Mfr. No.	Cat. No.	Each	Case of
Light Gray/Charcoal Gray Body				
Clear	S3960C	**18-999-2312**	23.80	50/999.50
Clear†	S3960D	**17-377-403**	26.40	----
Gray	S3961C	**18-999-2314**	27.45	50/1159.00
Amber	S3962C	**18-999-2313**	27.45	50/1159.00
Teal/Light Gray Body				
Clear	S39610C	**18-999-2315**	25.75	50/1120.00
Gray	S39611C	**18-999-2316**	27.45	10/232.00

†17-377-403 has Dura-streme coating

Uvex™ Futura™ Chemical-Splash Goggles

Wraparound design provides exceptional peripheral vision

17-987-527

- Slip easily over most prescription spectacles; adapt to respirators and hardhats without impeding fit
- Lightweight body molds to the face for a firm seal and comfortable protection
- Indirect venting protects eye area against hazardous splashes and airborne particles while allowing ample air circulation for comfort
- Neoprene headstrap included

COMPLIANCE: Meet ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Lens Tint	Mfr. No.	Cat. No.	Each
Clear XTR	S345C	**17-987-527**	17.70

North™ V-Maxx Goggles

Direct- and indirect-vented models with Fog-Ban™ antifog, antiscratch coating for durability

- Comfortable protection against impact, dust, mist and chemical splash
- Wraparound design provides maximum coverage and 180° field of vision
- Soft rubber construction ensures secure, comfortable fit
- Large enough to be worn over prescription glasses
- Red headband for impact-resistant vented models; black headband for chemical-splash indirect vented models

Top 19-065-516; Bottom 19-065-517

- Red headband for impact-resistant vented models; black headband for chemical-splash indirect vented models

COMPLIANCE: Meet ANSI™ Z87.1-2010 and CSA Z94.3 standards.

Lens Tint	Headband	Mfr. No.	Cat. No.	Each	Case of 10
Direct Venting					
Clear	Elastic	11250800	**19-065-516**	9.94	83.30
Indirect Venting					
Clear	Neoprene	11250810	**19-065-517**	13.76	112.20
Shade 3.0 IR	Elastic	11250830	**19-065-518**	21.75	182.70
Shade 5.0 IR	Elastic	11250850	**19-065-519**	25.75	217.00

3M™ Maxim™ Splash Goggles

Wide lens offers extensive sightline with superior peripheral range and no distortion

19-165-401

- Lightweight frame with polymetric materials ensure comfort at cheeks, forehead and nose
- Duosoft shroud for all-day comfort
- Indirect ventilation for improved circulation, comfort and reduced fogging
- Fits over most prescription eyewear
- Anti-fog coated lens

COMPLIANCE: Meets ANSI™ Z87.1-2010 and CSA Z94.3-2007 Standards

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Model	Mfr. No.	Cat. No.	Case of 10
OTG	40671-00000-10	**19-165-401**	307.50

Faceshields

Fisherbrand® Full- and Mid-Size Faceshields

High-quality, optically clear, distortion-free 7mil film

- Polyester lens is treated with antifog and antistatic coating
- Headpiece is held in place by a stretch strap and includes a latex-free foam band for comfortable extended wear

COMPLIANCE:
Conform to OSHA 29CFR Part 1910.1030 for bloodborne pathogens and the CDC's recommendation for protective eyewear.

19-460-101

Description	Cat. No.	Pack of 25	Case of 4 Packs
Full-Size	**19-460-102**	56.20	185.70
Mid-Size	**19-460-101**	58.60	195.20

Fisherbrand® Polycarbonate Faceshield

Large, 8.5" high (21.6cm) molded polycarbonate window offers outstanding splash protection

- Provides 99.9% UV protection up to 380nm
- Ledge on headgear prevents fluid from splashing down inside the window
- Pinlock headgear can be sterilized and disinfected; window can be steam autoclaved

18-999-4542

COMPLIANCE: Meets ANSI™ Z87-2010 and CSA Z94.3 standards.

ALERTS: Faceshields should be used in conjunction with protective spectacles or goggles for appropriate protection against chemical splash or impact.

Cat. No.	Each	Case of 10
18-999-4542	28.85	242.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Splash Shield™

Can be used while sitting or standing

- Made from 0.25" thick (0.6cm) clear acrylic for durability
- Provides excellent visibility while protecting the face and neck from accidental splashes
- Lower end of shield is just 12"W (30.5cm), so it's easy to pipet or to perform other functions behind the shield
- Nonskid feet for added stability

ORDERING INFORMATION:
Base measures 12L × 20"W (30.5 × 50.8cm). Face area is 20W × 15"H (50.8 × 25.6cm).

NOTES:
Not suitable for radiation protection.

17-987-421

Cat. No.	Each
17-987-421	114.60

Laser Eyewear

Uvex™ DVO™ Laser Eyewear

For use with low-powered lasers and by those exposed to diffuse laser radiation

Filters have excellent visible light transmission and will not degrade from UV exposure for a wide range of laser wavelengths (see specifications). Argon and helium-neon lenses let wearer see the termination point of the beam.

18-999-576B

- **LOTG Series.** Universal design fits comfortably, even over prescription eyewear. Patented adjustable temples with Duoflex™ "comfort cushions" alleviate pressure. Nylon frame supports impact-resistant polycarbonate lens.
- **Glendale XC.** Spectacles with a dual 9-base wraparound lens offer superior coverage and uninterrupted peripheral vision. Multi-material cushions provide all-day comfort. Detachable Rx insert included.
- **Flex Seal.** Silicone body offers maximum comfort and an airtight seal. Fits over prescription eyewear. Indirect-ventilation system minimizes fogging.

COMPLIANCE: Meet ANSI™ Z136.1 standards.

NOTES: Do not use during exposure to direct laser radiation.

Laser Type	Wavelength (nm)	Optical Density	Luminous Transmittance
YAG/Carbon Dioxide	1064	5+	50%
	10,600	4-5	50%
Argon/KTP	200-532	4-5	53%
YAG/KTP	1064	5+	24%
	200-532	4-5	24%
Carbon Dioxide	10,600	5	65%
PDT	610-695	4-5	20%
Dye II	450-580	4-5	12%
Helium-Neon	633	1-2	46%
Red Diode Alignment	20-680	1-2	52%
YAG/HT	920-1064	7+	68%
	1065-1088	4.2+	68%

Laser Type	Lens Tint	Mfr. No.	Cat. No.	Each
LOTG Series				
YAG/Carbon Dioxide	Light Green	LOTG YAG/CO2	**18-999-576B**	366.00
Argon/KTP	Orange	LOTG AR/KTP	**18-999-577B**	320.50
YAG/KTP	Brown	LOTG YAG/KTP	**18-999-578B**	566.00
Carbon Dioxide	Violet	LOTG CO2	**18-999-579B**	71.50
PDT	Blue	LOTG PDT	**18-999-580**	339.00
Dye II	Red	LOTG DYEII	**18-999-581**	310.00
Helium-neon	Light Blue	LOTG HE/NE	**18-999-582B**	347.00
Red Diode Alignment	Aqua	31-40135	**17-377-402**	358.00
Glendale XC				
YAG/Carbon Dioxide	Light Yellow-Green	31-80101	**19-150-0432**	368.50
Argon/KTP	Orange	31-80103	**19-150-0434**	367.00
YAG/KTP	Brown	31-80102	**19-150-0433**	606.00
YAG/HT	Yellow	31-80137	**17-377-401**	377.50
Flex Seal				
YAG/Carbon Dioxide	Light Green	31-70101	**17-377-400**	366.00

Accessories

Sellstrom™ Acrylic Spectacles Tray

Provides convenient access to spectacles

- Designed for countertop or wall mounting
- Roomy acrylic tray holds up to eight spectacles
- For easy access to protective eyewear, mount near entrances to rooms where proper protection is required

ORDERING INFORMATION:
Dimensions: 6½L × 9½W × 3"H (17 × 24 × 8cm)

Mfr. No.	Cat. No.	Each
90800-02	**17-987-206A**	80.20

Hearing Protection

3M™ E-A-R™ Classic™ Plus and Classic Small Earplugs

NRR: 33dB (Classic Plus); 29dB (Classic Small)

18-99-4507

- Conforms to the shape of the earcanal to help create a comfortable, snug noise barrier
- Slow-recovery earplug foam is flame-resistant and moisture-resistant
- Test compatible with 3M™ E-A-Rfit™ Validation System

Classic Plus Earplugs

- Slightly longer than regular E-A-R Classic earplugs to fit deeper into the earcanal and provide higher noise reduction
- Ideal for areas where maximum attenuation is required

Classic Small Earplugs

- Smaller diameter increases comfort in medium and small earcanal while retaining excellent noise attenuation

ORDERING INFORMATION:
Available with or without emergency breakaway cord. Packaged one pair per biodegradable PillowPac™; 200 packs per dispenser pack.

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Style	Mfr. No.	Cat. No.	Pack of 200 Pr.	Case of 10 Pk.
Classic Plus				
Uncorded	310-1101	**18-999-4506**	67.60	603.50
Corded	311-1105	**18-999-4507**	112.50	991.50
Classic Small				
Uncorded	310-1103	**18-999-4505**	59.80	524.50
Corded	311-1106	**18-999-4504**	110.30	972.50

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

3M™ E-A-R™ Classic™ Earplugs

NRR: 29dB

19-120-156

Easy to use: simply compress the soft foam plug, insert in earcanal and let plug expand.

- Slow recovery, low-pressure foam conforms to the shape of the earcanal to help create a comfortable, snug noise barrier
- Flame-resistant and moisture-resistant
- Test compatible with 3M E-A-Rfit Validation System

ORDERING INFORMATION: Pairs packaged in polybags.

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Style	Mfr. No.	Cat. No.	Pack of 200 Pr.	Case of
PillowPac™	310-1001	**17-380**	64.10	10 Pk./346.50
Polybags				
Uncorded	312-1201	**17-380-1**	66.60	10 Pk./347.50
Corded	311-1101	**17-380-2**	110.60	10 Pk./975.50
EconoPaks				
Corded	311-1081	**19-120-156**	----	1500/703.00
Value Pack Dispenser Box (Pair packaged in polybags)				
Uncorded	390-1000	**18-858L**	51.20	10 Pk./445.50

3M™ E-A-R™ Express™ Pod Plugs™ Earplugs

NRR: 25dB

18-587

Advanced "no-roll" foam earplugs with paddle-style grips make getting a good fit easier than ever. Unique foam formula allows earplug insertion without rolling to keep fingers, plugs and ears clean

- Slow recovery foam inserts easily, then seats and stays in place for comfortable hearing protection
- Paddle-style grips provide quick, clean and consistent placement and hearing protection
- Assorted Color Grips - Yellow Foam
- Test compatible with 3M E-A-Rfit Validation System

ORDERING INFORMATION:
One pair per PillowPac™; 100 PillowPac per dispenser pack.

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product

Grip Color	Mfr. No.	Cat. No.	Pack of 100 Pr.	Case of 4 Pk.
Corded				
Assorted	311-1115-000	**18-763**	192.70	401.50
Blue	311-1114	**18-999-600**	171.00	604.00
Uncorded				
Assorted	321-2200-000	**18-586**	107.20	378.50
Blue	321-2100-000	**18-587**	107.20	378.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

3M™ E-A-R™ TaperFit™ 2 Foam Earplugs

NRR: 32dB

- Soft, roll-down foam earplugs expand to fit the earcanal and provide a low-pressure, comfortable seal
- Test compatible with 3M™ E-A-Rfit™ Validation System

17-379-1

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Size	Mfr. No.	Cat. No.	Pack of 200 Pr.	Case of
Uncorded				
Regular	312-1219	**18-999-4441**	59.10	10 Pk./518.00
Plus	312-1221	**17-379-1**	59.10	10 Pk./518.00
Corded				
Regular	312-1223	**18-999-2291**	108.50	10 Pk./957.00
Plus	312-1224	**19-087-852**	----	2000/1063.00

3M™ E-A-Rsoft™ Grippers™ Earplugs

NRR: 31dB

- Unique grip rings help create a soft, noise-blocking seal in the earcanal for effective hearing protection
- Suitable for persons with larger earcanals

19-130-1918

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Style	Mfr. No.	Cat. No.	Pack of 200 Pr.	Case of 10 Pk.
Corded	312-6001	**19-130-1918**	165.30	1488.00

3M™ Pistonz™ Push-in Foam Earplugs

NRR 29dB

Officially licensed hearing protection of NASCAR™.

- Instant-use — no need to roll down
- Stem is stiff enough for insertion, yet designed to flex sideways if impacted
- Metallic-style earplug tips with ultra-soft feel for all day wear

19-177-950

ALERTS:
The 3M products in this catalog must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Style	Mfr. No.	Cat. No.	Pack of 100	Case of 4 Pk.
Uncorded	P1400	**19-177-950**	106.60	376.50
Corded	P1401	**19-177-951**	136.10	480.50

Howard Leight™ Max™ Ear Plugs

NRR: 33dB

- Soft foam plugs are bell shaped and tapered for easy insertion
- Expand to provide a self-adjusting, custom fit
- Smooth, orange, soil-resistant outer skin keeps foreign material from penetrating the surface while being rolled prior to insertion, providing maximum comfort and hygiene
- Single use

Left: 19-021-230; right: 19-021-229

COMPLIANCE:
Attenuation tested in accordance with ANSI™ S3.19-1974.

Style	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
Disposable Polybags				
Uncorded	MAX-1	**19-021-229**	200 Ea./60.70	517.50
Corded	MAX-30	**19-021-230**	100 Ea./50.30	424.50
Resealable Polybags				
Uncorded	MAX-5	**19-063-072**	250 Ea./77.90	663.50

Howard Leight™ Max Lite™ Ear Plugs

NRR: 30dB

Ideal for workers with small ear canals. These preshaped, low-pressure, foam plugs are tapered for easy insertion; winged ends for easy removal.

19-064-895

- Nonirritating and nonallergenic
- Unique design virtually eliminates pressure on ear canal
- Smooth, soil-resistant outer shell provides optimum comfort and hygiene
- Green; one size fits all
- Single use

ORDERING INFORMATION:
Dispenser pack

COMPLIANCE:
Attenuation tested in accordance with ANSI™ S3.19-1974.

Style	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
Dispenser Pack				
Uncorded	LPF-1	**19-045-765**	200/43.55	367.50
Yellow Poly Cord	LPF-30	**19-064-895**	100/42.35	358.00
Biodegradable, Repulpable Pack				
White Cotton Cord	LPF-30-P	**19-073-803**	100/66.41	358.00
Yellow Poly Cord	LPF-30-PB	**19-037-409**	100/44.90	358.00

First Aid

AED

ZOLL™ Medical AED Plus™ Defibrillator Packages

Provides both defibrillation and help with CPR in a cardiac arrest

17-478-001

The ZOLL AED Plus™ is fully compliant with AHA/ERC 2010 Guidelines.The AED Plus is the first and only Full-Rescue AED that provides Real CPR Help® for rate and depth of chest compressions during CPR. The AED Plus guides rescuers through the complete Chain of Survival helping all sudden cardiac arrest victims, not just those who need a shock.

Features

- Real CPR Help™ — provides real-time feedback on both depth and rate of chest compressions during CPR
- Complete Chain of Survival support — for Early Access (to emergency response personnel), Early CPR, Early Defibrillation and Early Advanced Care (pre-hospital and EMS responders)
- Help for all Sudden Cardiac Arrest (SCA) victims — including cases where shock is not required
- One-piece adult electrode pad (CPR-D-padz™) — for fast and accurate placement
- Uses consumer lithium camera batteries — readily available
- Intelligent Pediatric Capability — include voice and text prompts that signal proper connection of the pedi-padz™ II electrodes for children up to eight years of age
- Rectilinear Biphasic™ Waveform — delivers improved efficacy with lower energy; offers clinically superior results vs. monophasic wavefroms and provides more average current to high impedance patients vs. other biphasic waveforms
- En-Pro™ AED Program Management — monitors and facilitates changes to AED Program components

Specifications	
Defibrillator	Waveform: Rectilinear Biphasic Defibrillator charge hold time: 30 second Energy selection: Automatic preprogrammed selection (120J, 150J, 200J) Charge time: <10 seconds with new batteries Electrodes: ZOLL CPR-D-padz, pedi-padz™ II or stat-padz™ II CPR: Metronome rate: Variable 60 to 100 CPM Depth: 0.75 to 3.5" (1.9 to 8.9cm) Patient impedance measurement range: 0 to 300 ohms Defibrillator: Protected ECG circuitry Display Format: Optional LCD with moving bar Data recording and storage: 50 minutes of ECG and CPR data Battery capacity: Typical new (20°C) = 5 years (225 shocks) or 13 hours continuous monitoring End of designated by Red × (typical remaining shocks = 9) Size: 2.6 × 1.3" (6.6 × 3.3cm)
Device	Device Classification: Class II and internally powered per EN60601-1 Design Standards: Meets applicable requirements of UL 2601, AAMI DF-39, IEC 601-2-4, EN60601-1, IEC60601-1-2 Power: User-replaceable batteries, 10 Type 123A Photo Flash lithium manganese dioxide batteries Size: 11.50D × 9.50W × 5.25" H (29.2 × 24.1x 13.3cm) Weight: 6.7 lb. (3.1kg)
Environmental	Altitude: -300 to 15000 ft. (-91 to 4573m) Particle and Water Ingress: IP-55 Shock: IEC 68-2-27; 100G Vibration: MIL standard: 810F, Minimum Helicopter test Humidity: 10 to 95% relative humidity, non-condensing Operating Temperature: 0° to 50°C (32° to 122°F) Storage Temperature: -30° to 60°C (-22° to 140°F)
CPR-D-padz	Conductive gel: Polymer Hydrogel Conductive element: Tin Impedance Class: Low Design standards: Meets applicable requirements of ANSI/AAMI/ ISO DF-39-1993 Cable length: 48 in (1.2 m) Complete assembly (Folded): 7.6L × 7.0W × 1.5" H (19.4 × 17.8 × 3.8cm) Shelf life: 5 years Packaging: Multilayer foil laminate pouch

Description	Includes	Mfr. No.	Cat. No.	Each
AED Plus Package with PlusMed1	AED Plus with CPR-D-padz (one-piece adult electrode), Lithium Type 123 Batteries (10) and Medical Prescription	21700010101011010	**17-478-001**	2223.00
AED Plus Package with PlusTrac1	AED Plus with CPR-D-padz (one-piece adult electrode), Lithium Type 123 Batteries (10) and One-year AED Compliance Management Program	21800010101011010	**17-478-002**	2306.00
AED Plus Package with PlusTrac5	AED Plus with CPR-D-padz (one-piece adult electrode), Lithium Type 123 Batteries (10) and Five-year AED Compliance Management Program	21900010101011010	**17-478-003**	2409.00

ZOLL™ Medical Electrodes and Batteries for AED Plus™ Defibrillators

For complete CPR and defibrillation delivery

Replacement parts and supplies for automated external defibrillators.

Features

- One-piece electrode pad — for fast and accurate placement
- Uses consumer-type lithium camera batteries — readily available

Description	Includes	Mfr. No.	Cat. No.	Each
CPR-D-padz	Adult Electrode Pad	8900-0800-01	**17-478-004**	201.50
Pedi-padz II	Child Electrode Pad	8900-0810-01	**17-478-005**	113.10
Type 123 Lithium Batteries	Sleeve of 10	8000-0807-01	**17-478-006**	89.30

17-478-004

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kits

North™ Bulk First Aid Kits

Designed for large facilities

- Contain economical bulk supplies that can be readily accessed when needed
- Kits are ideal for manufacturing settings where a wide variety of first aid items are required
- Latex-free
- Weatherproof
- Supplies housed in waterproof metal or plastic case

19-130-2485

ORDERING INFORMATION:
Rapid refill kits available separately.
Other kit sizes and configurations available at www.fishersci.com.

COMPLIANCE: ANSI™ Z308.1-2003 compliant

Kit Contents

Description	Units per Kit 25 Person	50 Person
Adhesive bandage, 1 × 3" (2.5 × 7.6cm), plastic	32	100
Adhesive bandage, fingertip, cloth	3	4
Adhesive bandage, extra large	1	2
Adhesive bandage, knuckle, cloth	2	3
Adhesive tape, 0.5" × 2.5 yd. (1.3 × 22.9m)	2	2
Antimicrobial towelettes	6	12
Conforming bandage, 2" × 6 yd. (5.1 × 54.9m), nonsterile	2	3
Conforming bandage, 3" × 6 yd. (7.6 × 54.9m), nonsterile	1	2
CPR filtershield	1	1
Elastic bandage, 2" (5.1cm)	----	1
Eye-Lert™, 1 oz. (29.6mL) eyewash	1	1
Eye pad, sterile	1	2
First aid/burn cream with aloe	6	12
First aid guide	1	1
Forceps, pointed plastic	1	1
Gauze pads, 2 × 2" (5.1 × 5.1cm), sterile	4	10
Gauze pads, 3 × 3" (7.6 × 7.6cm), sterile	1	2
Instant cold pack	1	2
Medical gloves, synthetic	4 Pr.	4 Pr.
Pain-A-Rest™, nonaspirin (2 per pack)	3 Pk.	6 Pk.
Poison control directory	1	1
Scissors, angled, red handle	1	1
Single antibiotic packet	6 Pk.	12 Pk.
Sting relief wipes	6	12
Trauma pad, 5 × 9" (12.7 × 22.9cm)	1	1
Triangular bandage	1	1

Size	Mfr. No.	Cat. No.	Each
With Plastic Case			
25 Person	019702-4502	**19-130-2485**	31.65
50 Person	019704-4504	**19-130-2487**	74.20
With Metal Case			
25 Person	019703-4503	**19-130-2486**	64.20
50 Person	019705-4505	**19-130-2488**	103.40

North™ 25-Piece Laboratory First Aid Kit

19-130-1897

Designed for use in classrooms, research or clinical laboratories. Fully stocked kit with handle for easy transport.

- Burn Jel™, 1/8 oz. pouch (6)
- Antiseptic wipes, BZK (10)
- Water Jel™ burn dressing, 4 × 4" (1)
- Adhesive bandage, XL, plastic (6)
- Adhesive bandage, 1 × 3", plastic (16)
- Gauze pads, 3 × 3", sterile (4)
- Compress, 4" offset (1)
- Triangular bandage, non-sterile (1)
- Eyewash with (4) eye pads and strips (1)
- Instant Cold Pack (1)
- Adhesive tape, 1/2" × 2-1/2 yd. (2)
- Forceps and scissors (1)
- Nitrile gloves, medical grade (2)
- Poison control directory (1)

COMPLIANCE:
ANSI™ Z308.1-2003 compliant

Kit Contents

Description	Quantity
Adhesive bandages, XL	6
Adhesive bandages, 1 × 3"	16
Adhesive tape, 0.5 × 2.5 yd.	2
Antiseptic wipes	10
Burn Jel™ 0.13 oz. pouch	6
Compress, 4" offset	1
Eyewash with 4 eye pads and strips	1
Forceps and scissors	1
Gauze pads, 3× 3", sterile	4
Instant cold pack	1
Nitrile gloves, medical grade, pair	2
Poison control directory	1
Triangular bandage, nonsterile	1
Water Jel™ burn dressing, 4× 4"	1

Mfr. No.	Cat. No.	Each	Case of 10
019750-4532	**19-130-1897**	63.90	542.00

North™ Unitized First Aid Kits

Sturdy, durable and waterproof

19-130-2497

- Color-coded cartons hold individual sealed unit dose applications
- Yellow for bandages and compresses
- Orange for personal protection
- Blue for antiseptics and wound cleaners
- Red for burn treatment
- Green for special and miscellaneous items
- Cases have carrying handles for portability
- Supplied with brackets for wall mounting
- Available in plastic or metal case

COMPLIANCE:
ANSI™ Z308.1-2003 compliant

Kit Contents

Description	Units per Kit 10 Person	16 Person	24 Person	36 Person
Adhesive bandage, 1 × 3" plastic	16	32	48	64
Adhesive bandage, fingertip, cloth	----	----	10	20
Adhesive bandage, knuckle, cloth	----	8	8	16
Adhesive tape, 0.5" × 2.5 yd.	2	2	2	4
Bandage compress, 3"	----	----	----	1
Bandage compress, 4"	----	1	1	1
Eye-Lert™, 1 oz. eyewash	----	1	1	2
First aid/burn cream with aloe	6	6	12	12
First aid guide	1	1	1	1
Forceps and scissors	1	1	2	1
Gauze bandage, 2" × 6 yd.	----	----	2	4
Gauze compress, 36" square	1	1	1	2
Gauze pads, 3 × 3", sterile	4	4	8	8
Instant cold pack	1	1	1	2
Poison control directory	1	1	1	1
PVP iodine wipes	10	10	20	20
Sting relief wipe	----	10	10	20
Synthetic medical gloves, pairs	4	4	8	8
Triangular bandage	1	1	1	1

Size	Mfr. No.	Cat. No.	Each
With Plastic Case			
10 person	019708-0005L	**19-130-2491**	30.90
16 person	019710-0006L	**19-130-2493**	44.30
24 person	019712-0007L	**19-130-2495**	78.50
36 person	019714-0008L	**19-130-2497**	112.90
With Metal Case			
10 person	019709-0005L	**19-130-2492**	53.30
36 person	019715-0008L	**19-130-2498**	141.85

North™ Redi-Care First Aid Kits

Lightweight and easy to tote

19-014-836

Portable general-industry first aid kits are available in several sizes and packages. Kits' contents come in lightweight, soft-sided nylon bags with carrying handles and belt loops, making them easy to tote. High visibility red.

- Promotional/Individual kit includes 37 items and measures 1.50L × 4.5W × 7"H (3.81 × 11.43 × 17.78cm)
- Small kit includes 42 items and measures 6.4 × 12.7 × 12.1" (16.3 × 32.3 × 30.7cm)
- Medium kit includes 133 items and measures 8.75L × 6W × 2.75"H (22.2 × 15.2 × 7.0cm)
- Large kit includes 248 items and measures 10.5L × 7W × 6"H (26.7 × 17.8 × 15.2cm)

ORDERING INFORMATION:
Medium and large kits are also available with a CPR barrier.

Kit Contents

Description	Units per Kit Promotional	Small	Medium	Large
Adhesive bandages, cloth, 1 × 3"	10	----	----	100
Adhesive bandages, plastic, 1 × 3"	----	1	32	----
Adhesive bandages, cloth extra large	2	4	4	4
Adhesive bandage, fingertip, cloth	2	4	4	4
Adhesive bandage, knuckle, cloth	2	4	4	6
Adhesive tape, 0.5" × 2.5 yd.	1	1	1	1
Adhesive tape, 1" × 5 yd.	----	----	----	1
Antibiotic ointment pouch	4	----	10	10
Antiseptic spray, 2 fl. oz.	-----	1	----	1
Bandage roll, 2" × 4.1 yd.	----	----	----	2
Burn cream, 0.9g	4	6	6	----
Burn spray, 2 fl. oz.	----	----	----	1
Cold pack, instant	1	1	1	2
Compress gauze, 18 × 36	----	1	1	1
CPR Microshield with pouch	----	----	----	1
Eye-Lert™ eyewash, 4 fl. oz.	----	----	1	1
Eye pad, sterile	----	----	50	50
First aid guide	----	----	1	1
Forceps	1	1	1	1
Gauze pads, sterile, 3 × 3"	2	4	4	10
Hydrocortizone pouch, 1%, 0.03 fl. oz.	----	----	----	32
Nitrile gloves, 1 pair	1	2	1	2
Offset™ bandage, 2"	----	----	----	1
PVP iodine wipes	6	10	10	10
Rescue blanket, 56 × 84"	----	----	----	1
Scissors	1	1	1	1
Self-adherent wrap, 3" × 5 yd.	----	----	----	1
Splint, wire, 3.75 × 30"	----	----	----	1
Trauma pad, 5 × 9"	----	----	----	1
Triangular bandage with pins, nonsterile	----	1	1	1

Size	L × W × H	Mfr. No.	Cat. No.	Each
Promotional/Individual	1.5 × 4.5 × 7"	018503-4219	**19-014-838**	22.05
Small	6.4 × 12.7 × 12.1"	018502-4220	**19-014-837**	34.40
Medium	8.75 × 6 × 2.75"	018501-4221	**19-014-836**	51.10
Medium with CPR Barrier	8.75 × 6 × 2.75"	018505-4221	**19-014-840**	62.60
Large	10.5 × 7 × 6"	018500-4222	**19-014-835**	103.20
Large with CPR Barrier	10.5 × 7 × 6"	018504-4222	**19-014-839**	116.30

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

North™ Products First Aid Stations

Ideal for large office or manufacturing settings

No. of Persons	Size	Mfr. No.	Cat. No.	Each
100	15 × 10.5 × 4.7" (38.1 × 26.6 × 11.9cm)	019720-4516F	**17-986-557**	180.00
150	18 × 11.8 × 6" (45.7 × 29.9 × 15.2cm)	019721-4517F	**17-986-558**	262.00
200	22 × 17 × 6" (55.8 × 43.1 × 15.2cm)	019722-4518F	**17-986-559**	388.00

North™ Bloodborne Pathogen Response Kits

Provide fast, effective cleanup of potentially infectious materials

19-130-2508

Include necessary supplies to clean up a spill containing blood-borne pathogens, such as blood, vomit and other bodily fluids.

- Easy to use — simply cover spill with absorbent beads, allow to congeal, scoop up spill with shovel andplace into biohazard bag
- Packaged in sealed plastic bags
- Intended for single use

COMPLIANCE:
Includes personal protective equipment necessary to protect employees in accordance with OSHA 1910.130.

NOTES:
Dispose of contaminated items and waste properly in accordance with local, state andfederal regulations.

Kit Contents

Description	Units per Kit 10 Person	16 Person	24 Person
Absorbent, 2 oz.	1	1	1
Absorbent towel	1	1	1
Antiseptic wipes	1	1	1
Biohazard bag, 24 × 24", with ties	1	2	2
Germicidal surface wipe	1	1	1
Gown	----	1	1
Medical gloves, pairs	1	2	2
Scraper	----	1	1
Shovel	1	1	1
Surgical mask and shield	----	1	1

Size	Mfr. No.	Cat. No.	Each
10 Unit	019748-4530	**19-130-2509**	34.90
16 Unit	019746-4528	**19-130-2508**	52.30
24 Unit	019740-4526	**19-130-2507**	65.40

ON THE WEB...

Fisher Scientific has a host of other first aid solutions for your requirements.

Visit www.fishersci.com and search for First Aid

North™ Water-Jel Burn Kits

Kits include dressings and unit doses of water-soluble Burn Jel™ for treatment of both common "spot" burns as well as larger, more serious burns

19-160-322 and 19-160-321

Water-based gel immediately helps halt burn progression when applied, plus lidocaine helps relieve pain.

- Water-based gel draws out heat
- Immediate application helps halt burn progression
- Relieves pain with lidocaine
- Carrying bag measures 10L × 7W × 3"H (25.4 × 17.8 × 7.6cm)
- Choose from two kit sizes

INCLUDES:

- Small Burn Kit: five sterile burn dressings (one each 12 × 16" dressing for facial burns, two each 4 × 4" and 2 × 6" dressings), two conforming bandages and one pair of paramedic scissors.
- Large Burn Kit: one small Water-Jel fire blanket, five sterile burn dressings (one each 12 × 16" dressing for facial burns, two each 8 × 18" and 4 × 16" dressings), four conforming bandages, one pair of paramedic scissors and one carrying bag.

Description	Mfr. No.	Cat. No.	Each
Small Burn Kit	049055	**19-160-321**	158.80
Large Burn Kit	049056	**19-160-322**	297.00

Advantus OpticPad™ Optical Surface Cleaning Pad

Evaporates quickly — leaves no residue

Ideal for cleaning and polishing mirrors, microscope lenses, machine optics, magnifying glasses, optical sensors, safety goggles and fiber optic splice connections

- Nonabrasive
- Individually wrapped
- Disposable, lint-free pad pre-saturated with solvent for cleaning and polishing optical-grade surfaces

18-420-202

Description	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Pk.
Optical Surface Cleaning Pad	CT811	**18-420-202**	45.00	359.00

North™ Alcohol Wipes

For wound care

- Individually sealed
- Size: 1 × 2.5"

19-014-855

Description	Mfr. No.	Cat. No.	Each
Dynarex 20% medium alcohol pads	156818X	**19-014-855**	5.84

North™ Alcohol Wipes

For single use

- Saturated with 70% isopropyl alcohol
- Individually sealed

19-015-744

Size	Packaging	Mfr. No.	Cat. No.	Each
1 × 2.5" (25.4 × 63.5mm)	200 per box	156818D	**19-015-744**	5.85

American Safety Razor™ Extra Keen™ Single-Edge Razor Blade

Resealable clear storage box with full access hinged lid

- Blue 0.009" high carbon steel
- Special triple-facet edge for critical cuts
- Each blade protected in shelling paper
- Non-rust aluminum back
- Razor fits all standard razor blade tools
- Double hang tags holds 100 single edge blades

17-989-010

Description	Mfr. No.	Cat. No.	Case of 5000
Single edge razor blade	66-0362	**17-989-010**	581.00

American Safety Razor™ Gem™ by Personna™ Single-Edge Blade Safety Dispener

Precise, sharp and safe blade suitable for a variety of industrial applications

17-989-020

- Three-facet blade with aluminum back
- Safe dispensing — simply push button to release/eject blade; blade pops up with backing first
- See-through cover reveals number of remaining blades
- Secure, built-in used blade storage

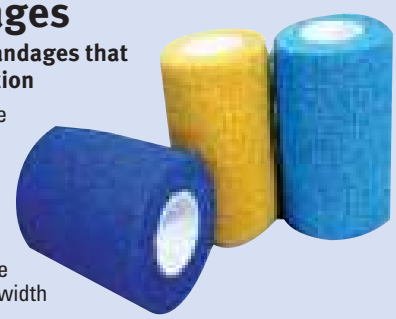
Mfr. No.	Cat. No.	Case of 5000
62-0325	**17-989-020**	697.00

Bandages

Fisherbrand® Latex Cohesive Wrap Bandages

Excellent pressure bandages that do not cut off circulation

- Cohesive and flexible while providing excellent porosity
- Consistent compression with nonslip support
- Maintain original size and do not shrink in width
- Adhere to themselves — no clips or fasteners needed
- Quick, easy removal without scissors
- Length: 5 yd. (4.6m)



22-270-313, 22-270-323 and 22-270-321

ORDERING INFORMATION:
Multicolor packs include an assortment of neon green, neon pink, purple, red, light blue, dark blue and many more colors.

Color	Cat. No.	Case of
1" Width (2.5cm)		
Dark Blue	**22-270-301**	30/39.00
Light Blue	**22-270-302**	30/39.00
Green	**22-270-303**	30/39.00
Neon Green	**22-270-304**	30/39.00
Pink	**22-270-305**	30/39.00
Purple	**22-270-306**	30/39.00
Red	**22-270-307**	30/39.00
Tan	**22-270-308**	30/39.00
White	**22-270-309**	30/39.00
Multi-Color	**22-270-310**	30/39.00
1.5" Width (3.8cm)		
Dark Blue	**22-270-332**	48/107.35
Neon Green	**22-270-333**	48/107.35
Purple	**22-270-335**	48/107.35
Red	**22-270-336**	48/107.35
Tan	**22-270-337**	48/107.35
White	**22-270-338**	48/107.35
Multi-Color	**22-270-339**	48/107.35

Color	Cat. No.	Case of
2" Width (5.1cm)		
Black	**22-270-312**	36/88.56
Dark Blue	**22-270-313**	36/88.56
Light Blue	**22-270-314**	36/88.56
Green	**22-270-315**	36/88.56
Neon Green	**22-270-316**	36/88.56
Neon Pink	**22-270-317**	36/88.56
Purple	**22-270-318**	36/88.56
Red	**22-270-319**	36/88.56
Tan	**22-270-320**	36/88.56
Teal	**22-270-321**	36/88.56
Yellow	**22-270-323**	36/88.56
Multi-Color	**22-270-324**	36/88.56
3" Width (7.6cm)		
Tan	**22-270-326**	24/64.93
White	**22-270-327**	24/64.93
Multi-Color	**22-270-328**	24/64.93
4" Width (10.2cm)		
Purple	**22-270-329**	18/53.59
Multi-Color	**22-270-330**	18/53.57

WARNING

The products featured above contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Latex-Free Cohesive Flexible Bandages

Free of natural rubber proteins and allergens

22-363 Series

- Maintain consistent compression without slipping or restricting mobility
- High porosity; water-resistant
- Lightweight, porous material allows skin to breathe for ultimate comfort
- Adhere to themselves — no clips or fasteners needed
- Available in a wide range of colors and widths
- Length: 5 yd. (4.6m)

ORDERING INFORMATION:
Assorted color packs include an assortment of green, pink, purple, red, blue, tan and white.

Color	Cat. No.	Price
1" width (2.5cm) × 5 yd.		
Tan	**22-363-100**	30/55.45
Blue	**22-363-101**	30/55.45
Pink	**22-363-104**	30/55.45
White	**22-363-105**	30/55.45
Red	**22-363-106**	30/55.45
Green	**22-363-107**	30/55.45
Assorted colors	**22-363-103**	30/55.45
1.5" width (3.8cm) × 5 yd.		
Tan	**22-363-111**	48/121.24
Blue	**22-363-112**	48/121.24
Purple	**22-363-113**	48/121.24
White	**22-363-116**	48/121.24
Red	**22-363-117**	48/121.24
Green	**22-363-118**	48/121.24
Assorted colors	**22-363-114**	48/127.30
2" width (5.1cm) × 5 yd.		
Tan	**22-363-122**	36/120.51
Blue	**22-363-123**	36/120.51
Purple	**22-363-124**	36/120.51
Pink	**22-363-126**	36/120.51
White	**22-363-127**	36/120.51
Red	**22-363-128**	36/120.51
Assorted colors	**22-363-125**	36/120.51
3" width (7.6cm) × 5 yd.		
Tan	**22-363-134**	24/102.34
Blue	**22-363-135**	24/102.34
Purple	**22-363-136**	24/102.34
Green	**22-363-141**	24/102.34
Assorted colors	**22-363-137**	24/102.34
4" width (10.2cm) × 5 yd.		
Red	**22-363-148**	18/110.01
Assorted colors	**22-363-147**	18/110.01

Derma Sciences Stat Strip™ Bandages

Available in sheer and flexible styles

- Sterile and latex-free
- Both styles feature snap-open wrapper for easy handling, even with gloved hands

17-442-3D with 17-442-3C

Size	Cat. No.	Pack of 100	Case of 12 Packs
Sheer			
0.75 × 3" (1.9 × 7.6cm)	**17-442-3A**	10.35	101.70
1 × 3" (2.5 × 7.6cm)	**17-442-3B**	14.83	125.00
Flexible Fabric			
0.75 × 3" (1.9 × 7.6cm)	**17-442-3C**	14.37	125.00
1 × 3" (2.5 × 7.6cm)	**17-442-3D**	15.95	139.00

Hygenic™ Latex Disposable Tourniquet Straps

Tear-resistant, satin-smooth latex

- Disposable to prevent possibility of cross-contamination
- Easily tied and untied
- Individually precut to measure 1 × 18 × 0.025" (2.5 × 46 × 0.06cm)

15-235-2

Mfr. No.	Cat. No.	Pack of 100	Case of 10 Packs
02002	**15-235-2**	68.20	529.00
07346	**15-235-1**	172.70	484.00

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Matting (Antifatigue)

Dry Area

Wearwell™ Lab Mats

17-986-100

Provide durability and excellent cushioning support

- No-wax vinyl surface for use in dry work areas
- Supercompression sponge base relieves overall body fatigue
- 0.08" (0.2cm) thick virgin vinyl permanently bonded to 0.38" (1cm) thick moisture-resistant, closed-cell sponge base
- Tough, nonporous surface resists abuse even in the most heavily used work areas
- Surface resists breakdown when exposed to most laboratory and industrial chemicals
- Edges safely beveled to prevent tripping and falling

ORDERING INFORMATION:
Available in cut lengths up to 50' (15.2m) (radial) in 2, 3 and 4' (61, 91 and 122cm) widths. Contact your Customer Service Representative for ordering information.

Color	Mfr. No.	Cat. No.	Each
2 × 3' (61 × 91cm)			
Black	402 12X2X3BK	**17-986-100**	120.10
Gray	402 12X2X3GY	**17-986-101**	120.10
3 × 5' (152.4 × 91.4cm)			
Black	402 12X3X5BK	**17-986-103**	285.50
Gray	402 12X3X5GY	**17-986-104**	285.50

Wearwell™ Rejuvenator™ Ultra Soft-Cell Antifatigue Mat

19-044-0891A

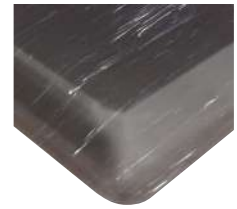
100% urethane antifatigue mats provide long-term value

- Combines comfort, performance and exceptional resilience
- Crush-, tear- and abrasion-resistant for use in dry, heavy-use areas
- Dense, 0.125" thick urethane skin protects the closed-cell urethane sponge interior
- Interlocks create long sections for larger work stations
- Color: Black

WARRANTY:
10 year resilience

Description	Color	Mfr. No.	Cat. No.	Each
Size: 3 × 2 ft. (L × W)	Black	501 58X2X3BK	**19-044-0891A**	164.00
Size: 5 × 3 ft. (L × W)	Black	501 58X3X5BK	**19-044-0891B**	372.50

Wearwell™ UltraSoft Tile-Top Antimicrobial Mats



19-151-1204

100% antimicrobial mat

- Permanent antimicrobial nonporous vinyl surface with micro-pure™ nitrile composite sponge base
- 0.875" (2.22cm) double thick sponge base for extra comfort
- Destroys microorganisms on contact
- Extra wear layer for abrasion and chemical resistance

ORDERING INFORMATION:
Mats may also be custom ordered in virtually any size or dimension to fit very large and unique spaces. Contact your Fisher Scientific Customer Service Representative for details.

NOTES: Not recommended for use under chairs, stools and casters or with spiked heels.

Color	Mfr. No.	Cat. No.	Each
2 × 3' (61 × 91cm)			
Charcoal Gray	419 78X2X3AMCH	**19-151-1202**	112.50
Light Gray	419 78X2X3AMGY	**19-151-1203**	112.50
Black	419 78X2X3AMBK	**19-151-1200**	112.50
Blue	419 78X2X3AMBL	**19-151-1201**	112.50
3 × 5' (91 × 152cm)			
Charcoal Gray	419 78X3X5AMCH	**19-151-1206**	278.00
Light Gray	419 78X3X5AMGY	**19-151-1207**	278.00
Black	419 78X3X5AMBK	**19-151-1204**	278.00
Blue	419 78X3X5AMBL	**19-151-1205**	278.00
3 × 10' (91 × 305cm)			
Charcoal Gray	419.78X3X10AMCH	**19-151-178**	629.50
Light Gray	419.78X3X10AMGY	**19-151-179**	629.50
Black	419.78X3X10AMBK	**19-151-176**	629.50
Blue	419.78X3X10AMBL	**19-151-177**	629.50

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Wearwell™ Tile-Top Antimicrobial Mats

Permanent antimicrobial surface destroys microorganisms on contact

19-151-1209

- Ideal for use in all dry work areas from packaging, banks, labs, office and behind or in front of counters
- Unique antimicrobial Nitricell™ sponge base offers long life and resilience
- 0.5" (1.3cm) sponge base for extra comfort
- Extra wear layer for abrasion and chemical resistance

Color	Mfr. No.	Cat. No.	Each
2 × 3' (61 × 91cm)			
Charcoal Gray	420 12X2X3AMCH	**19-151-1211**	85.50
Gray	420 12X2X3AMGY	**19-151-1210**	85.50
Blue	420 12X2X3AMBL	**19-151-1209**	85.50
Black	420 12X2X3AMBK	**19-151-1208**	85.50
3 × 5' (91 × 152cm)			
Charcoal Gray	420 12X3X5AMCH	**19-151-1215**	207.50
Gray	420 12X3X5AMGY	**19-151-1214**	207.50
Blue	420 12X3X5AMBL	**19-151-1213**	207.50
Black	420 12X3X5AMBK	**19-151-1212**	207.50
3 × 10' (91 × 304cm)			
Charcoal Gray	420.12X3X10AMCH	**19-151-182**	473.50
Gray	420.12X3X5AMGY	**19-151-183**	473.50
Blue	420.12X3X10AMBL	**19-151-181**	473.50
Black	420.12X3X10AMBK	**19-151-180**	406.00

Wet Area

Wearwell™ WorkRite™ Mats

Easy to handle, lightweight drainage mats

17-986-121

- High-performance drainage mats are perfect for wet commercial or industrial areas
- Lightweight design that eases the strain of frequent cleanings, yet keeps employees quite comfortable
- A functional flow-through pattern and underside knobs accommodate small parts or debris that falls on the floor, while the molded beveled edges allow easy access. 0.5" thick
- Recycled: Item contains recycled content as described in the item detail
- All-Purpose: Black rubber mats designed for use in dry areas and around water
- CFR (Cutting Fluid Resistant): Gray mats made of unique rubber compound that resists mineral oil-based cutting fluids and provides good chemical resistance

WARRANTY:
One year

L × W	Mfr. No.	Cat. No.	Each
3 × 5' (91 × 152cm)	474 12X3X5BK	**17-986-121**	122.90
3 × 10' (91cm × 3m)	474 12X3X10BK	**18-999-892**	257.50
3 × 20' (91cm × 6.1m)	474 12X3X20BK	**18-999-893**	523.50

Monitors

3M™ Organic Vapor Monitors

Lightweight, self-contained monitors record time-weighted average (TWA) vapor concentrations in factories and industrial facilities, histology, cytology and clinical labs

10-030-80

Provide low per-test cost. Short-term and workshift sampling can be conducted easily so you can quantify vapor exposure by employee, job category or area.

Usage

- To use, simply remove a monitor from its package and clip it to clothing near the breathing zone
- For monitoring a specific work area, place the monitor in a location where airflow is unrestricted
- After monitoring, seal the badge with the supplied cap; replace it in the package; record the time, date and vapors to be analyzed; and send it to the lab for analysis†
- Applications: Periodic sampling and screening of hazardous areas and jobs; indicating trouble spots; checking ventilation; and keeping accurate employee health records.

Monitor Types

- Monitors 3500 and 3510 are designed to provide precise TWA concentration measurements for an eight-hour period. Monitors 3500 and 3520 allow you to collect data for analysis by an independent laboratory. Monitors 3510 and 3530 include prepaid analysis for up to three compounds per badge
- Monitors 3520 and 3530 are designed with a special backup section for sampling environments that include compounds like acetone, methylene chloride and isopropyl alcohol

ORDERING INFORMATION:
Data is available from 3M on sampling rate and measuring range for more than 135 vapors that these monitors can sample. Contact your Fisher Scientific Customer Service Representative at 1-800-772-6733 for a complete list of organic compounds sampled.

COMPLIANCE:
Monitors meet or exceed OSHA accuracy requirements of ±25% for many workplace contaminants.

NOTES:
Acetone, methyl ethyl ketone and vinyl acetate may show a decreased recovery when sampled in high relative humidity. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Description	Mfr. No.	Cat. No.	Each
Monitor only	3500	**10-030-80**	24.95
Monitor with analysis	3510	**10-030-91†**	660.45
Monitor with backup	3520	**17-985-363A**	125.80
Monitor with backup and analysis	3530	**17-988-407†**	890.97

*†The analysis service will analyze only the compounds shown in the 3M Compounds Analysis Chart. Up to three of the listed compounds can be analyzed per monitor with prepaid analysis. For analysis of unlisted compounds, contact your Fisher Safety Customer Service Representative at **1-800-772 6733.***

3M™ Formaldehyde Monitor

Complies with OSHA formaldehyde standard

17-985-363C

Valuable for use in chemical, textile and pulp and paper industries; histology; healthcare.

- Sensitivity of 0.8ppm-hours (0.1ppm over an eight-hour period)
- Upper exposure limit of 40ppm-hours (5ppm over an eight-hour period)
- Available as a monitor only or with prepaid analysis

COMPLIANCE:
Exceeds OSHA accuracy requirements for eight-hour sampling.

NOTES: Not for 15-minute STEL (short-term exposure limit) sampling. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Description	Mfr. No.	Cat. No.	Case of 5
Monitor only	3721	**17-985-363C**	181.30
Monitor with prepaid analysis	3720	**10-030-84**	451.50

Dräger™ accuro™ Bellows Pump

Allows easy measurement of more than 350 gases — including formaldehyde

17-986-70A

Provides direct, onsite measuring of more than 350 gases, vapors and aerosols. Internal scissors mechanism provides stability so that a uniform pump stroke of 100cm³ can be completed.

- Convenient, built-in stroke counter records strokes performed
- Recessed counter reset button prevents accidental resetting; a white dot in window of pump rises to indicate completion of each stroke cycle, preventing incomplete measurements
- Ergonomic design; soft rubber grips make it easier to hold
- Built-in ceramic tube opener adds safety and convenience
- Corrosion-resistant construction provides years of reliable service
- Components are replaceable and snap together for reassembly
- Manufactured using ISO 90001:2008-certified processes

ORDERING INFORMATION:
Pump dimensions: 6.75L × 1.75W × 3.75"H (17.1 × 4.5 × 8.5cm).
Net weight: 0.5 lb. (225g). Stroke volume: 100cm³ ±5%.

INCLUDES: Pump is available alone or as part of a pump kit that contains the accuro pump, deluxe tube opener, a pack of rubber caps for tubes, a screwdriver, an Allen wrench and spare parts for the pump. Hardside Kit has a durable, hard plastic carrying case. Softside Kit includes a nylon transport case with shoulder strap.

REQUIRES:
Dräger Short-Term Detector Tubes (sold separately)

Description	Mfr. No.	Cat. No.	Each
accuro pump (alone)	6400000	**17-986-70A**	518.50
accuro Softside Kit	4053473	**17-988-408**	611.00
accuro Hardside Kit	4056443	**19-046-750**	662.50
accuro Hard Case	4056442	**19-046-749**	105.30

Dräger™ CMS™ Chip Measurement System

Uses an analyzer and substance-specific chips to obtain accurate, reliable measurements of gas and vapor concentrations

18-999-1915A

Bar code on each chip contains specific information such as gas type, measurement range and other necessary parameters for measurement evaluation; when a chip is inserted into the analyzer, the bar code is read and interpreted. Choose from more than 50 interchangeable chips (sold separately).

- Mass-flow-regulated pump system draws a constant flow of sample through the chip, compensating for any pressure fluctuation
- Easy to use, with simple menu commands and one-switch operation
- Chip contains 10 measurement channels filled with a substance-specific reagent that provides a quick reaction with the contaminant
- Intelligent interaction ensures high level of accuracy
- Data recorder gives contaminant, concentration, date, time and location; stores up to 50 measurements

ORDERING INFORMATION:
Compact, rugged housing measures approximately 1.5L × 3.5W × 8"H (3.8 × 8.9 × 20.3cm). Net weight: 1.63 lb. (730g). Uses four AA alkaline batteries (included).

INCLUDES:
Comes with carrying case and batteries. Optional remote system (sold separately) includes an additional pump, a screwdriver and a 9' (3m) extension hose to sample contaminants in inaccessible areas.

REQUIRES:
CMS chips (sold separately)

CERTIFICATIONS:
Intrinsically safe and certified according to UL, MSHA and CENELEC standards. (UL and CSA Classified as Intrinsically Safe for use in Class I, Div. 1, Groups A-D, T4.)

Description	Mfr. No.	Cat. No.	Each
Analyzer	6405300	**18-999-1915A**	2135.70
Remote System	6405060	**18-999-1916**	734.00

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Many have worked in research facilities like yours and others have training and expertise in supply chain management and business processes. Collectively, our team understands your business and is here to help you succeed.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Dräger™ CMS Chips

Chip Type	Measurement Range	Mfr. No.	Cat. No.	Each
Acetic Acid	2–50ppm	6406330	**19-040-947**	111.20
Acetone	40–600ppm	6406470	**19-040-949**	115.90
Ammonia	0.2–5.0ppm	6406550	**19-046-640**	108.10
Ammonia	2–50ppm	6406130	**18-999-1917**	78.90
Ammonia	10–150ppm	6406020	**18-999-1918**	78.90
Ammonia	100–2000ppm	6406570	**19-050-784**	84.60
Benzene	0.20–10ppm	6406030	**19-815-818**	206.35
Benzene	0.5–10ppm	6406160	**19-034-568**	213.00
Benzene	10–250ppm	6406280	**19-034-569**	211.00
Butadine	1–25ppm	6406460	**19-640-460**	109.40
Carbon Dioxide	200–3000ppm	6406190	**19-034-570**	79.20
Carbon Dioxide	1000–25,000ppm	6406070	**18-999-1920**	76.60
Carbon Dioxide	1–20% by volume	6406210	**19-034-571**	80.10
Carbon Monoxide	5–150ppm	6406080	**18-999-1921**	76.60
Chlorine	0.2–10ppm	6406010	**18-999-1922**	78.90
Ethanol	100–2500ppm	6406370	**19-640-370**	103.75
Formaldehyde	0.2–5ppm	6406540	**19-042-723**	108.20
Hydrochloric Acid	1–25ppm	6406090	**18-999-1923**	100.10
Hydrochloric Acid	20–500ppm	6406140	**18-999-1924**	102.20
Hydrogen Cyanide	2–50ppm	6406100	**18-999-1925**	95.70
Hydrogen Peroxide	0.2–2ppm	6406440	**19-046-642**	113.40
Hydrogen Sulfide	0.2–5ppm	6406520	**19-046-641**	108.10
Hydrogen Sulfide	2–50ppm	6406050	**18-999-1926**	78.90
Hydrogen Sulfide	20–500ppm	6406150	**18-999-1927**	79.90
Hydrogen Sulfide	100–2500ppm	6406220	**19-034-572**	80.10
Isopropanol	40–1000ppm	6406390	**19-640-390**	134.00
Mercaptaon	0.25–6.0ppm	6406360	**19-640-360**	111.88
Methanol	20–500ppm	6406380	**19-640-380**	111.88
MTBE	2–40ppm	6406530	**17-985-357**	94.69
Methylene Chloride	20–200ppm	6406510	**19-046-204**	91.90
Nitrogen Dioxide	0.5–25ppm	6406120	**18-999-1928**	65.87
Nitrous Gases	0.5–15ppm	6406060	**18-999-1929**	63.81
Nitrous Gases	10–200ppm	6406240	**19-640-240**	63.93
Oxygen	1–25% by volume	6406490	**19-042-722**	111.88
Ozone	25–1000ppb	6406430	**19-040-950**	91.90
Perchloroethylene	5–150ppm	6406040	**18-999-1930**	79.25
Petroleum Hydrocarbons	20–500ppm	6406200	**19-038-778**	99.83
Petroleum Hydrocarbons	100–3000ppm	6406270	**19-034-574**	91.90
Phosgene	0.05–2.0ppm	6406340	**19-640-340**	111.88
Phosphine	0.10–2.5ppm	6406400	**19-041-692**	81.92
Phosphine	1–25ppm	6406410	**19-640-401**	81.92
Phosphine	20–500ppm	6406420	**19-640-420**	81.92
Phosphine	200–5000ppm	6406500	**19-640-500**	82.91
Propane	100–2000ppm	6406310	**19-640-310**	91.90
Styrene	10–200ppm	6406560	**19-046-202**	91.90
Sulfur Dioxide	0.4–10ppm	6406110	**18-999-1931**	65.87
Sulfur Dioxide	5–150ppm	6406180	**19-034-575**	76.91
Toluene	10-300ppm	6406250	**19-034-576**	81.92
Training Chip	----	6406290	**19-640-290**	24.98
Trichloroethylene	5–100ppm	6406320	**19-640-320**	76.91
Vinyl Chloride	0.3–10ppm	6406170	**19-034-577**	81.92
Vinyl Chloride	10–25ppm	6406230	**19-034-578**	81.92
Xylene	10–300ppm	6406260	**19-034-579**	76.91

Thermo Scientific™ TruScan™ RM Next Generation Handheld Raman Analyzer

Performs rapid material identification at the point-of-need within seconds to decrease sampling costs and increase inventory turns

17-720-561

The TruScan RM analyzer offers an unparalleled solution for rapid material identification.

- Features highly selective Raman spectroscopy
- Fast, point of need raw material identification (10-15 seconds)
- Portable handheld and weighs less than 2 lbs (0.9kg)
- Clear PASS or FAIL results enable user independence and require no secondary interpretation
- Broad compound coverage includes cellulose based products
- Fast and easy method development through assisted signature/reference acquisition
- Intuitive workflow adapted to production environment through batch reports and ease of data input using barcode scanner
- Greatly reduces analysis cost and overall overhead
- Enhanced 21 CFR Part 11 and GMP compliance with biometric login, complex password options and full audit trail features
- Non-contact analysis through plastic bags, glass containers, blister packs and clear gel caps greatly eliminates potential staff exposure to hazardous chemicals and highly potent active pharmaceutical ingredients (API) during inspection
- Easy fleet management feature enable instrument and identification methods cloning
- 24/7/365 Live customer support
- Battery operated instrument (4 hours on a single charge)
- Qualification documentation and standard operating procedures available

Specifications	
Raman Spectrum Range	250 to 2875cm^{-1}
Spectral Resolution	8 to 10.5cm^{-1} (FWHM) across range
Laser (excitation wavelength)	785nm±0.5 nm, 2 cm^{-1} line width, stability <0.1 cm^{-1}
Laser Output Power	250 mW ±25 mW
Collection Optics	NA = 0.33, 18mm working distance; 0.2 to 2.5mm spot size
Exposure	Automatic modes (12 ms minimum)
Battery	Rechargeable internal lithium ion battery >4 hours operation
External Power Supply	DC Wall Adapter, 100-240VAC 50/60Hz
Weight	2 lb. (0.9kg)
Size	8.2 × 4.2 × 1.7" (20.8 × 10.7 × 4.3cm)
Operating Temperature	-20°C to +40°C (continuous)
Barcode Supported Symbologies	Most linear and 2D standards
Biometrics	Fingerprint reader for easy login
Measurement Accessories	Vial holder, universal tablet holder
Compliance	FDA 1040, 21 CFR part 11, CE certification

Description	Mfr. No.	Cat. No.	Price
TruScan RM Handheld Raman Analyzer with Discovery Library	800-00391-01	**17-720-561**	62,000.00

Radiation Protection

Thermo Scientific™ EPD™ Mk2 Electronic Personal Dosimeter

19-166-365

Ideal for detecting and monitoring radiation exposure

Handheld detector produces a linear response over a wide energy range and is suitable for use as a stand-alone dosimeter or as part of a comprehensive dosimetry management system.

- Advanced radiological performance in a small, lightweight unit
- Ergonomic rugged design with an alligator clip for convenience
- Excellent response to gamma, beta and x-radiation with immunity to electromagnetic interference
- Display and function control via a single button on the front of the unit
- Audible and visual alarms for dose, dose rate, countdown time, read time and failure mode
- Rapid infrared communications to reader/PC or stand-alone operation
- Easy-to-read display with optional backlighting
- Unit retains data up to 10 years without a battery
- Coin battery cap that opens with twist of a coin
- Functions in a temperature range from 5° to 105°F (-10° to +40°C); relative humidity, 20 to 90% (noncondensing)

ORDERING INFORMATION:

Dimensions (L × W × H): 0.75 × 2.5 × 3.25" (1.9 × 6.3 × 8.5cm).

Weight: 3.2 oz. (95g) including battery and clip. Single 3.6V lithium battery provides up to 30 weeks of continuous operation; also operates on AA alkaline battery.

COMPLIANCE: Complies with U.S. FCC rules (Part 15).

CERTIFICATIONS: CE mark.

EPD Mk2 Specifications	
Dose Display/Storage	0μSv to >16Sv (0 mrem to >1600 rem), autoranging
Dose Rate Display	0μSv/h to >4Sv/h (0 mrem/h to >400 rem/h); autoranging
Energy Range [Photon, Hp(10)]	15 keV to 17 keV (±50%) 17 keV to 1.5 MeV (±20%) 1.5 MeV to 6 MeV (±30%) 6 MeV to 10 MeV (±50%)
Energy Range [Photon, Hp(0.07)]	20 keV to 6 MeV (±30%) 6 MeV to 10 MeV (±50%)
Energy Range [Beta, Hp(0.07)]	250 keV to 1.5 MeV (±30%)

Mfr. No.	Cat. No.	Each
EPD/1/41945/120CC	**19-166-365**	901.25

Respirators

3M™ 6000 Series Cartridge/P100 Particulate Filter Combinations

Preassembled with P100 filters

- Can be used for contaminant concentration up to 10X the Permissible Exposure Limit (PEL) with half-facepiece respirators or 50X the PEL with full-facepiece respirators (when quantitatively fit-tested) or according to specific OSHA standards or applicable government regulations, whichever is lower
- Not for use in atmospheres that are unknown or immediately dangerous to life or health (IDLH)
- Cartridge/filter assemblies using P100 filters are 99.97% efficient against solid and liquid aerosols, including oils

ALERTS:

Do not exceed maximum use concentrations established by regulatory standards. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

18-999-4550

Approved for	Mfr. No.	Cat. No.	Pack of 2	Case of
Acid Gas/P100 Chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide; P100 (99.97% efficient against solid and liquid aerosols, including oils)	60922	**18-999-4549**	Pk. of 2/28.55	30 Pk./760.50
Ammonia/Methylamine/P100 Ammonia; methylamine; P100 (99.97% efficient against solid and liquid aerosols, including oils)	60924	**18-999-4551**	Pk. of 2/31.55	30 Pk./791.00
Formaldehyde[1]/Organic Vapor/P100 Formaldehyde; organic vapors; P100 (99.97% efficient against solid and liquid aerosols, including oils)[1]	60925	**18-999-4552**	Pk. of 2/31.80	30 Pk./771.50
Mercury Vapor/Chlorine/P100 Mercury vapor; chlorine; P100 (99.97% efficient against solid and liquid aerosols, including oils)	60929	**18-999-4553**	Pk. of 2/42.60	30 Pk./874.00
Multi-Gas/Organic Vapor/P100 Organic vapors; chlorine, chlorine dioxide, hydrogen chloride, sulfur dioxide, hydrogen fluoride, hydrogen sulfide; ammonia; methylamine; formaldehyde; P100 (99.97% efficient against solid and liquid aerosols, including oils)[1]	60926	**18-999-4567**	Pk. of 2/31.30	30 Pk./882.50
Organic Vapor/P100 Certain organic vapors; P100 (99.97% efficient against solid and liquid aerosols, including oils)	60921	**18-999-4548**	Pk. of 2/27.45	30 Pk./1182.00
Organic Vapor/Acid Gas/P100 Certain organic vapors; chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, hydrogen sulfide; P100 (99.97% efficient against solid and liquid aerosols, including oils)	60923	**18-999-4550**	Pk. of 2/27.85	30 Pk./836.50
Organic Vapor/Acid Gas/P100[2] Certain organic vapors; chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, hydrogen sulfide; P100 (99.97% efficient against solid and liquid aerosols, including oils). 3M recommended for use against radioiodine or methyl bromide up to 5ppm with daily cartridge change.	60928	**19-096-901**	----	60/1151.58

1 OSHA regulations require that gas-proof goggles be worn with half-facepiece respirators when used against formaldehyde. For information about appropriate goggle selection, contact your Fisher Safety Customer Service Representative.

[2] See 3M Technical Data Bulletin #146 for specific usage recommendations.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Cartridges for 3M™ 6000 Series Respirators

Without P100 Filters

Respiratory protection for workers

17-986-11B

For use with 3M Facepieces 6000 Series or 3M Facepieces 7000 Series with bayonet cartridge holders against a variety of gases, vapors and particulate hazards according to NIOSH approvals.

- For contaminants up to 10X the Permissible Exposure Limit (PEL) with half-facepiece respirators or 50X the PEL (when quantitatively fit tested) with full-facepiece respirators or according to specific OSHA standards or applicable government regulations, whichever is lower
- Not for use in atmospheres that are unknown or immediately dangerous to life or death (IDLH)

NOTES: Do not exceed maximum use concentrations established by regulatory standards. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Cartridge Type	Approved for	Mfr. No.	Cat. No.	Pack of 2	Case of 30 Pk.
Acid Gas	Chlorine, hydrogen chloride, sulfur dioxide, chlorine dioxide and hydrogen sulfide	6002	**17-986-11B**	16.41	424.50
Ammonia/Methylamine	Ammonia and methylamine	6004	**17-986-11D**	18.10	468.50
Formaldehyde/Organic Vapors	Formaldehyde and organic vapors[1]	6005	**17-986-11E**	18.27	473.00
Mercury Vapor/Chlorine Gas	Mercury vapor and chlorine gas	6009	**18-306**	26.83	804.27
Multi-Gas/Vapors	Certain organic vapors; chlorine, chlorine dioxide, hydrogen chloride, sulfur dioxide, hydrogen fluoride, hydrogen sulfide; ammonia; methylamine; formaldehyde[1]	6006	**18-999-4566**	17.95	398.32
Organic Vapor	Certain organic vapors	6001	**17-986-11A**	16.85	369.75
Organic Vapor/Acid Gas	Certain organic vapors, chlorine, hydrogen chloride and sulfur dioxide; hydrogen sulfide; or hydrogen fluoride	6003	**17-986-11C**	16.09	416.50

[1] OSHA regulations require that gas-proof goggles be worn with half-facepiece respirators when used against formaldehyde. For information about appropriate goggle selection, contact your Fisher Scientific Customer Service Representative.

3M™ 6000 Series Reusable Full Facepiece

Requires limited maintenance time — reducing need for expensive repair programs

18-999-4556

- No retainers or extra parts needed to attach filters, cartridges or dual airline
- Soft, lightweight facepiece material and easy-to-use headstraps
- Large lens with scratch-resistant hardcoat

REQUIRES:
Compatible cartridges and/or filters (sold separately).
Compatible with Series 2000 and 7093 filters and Series 6000 cartridges.

CERTIFICATIONS:
NIOSH approved for 3M Negative Pressure Air-Purifying Respirators, Positive-Pressure Dual Airline Respirators and some 3M PAPRs (with DIN adapter).

NOTES:
These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Size	Mfr. No.	Cat. No.	Each
Small	6700	**18-999-4555**	164.70
Medium	6800	**18-999-4556**	164.70
Large	6900	**18-999-4557**	164.70

3M™ 6000 Series Reusable Half Facepiece

Combines features of both reusable and disposable respirators to provide effective protection

17-986-9B

- Lightweight half facepiece features adjustable headstraps and cradle suspension
- Low-profile facepiece offers excellent visibility and allows comfortable wearing of safety spectacles
- Backswept cartridges balance better on the face while their large surface area ensures low breathing resistance

ORDERING INFORMATION:
Probed models for fit test only — not for use as a respirator. Cartridge/filter combinations sold separately.

INCLUDES: Reclosable storage bag

REQUIRES: Facepiece requires compatible cartridges and/or filters. (Sold separately.)

CERTIFICATIONS:
NIOSH approved under 42CFR84 for use against a variety of respiratory hazards, when used as designed with appropriate cartridges and filters.

NOTES: These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Size	Mfr. No.	Cat. No.	Each	Case of
Facepiece without filters				
Small	6100	**17-986-9A**	17.00	24/335.55
Medium	6200	**17-986-9B**	17.00	24/335.55
Large	6300	**17-986-9C**	17.00	24/335.55
Probed models for fit test only				
Medium	6200Q	**17-987-3A**	40.75	4/148.00
Large	6300Q	**17-987-3B**	40.75	4/148.00

3M™ 9200 Series N95 Filtering Facepiece Particulate Respirators

Offer a comfortable fit that conforms to a wide range of face sizes

- Available with Cool Flow™ one-way exhalation valve for easy exhalation and cool, dry comfort in work settings that involve heat, humidity or long periods of wear
- Three-panel construction resists collapse and provides better visibility
- Soft cover web on inner panel feels soft against skin
- Standard adjustable nose clip for custom fit and secure seal

APPLICATIONS:
Grinding, bagging, sanding, sweeping and other dusty operations

ORDERING INFORMATION:
Individually packaged to prevent contamination and for easy dispensing.

COMPLIANCE:
Meet NIOSH 42CFR84 N95 requirements.

19-041-427

ALERTS:
Do not exceed maximum use concentration established by regulatory standards. If respirator becomes damaged, soiled or breathing becomes difficult, leave the contaminated area and dispose of the respirator. Before each use of the product, please inspect for any rips, damage, tears, etc. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Filter Class	Exhalation Valve	NIOSH Approval	Mfr. No.	Cat. No.	Pack of	Case of 12 Pk.
N95	No	TC-84A-2669	9210	**19-041-427**	20/35.40	323.00
N95	Yes	TC-84A-2668	9211	**19-041-429**	10/32.15	284.50

3M™ N100 and P100 Filtering Facepiece Respirators

Workplace applications include OSHA substance-specific particle exposure in concentrations up to 10X the OSHA PEL

Application

- For use when grinding, welding, working with lead or other situations where arsenic, lead or cadmium are present up to 10X the OSHA PEL
- Use N100 filter in non-oil environments to reduce exposure to lead, cadmium, arsenic and 4,4-methylene dianiline
- P100 filter can be used to reduce exposure to a variety of contaminants in both oil and non-oil environments

Design

- Feature adjustable buckle straps, standard adjustable nose clip, Cool Flow™ exhalation valve and conforming faceseal

CERTIFICATIONS:
Meet NIOSH 42CFR84 standards.

19-002-711

ALERTS:
Do not exceed maximum use concentration established by regulatory standards. If respirator becomes damaged, soiled or breathing becomes difficult, leave the contaminated area and dispose of the respirator. Before each use of the product, please inspect for any rips, damage, tears, etc. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Filter Class	NIOSH Approval	Mfr. No.	Cat. No.	Each	Case of 20
N100[1]	TC-84A-1298	8233	**19-002-711**	12.54	192.70
P100[2]	TC-84A-2561	8293	**19-037-352**	14.75	254.00

[1] NIOSH N100 approved: At least 99.97% filtration efficiency against solid and liquid aerosols that do not contain oil.
[2] NIOSH P100 approved: At least 99.97% filtration efficiency against solid and liquid aerosols including oil. If used in environments containing only oil aerosols, dispose of respirator after 40 hours of use or 30 days, whichever is first.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

3M™ Filtering Facepiece Particulate Specialty Respirators

Be able to work, even in odorous environments

Applications

- AG Nuisance Odor Relief Respirators are used primarily aluminum reductions, chemical processing, glass etching, paper mills and petrochemical industries when particles are present with concentrations of chlorine, hydrogen fluoride or sulfur dioxide below the OSHA PEL. OV Nuisance Odor Relief Respirators are used for applications such as foundries, undercoating, petroleum operations and agricultural situations when particles are present with concentrations of organic vapors below the OSHA PEL

Design

- Choice of standard or M-style adjustable nose clips; M-nose clips adjust easily for fewer pressure points and greater comfort
- Feature braided comfort straps

19-002-707

ALERTS:
Do not exceed maximum use concentration established by regulatory standards. If respirator becomes damaged, soiled or breathing becomes difficult, leave the contaminated area and dispose of the respirator. Before each use of the product, please inspect for any rips, damage, tears, etc. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Filter Class	Exhalation Valve	Nuisance Odor Relief	Nose Clip	NIOSH Approval	Mfr. No.	Cat. No.	Pack of	Case of
R95[1]	No	AG[2]	Standard	TC-84A-1350	8246	**19-002-707**	20/91.70	6 Pk./463.50
R95[1]	No	OV[3]	Standard	TC-84A-1350	8247	**19-002-705**	20/93.00	6 Pk./461.00
P95[4]	Yes	AG[2]	M-nose clip	TC-84A-1166	8576	**19-002-718**	10/60.80	8 Pk./422.50
P95[4]	Yes	OV[3]	M-nose clip	TC-84A-1166	8577	**19-002-719**	10/61.30	8 Pk./427.00
N95[2]	Yes	AG[1]	M-nose clip	TC-84A-1299	8516	**19-038-990**	10/49.70	10 Ea./49.70

[1] NIOSH R95 approved: At least 95% filtration efficiency against solid and liquid aerosols including oil. If oil aerosols are present, time of use may be limited to eight hours of continuous or intermittent use. Refer to NIOSH User's Guide, Pub. No. 96-101.
[2] 3M recommended for relief against nuisance levels of acid gas. Nuisance level refers to concentrations below OSHA PEL or other applicable government occupational exposure limits, whichever is lower.
[3] 3M recommended for relief against nuisance levels of organic vapors. Nuisance level refers to concentrations below OSHA PEL or other applicable government occupational exposure limits, whichever is lower.
[4] NIOSH P95 approved: At least 95% filtration efficiency against solid and liquid aerosols including oils. If used in environments containing only oil aerosols, dispose of respirator after 40 hours of use or 30 days, whichever is first.

3M™ N95 and P95 Filtering Facepiece Respirators

Provide excellent, lightweight worker protection

- Choice of standard or M-style adjustable nose clips; M-nose clips adjust easily for fewer pressure points and greater comfort
- Available with optional exhalation valve and faceseal
- 19-033-524 is similar to 18-999-473, but designed for workers with smaller faces; 18-999-473 features welded strap attachment
- 19-002-709 and -713 feature braided comfort straps

APPLICATIONS:
For use in grinding, sanding, sweeping and other dusty operations. Exhalation valve makes 19-002-713 and 19-002-709 suitable for hot operations like bagging and the P95-classified 19-002-709 is further suitable for oily operations such as machining.

CERTIFICATIONS:
Meet NIOSH 42CFR84 standards

18-999-473

ALERTS:
Do not exceed maximum use concentration established by regulatory standards. If respirator becomes damaged, soiled or breathing becomes difficult, leave the contaminated area and dispose of the respirator. Before each use of the product, please inspect for any rips, damage, tears, etc. These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

Filter Class	Exhalation Valve	Faceseal	Nose Clip	NIOSH Approval	Mfr. No.	Cat. No.	Pack of	Case of 8 Packs
N95[1]	No	No	Standard	TC-84A-0007	8110S	**19-033-524**	20/26.25	164.00
N95[1]	No	No	Standard	TC-84A-0007	8210	**18-999-473**	20/34.85	149.00
N95[1]	Yes	No	M-nose clip	TC-84A-1299	8511	**19-002-713**	10/34.35	174.92
P95[2]	Yes	Yes	M-nose clip	TC-84A-1166	8271	**19-002-709**	10/49.05	309.50

[1] NIOSH N95 approved: At least 95% filtration efficiency against solid and liquid aerosols that do not contain oil.
[2] NIOSH P95 approved: At least 95% filtration efficiency against solid and liquid aerosols including oil. If used in environments containing only oil aerosols, dispose of respirator after 40 hours of use or 30 days, whichever is less.

Kimberly-Clark™ PFR95™ N95 Particulate Filter Respirators

Pouch-style design provides large breathing area with limited facial contact

18-999-1445

- Bendable aluminum nosepiece for comfortable, secure fit
- Large breathing chamber
- Two polyurethane headbands secure the mask to the face to help ensure a tight facial seal and prevent leakage around the mask edges
- Bacterial filtration efficiency: 95% at 0.3µm
- Fluid Protector mask features patented construction that provides protection from bloodborne pathogens and body fluids

COMPLIANCE:
Meet NIOSH 42CFR84 N95 requirements.

Size	Color	Mfr. No.	Cat. No.	Pack of
PFR95 N95 Respirator with Fluid Protection				
Small	Orange	46827	**18-999-1444**	35/76.80
Regular	Orange	46727	**18-999-1445**	35/77.50
Standard PFR95 N95 Respirator (No fluid protection)				
Regular	White	62126	**18-999-4812**	50/72.20

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3M™ Versaflo™ TR-300 PAPR Series Complete System Kits

Ready-to-use HE PAPR system

Belt-mounted powered air purifying respirator (PAPR) systems.

- TR-300-ECK: Perfect for many pharmaceutical, healthcare and food and beverage applications

19-039-551

ALERTS:
Before use, the wearer must read and understand the USER Instructions provided as a part of the product packaging.
A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in sickness or death.

Description	Mfr. No.	Cat. No.	Each
Easy Clean PAPR Kit	TR-300-ECK	**19-039-551**	1293.36

3M™ Air-Mate™ High-Efficiency Belt-Mounted PAPR System Assembly

All-in-one design provides both comfort and safety

Lightweight, high-efficiency PAPR assembly includes High Efficiency (HE) air filter, airflow indicator, battery pack and belt.

- Help protect against airborne particulates that have a concentration of up to 25 × PEL using the BE-12 series head cover made with Tychem™ QC or 1000 × PEL using the BE-10 series hood made with Tychem QC. Rechargeable NiCd battery provides up to eight hours of continuous use.

19-039-701

INCLUDES:
Hood or head cover; breathing tube, belt-mounted high efficiency PAPR assembly; battery charger

NOTES:
These safety products must be used in accordance with the user instructions, warnings and limitations accompanying each product.

Mfr. No.	Cat. No.	Each
231-01-30	**19-039-701**	585.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

3M™ Air-Mate™ High-Efficiency Belt-Mounted PAPR System Breathing Tube

Flexible hose connects Air-Mate™ Belt-Mounted PAPR Assembly to head cover or hood.

- Help protect against airborne particulates that have a concentration of up to 25 × PEL using Head Cover or 1000 × PEL using Hood. Rechargeable NiCd battery provides up to eight hours of continuous use.

18-039

To assemble a complete system, select from the following pieces:

- Head cover or hood
- Breathing tube
- Air-Mate Belt-Mounted PAPR Assembly
- Battery Charger

(For additional information or to order individual components, see separate listings by pasting Cat. No. in search field. A Fisher Safety Sales Representative can help you identify which components are most suitable for your application.)

INCLUDES:
Head cover, hood, breathing tube, PAPR assembly, battery chargers

NOTES:
These safety products must be used in accordance with the user instructions, warnings and limitations accompanying each product.

Description	For Use with	Mfr. No.	Cat. No.	Each
Belt-mounted PAPR Breathing Tube Assembly	HEPA 10, 12, 16	BE-224	**18-039**	48.20

3M™ Air-Mate™ Replacement Parts

Replacement Parts for Air-Mate™ PAPR Assembly

18-043

- Help protect against airborne particulates that have a concentration of up to 25 × PEL using Head Cover or 1000 × PEL using Hood. Rechargeable NiCd battery provides up to eight hours of continuous use.
- To assemble complete system, select from the following pieces:
- Head cover or hood
- Breathing tube
- Air-Mate Belt-Mounted PAPR Assembly
- Battery Charger

NOTES:
These safety products must be used in accordance with the user instructions, warnings and limitations accompanying each product.

Description	Mfr. No.	Cat. No.	Each
High Efficiency (HE) Air Filter Unit[1]	520-03-63R01	**18-033**	389.00
Airflow Indicator	021-14-00R01	**18-035**	14.51
High Efficiency (HE) Filter with Gasket	451-02-01R01	**18-043**	43.45
Battery Pack	007-00-15R01	**18-037**	167.59

[1] *Excludes battery pack, belt and filter.*

3M™ Battery Packs and Chargers for Breathe-Easy™ PAPR

Turbo PAPR System Battery Packs and Chargers

19-130-4871

Batteries replace those from Breathe-Easy™ PAPR assemblies. The Breathe Easy has two common batteries, the BP-15 NiMH battery and the BP-17IS NiCd battery (Intrinsically Safe). NiCd chargers also suit NiCd batteries from Air-Mate™ PAPRs. NiMH and NiCd chargers and batteries not compatible.

- Help protect against airborne particulates that have a concentration of up to 25 × PEL using Head Cover or 1000 × PEL using Hood. Rechargeable NiCd or NiMH battery provides up to eight hours of continuous use.
- 3M Breathe Easy Belt-Mounted PAPRs

To assemble a complete system, select from the following pieces:

- Head cover or hood
- Breathing tube
- Belt-Mounted PAPR Assembly
- Battery Charger

INCLUDES:
Head covers, hoods, breathing tube, PAPR assembly, Battery chargers

NOTES:
These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Description	For Use with	Mfr. No.	Cat. No.	Each
Batteries				
Battery Pack, NiMH	All Cartridges	BP-15	**19-130-4871**	418.50
Smart Charger, 120V				
Single Unit	NiCd Battery	520-03-73	**18-783A**	223.71
5-Unit	NiCd Battery	520-03-72	**18-783B**	1240.28
10-Unit	NiCd Battery	520-01-61	**17-987-270**	1898.80
Battery, Single-Unit	NiMH Battery	BC-210	**19-130-4872**	260.00

3M™ Breathe Easy™ Belt-Mounted Turbo PAPR Assemblies

Choose from two styles

19-039-715

Each assembly includes motor blower, belt, airflow indicator and battery pack. For use with appropriate 3M filter, filter/cartridge or canister and respirator headpiece.

To assemble a complete system, select from the following pieces:

- Headgear, facepiece, head cover or hood
- Compatible breathing tube
- Breathe Easy belt-mounted Turbo PAPR assembly
- Appropriate cartridge/filter pack for your application
- Battery pack and charger

NOTES:
These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Description	Mfr. No.	Cat. No.	Each
For Use with All Filters/Cartridges	520-15-00	**19-037-980**	766.50
For use only with 450-00-01R12 HE (P3) filter - Intrinsically Safe	520-17-00	**19-039-715**	729.72

3M™ Breathe-Easy™ Belt-Mounted PAPR System Breathing Tubes

Flexible, accordion-style hoses connect Turbo PAPR assembly to headgear

19-526-013

To assemble a complete system, select from the following pieces:

- Headgear, facepiece, head cover or hood
- Compatible breathing tube
- Breathe Easy belt-mounted Turbo PAPR assembly
- Appropriate cartridge/filter pack for your application
- Battery pack and charger

ALERTS:
All safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product. Misuse may result in sickness or death.

For Use with	Mfr. No.	Cat. No.	Each
Breathing Tubes			
General Purpose and Welding Headgear	526-01-13R01	**19-526-013**	124.50
Hood	520-01-00R01	**19-520-010**	57.90
Head Cover	520-03-32R01	**19-520-032**	49.05
Full-Facepiece	520-01-77	**19-520-017**	137.66
S-Series Hoods	BE-324	**19-805-594**	49.31
Breathing Tube Clamp			
Breathing Tube Clamp	526-01-13R01	**19-813-724**	6.12

3M™ Breathe Easy™ Filters, Cartridges and Canisters

Filter Media for 3M™ Breathe Easy™ Turbo PAPR

Nonstacked Cartridge

Do not exceed maximum use concentrations established by regulatory standards.

- Nonstacked media consists of chemical cartridge or high-efficiency filter only
- Stacked cartridges combine both cartridge and filter
- Stacked cartridges are not for use with intrinsically safe motor blower
- 3M Breathe Easy Belt-Mounted PAPRs

To assemble a complete system, select from the following pieces:

- Headgear, facepiece, head cover or hood
- Compatible breathing tube
- Breathe Easy belt-mounted PAPR assembly
- Appropriate cartridge/filter pack for your application
- Battery pack and charger

NOTES:
These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

Media Type	Approved for	Use with PAPR Assembly Cat. No.	Mfr. No.	Cat. No.	Pack of
AEP3 Cartridge/Filter	Certain organic vapors, sulfur dioxide, chlorine, hydrogen chloride and high efficiency particulate filtration	19-037-980 only	453-03-01R06	**17-987-272G**	6/294.00
ALP3 Cartridge/Filter	Certain organic vapors, sulfur dioxide, hydrogen fluoride and high efficiency particulate filtration	19-037-980 only	453-07-01R06	**17-988-398**	6/283.81
AP3 Cartridge/Filter	Certain organic vapors and high efficiency particulate filtration	19-037-980 only	453-00-01R06	**17-987-272F**	6/272.70
EP3 Cartridge/Filter	Sulfur dioxide, chlorine, formaldehyde, hydrogen chloride and high efficiency particulate filtration	19-037-980 only	453-01-01R06	**17-987-272H**	6/280.50
KP3 Cartridge/Filter	Ammonia, methylamine and high efficiency particulate filtration	19-037-980 only	453-02-01R06	**17-987-272J**	6/280.50
P3 High Efficiency Filter	High efficiency particulate filtration	19-039-715 or 19-037-980	450-00-01R12	**17-987-272E**	12/266.13

Note: PAPR cartridges 17-987-272A, -B, -C, -D and -J are not for use with Welding Helmet 19-039-716.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

3M™ Breathe-Easy™ Headgear Replacement Parts

- For use with 3M Breathe Easy Belt-Mounted Turbo PAPRs

To assemble a complete system, select from the following pieces:

- Headgear, facepiece, head cover or hood
- Compatible breathing tube
- Breathe Easy belt-mounted Turbo PAPR assembly
- Appropriate cartridge/filter pack for your application
- Battery pack and charger

NOTES: These safety products must be used in accordance with the user instructions, warnings and limitations accompanying each product.

Description	Mfr. No.	Cat. No.	Each
Protective Overlay	529-02-37R10	**17-987-250C**	16.56
Helmet shell	5200133R01	**19-813-713**	208.58

3M™ Hoods and Head Covers

Hood (BE 10)

- Includes disposable polycoated Tychem hood that covers the shoulders and chest, with a clear, wide-view acetate visor
- Air enters from the breathing tube (sold separately), passes over the user's head and out at the base of the cape
- Accommodates most facial hair and spectacles
- Weighs 3.2 oz. (0.1kg)
- Supplied in packs of three hoods

Head Cover (BE 12)

- Includes a liquid-repellent, polycoated Tychem head cover with a clear, wide-view acetate visor
- Comes with three regular or large-sized head covers in choice of white or blue
- Help protect against airborne particulates that have a concentration of up to 25 × PEL using Head Cover or 1000 × PEL using Hood. Rechargeable NiCd battery provides up to eight hours of continuous use.

To assemble a complete system, select from the following pieces:

- Head cover or hood
- Breathing tube
- Air-Mate Belt-Mounted PAPR Assembly
- Battery Charger
- For additional information or to order individual components, a Fisher Safety Sales Representative can help you identify which components are most suitable for your application.

NOTES:
These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

18-778A (BE 12)

Description	Mfr. No.	Cat. No.	Pack of
Hoods (BE 10)			
Regular	BE-10-3	**17-987-255B**	3/127.60
Large	BE-10L-3	**19-039-711**	3/149.30
Head Covers (BE 12)			
Regular, White	BE-12-3	**18-778A**	3/118.70
Regular, Blue	BE-12B-3	**19-039-699**	1/35.84
Large, White	BE-12L-3	**18-778B**	3/118.70
Regular; White	BE-12-50	**18-778-100**	1/30.02
Large, Blue	BE-12LB-3	**19-039-714**	3/107.53

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

Showers and Eyewashes

Bel-Art™ Scienceware™ PLUM™ Emergency Eyewash and Skinwash

Instant access to fast, safe and effective first aid for eye and skin injuries

10-029-234

- Convenient, wall-mountable stations
- Bottles are sterile filled and sealed and require no maintenance or cleaning
- Stations feature clear instructional pictograms; 10-029-234, 10-029-235, 10-029-236 and 10-029-237 also include mirror
- Eyewash stations 10-029-236 and 10-029-237 are equipped with 200mL sterile pH neutralizing eyewash solution and 500mL sterile saline eyewash solution; provide two minutes of rinsing time for pH neutralizing solution and five minutes for saline
- Flexible, form-fitting eyecups ensure gentle and efficient rinsing

Eye Wash Station Refills

- Bottles contain a sterile 0.9% sodium chloride solution (saline) for rinsing dust and debris or a 4.9% sterile phosphate buffer (pH neutralizing) solution to quickly neutralize acids and alkalis
- Bottles have clear first aid instructions, twist-open design for quick access and a built-in eye cup with dust cap
- Use to refill eye wash stations or take to job sites as part of first aid kits
- Bottles require no maintenance and have a three-year shelf life from date of manufacture

COMPLIANCE:
Meet all U.S. federal regulations. Comply with ANSI™ standards. NDC# and expiration date printed on every bottle.

Description	Mfr. No.	Cat. No.	Each
Sterile Saline Stations			
Single Station (1 × 500mL)	248804001	**10-029-233**	37.35
Single Station (1 × 1000mL)	F248804010	**19-991-001**	52.90
Double Station (2 × 500mL)	248804002	**10-029-234**	47.40
Double Station (2 × 1000mL)	F248804012	**19-991-002**	65.80
Covered, Double Station (2 × 500mL)	248805002	**10-029-235**	60.70
pH Neutralizing and Sterile Saline Stations			
Double Station	248804003	**10-029-236**	69.60
Covered, Double Station	248805003	**10-029-237**	82.20
Refills			
200mL Saline	24880023	**10-029-230**	Pack of 3/36.00
500mL Saline	248800053	**10-029-232**	Pack of 3/40.60
1000mL Saline	F248800103	**19-991-000**	Pack of 3/61.90
200mL pH Neutralizing	248801023	**10-029-231**	Pack of 3/47.15

Honeywell™ 2000 Emergency Eyewash Station

Delivers a steady, soft ribbon of 100% sterile saline from a 100% sterile delivery system

Self-contained eyewash boasts various features that promote compliance with ANSI™ 15-minute flushing requirement. Delivers up to 6.87 gal. (26L) of 100% sterile saline solution.

19-811-406

- Sterility ensures a contaminant-free rinsing environment and helps to minimize further injury
- Alarm sounds upon both activation and completion, ensuring 15-minute flush time
- Deactivation button eliminates false triggers during maintenance
- Cartridge change takes less than five minutes
- Features arm/headrest for user comfort and an integrated waste containment system

ORDERING INFORMATION:
Dimensions: 34.75 × 17.5 × 15.5" (88.3 × 44.4 × 39.4cm).
Weighs 24 lb. (10.9kg)

INCLUDES:
Emergency eyewash station sign, mounting bracket, installation DVD and tamperseal

REQUIRES:
Separately sold sterile saline cartridge (Cat. No. 19-412-636).

WARRANTY:
One-year manufacturer's warranty

COMPLIANCE:
Constant flowrate meets ANSI Z358.1-2004.

Description	Mfr. No.	Cat. No.	Each
English-language version	32-002000-0000	**19-811-406**	535.00

DID YOU KNOW...

For more than a century, Fisher Safety has been helping customers in various industries to protect what matters most at their facilities. Companies worldwide rely on Fisher Safety to provide tailored end-to-end solutions for their facilities. Serving the customer has always been Fisher Safety's focus, and we continue to be driven by putting the customer first.

Visit **www.fishersafety.com** for more details.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Honeywell™ Pure Flow 1000 Portable Emergency Eyewash Station

Self-contained, gravity-fed emergency eyewash

18-999-265A

Delivers 7 gal. (26.4L) saline solution — purified, contaminant-free and physiologically correct — from a sealed, integrated delivery module.

- Highly visible green color provides easy identification in an emergency situation
- Sure-grip handle provides instant, simple activation
- Activation straps display expiration date
- Integral drain valve allows easy draining of reservoir after use
- Integral fluid reservoir captures waste fluid, eliminating potential safety hazards and simplifying fluid disposal
- Cover keeps dirt and trash from collecting in the basin and nozzle
- Unit can be serviced in five minutes or less
- With provision for locking device

INCLUDES:
Vinyl eyewash sign, 8 × 10" (20.3 × 25.4cm)

REQUIRES:
Two solution cartridges (Cat. No. 18-999-265B, sold separately).

COMPLIANCE:
Constant flowrate meets ANSI™ Z358.1-2004.

Mfr. No.	Cat. No.	Each
32-001000-0000	**18-999-265A**	625.00

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location. Visit **www.fishersci.com/movingon** to learn more.

Honeywell™ Eyesaline Porta Stream Portable Eyewash Stations

Totally self-contained stations for areas without access to plumbed water

17-292-1A

Gravity-fed systems provide employees with soothing relief in emergency situations. Porta Stream™ models come with Eyesaline™ concentrate that, when mixed with tap water, produces an isotonic solution physiologically similar to human tears.

Porta Stream™ I Station (6 minutes)

- Bright green color is highly visible, even to those with impaired vision
- Constructed of high-impact polyethylene with a 6 gal. tank
- Two full-flow nozzles cover a wide facial area for immediate relief
- Simple to use — just remove the nozzle strap and hands-free flushing is activated
- May be mounted on a table
- Comes with 70 oz. (2.0L) of Eyesaline™ concentrate
- Measures 16L × 13-1/2W × 24"H (41 × 34 × 61cm)
- **Note:** This device is classed as a secondary (personal) device and is intended to supplement and not replace a 15-minute flush capability primary device.

Porta Stream II Station (15 minutes)

- Same standard features as the Porta Stream I eyewash, but with 16 gal. (61L) tank and lockable fill cap to reduce the risk of tampering
- Comes with 180 oz. (5.3L) of Eyesaline concentrate/water additive, a green and white vinyl eyewash sign and cast-iron hanging bracket for installation on any flat or vertical surface
- Measures 19-1/2L × 19-1/2W × 26"H (50 × 50 × 66cm)

CERTIFICATIONS:
Porta Stream II station is SEI-certified to meet ANSI™ Z358.1-2004 requirements as 15-min. flush capability primary device.

ALERTS:
Note: Since the first few seconds of an eye injury are critical, a portable eyewash station will provide immediate relief until the worker has access to either a plumbed station or a shower. Portable stations support a plumbed or self-contained drenching facility. They do not take the place of a 15-minute flushing facility.

Description	Volume Dispensed/ Time	Fluid Supplied	Mfr. No.	Cat. No.	Each
Porta Stream I	6 gal./6 min.	Eyesaline Concentrate	32-000100-0000	**17-292-1A**	348.00
Porta Stream II	16 gal./15 min.		32-000200-0000	**17-292-1B**	488.00

Honeywell™ Saline Cartridges for Honeywell™ Pureflow 1000 Portable Emergency Eyewash Stations

Sperian Saline Cartridges for Fend All Pureflow 1000 Portable Emergency Eyewash Stations

- Solution modules for Pure Flow 1000 Emergency Eyewash
- Each cartridge contains 3.5 gal. (13.2L) of saline solution
- Tri-lingual (English, Spanish, French)
- 24-month cartridge life

18-999-265B

ORDERING INFORMATION:
Each case contains two cartridges.

INCLUDES:
Nozzle assembly, delivery hose and solution cartridges

Description	Mfr. No.	Cat. No.	Case of 2
Saline	32-001050-0000	**18-999-265B**	247.50

Honeywell™ Saline Refill Bottles for Wall Stations

Use as refills for wall-mounted stations or individually

- Easy-open top
- User-controlled flush volume
- 36-month shelf life
- Two sizes available
- Works with most wall-mount eyewash stations

19-003-030

Size	Mfr. No.	Cat. No.	Each	Case of 12
16 oz. (473mL)	32-000454-0000	**19-003-030**	16.67	164.30
32 oz. (946mL)	32-000455-0000	**19-003-033**	21.55	214.50

Honeywell™ Saline Wall Stations

Easily mounted in hazardous areas to provide immediate relief in case of eye injury

Choose from 16 or 32 oz. (473 or 946mL) bottles.

- Highly visible, with full emergency-use instructions on front
- Made from sturdy, high-impact plastic
- Bottles are single-use only with snap-off tops for quick and easy access
- Bottles have extended flow nozzles; 32 oz. bottles have integral grip for ease of use in an emergency

19-003-031

ORDERING INFORMATION:
Refill bottles sold separately.

COMPLIANCE:
Does not meet the criteria of plumbed or self-contained eyewash equipment.

ALERTS:
Since the first few seconds of an eye injury are critical, an eyewash bottle station will provide immediate relief until the worker has access to either a plumbed station or a shower. Eyewash bottles support a plumbed or self-contained drenching facility. They do not take the place of a 15-minute flushing facility.

Description	Mfr. No.	Cat. No.	Each	Case of
Single Station				
16 oz. (473mL)	32-000460-0000	**19-003-029**	----	8/294.50
32 oz. (946mL)	32-000461-0000	**19-003-031**	59.30	8/394.00
Double Station				
32 oz. (946mL)	32-000462-0000	**19-003-035**	----	4/245.00

Honeywell™ Solutions for Eyesaline Porta-Stream Portable Eyewash Stations

- Available in concentrate/Saline form to refill bottles in Porta Stream™ wall-mounted stations or to replace untreated water in other portable eyewash equipment.
- Concentrate 70 oz. (2L) bottle makes about 6 gal. (22.8L)
- Concentrate 180 oz. (5.3L) bottle makes about 16 gal. (60.6L)
- Saline 128 oz. (3.8L) is ready-to-use solution

17-292-3J, 17-292-3N and 17-292-3C

Solution Type	Capacity	Mfr. No.	Cat. No.	Each	Case of
Concentrate	70 oz. (2L	32-000509-0000	**17-292-3J**	65.80	6/330.00
Concentrate	180 oz. (5.3L	32-000513-0000	**17-292-3N**	126.80	4/427.50
Premix	128 oz. (3.8L)	32-000502-0000	**17-292-3C**	40.65	4/427.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Honeywell™ Saline Cartridge for Pureflow 1000 and 2000 Eyewash Stations

Sterile Saline Cartridge for Sperian Fendall Pureflow 1000 and 2000 Emergency Eyewash Stations

19-412-636

- Each cartridge contains 6.87 gallons (26L) of 100% sterile saline solution
- 24-month cartridge life reduces the cost of replacement and saves inspection time; cartridge expiration date is easily viewed through side windows of eyewash unit

INCLUDES:
Nozzle assembly and delivery hose

Mfr. No.	Cat. No.	Each
Sperian Sterile Saline Cartridge for Fendall Pure Flow 1000 and 2000 E; For Fendall 2000 Station		
32-ST2050-0000	**19-412-636**	365.00
Sperian Sterile Saline Cartridge for Fendall Pure Flow 1000 and 2000 E; For Fendall 1000 Station		
32-ST1050-0000	**19-175-434**	353.50

Haws™ Model 7620 AXION eyePOD Faucet-Mounted Eyewash

Removes contaminants away from vulnerable nasal cavity

19-033-732

AXION eyePOD faucet mounted eyewash provides a Medically Superior Response consistent with all EMT, emergency room and doctors' office protocols. Traditional eyewashes irrigate from the outside edge of the eye back toward the nose, where contaminants can then be flushed into the nasal cavity through the lacrimal punctum, nature's ocular cavity drain.

- Simple to install on standard faucets
- Easy rotation for on/off operation
- Inverted water flow pattern for superior eye protection
- Safety shut-off valve to prevent scalding at high temperatures
- Material: Stainless-steel
- Durable

Description	Mfr. No.	Cat. No.	Each
Stainless-steel, faucet-mounted eyewash	7620	**19-033-732**	353.50

Bradley™ Halo™ Pedestal-Mount Eyewashes

Deliver effective eye washdown coverage and spray pattern

19-120-567

Save space and fits into any work environment.

- Barrier-free, fully-assembled and factory-tested
- Operated by ergonomic, highly visible push handle providing effective wash down coverage and spray pattern
- Integral strainer reduces debris in water thus prevents clogging
- The Aquaduct™ self-draining design with seperate supply and waste pipes
- 1/2" NPT water supply inlet piping on unit and 1.25" NPT drain outlet for eyewash
- NPT, Yellow BradTect™ galvanized steel pipes
- Chrome-plated brass ball valve with extended Type 304 stainless-steel push handle
- Yellow impact-resistant plastic or Type 304 corrosion-resistant stainless-steel bowl
- Heavy-gauge sand cast aluminum protected with BradTect™ safety yellow coating
- Integral water flow of 4.8 gpm at 30psi
- ABS plastic perforated sprayhead provides soft spray for cleansing eyes and face
- Contains antimicrobial agent
- 8' (2438mm) yellow reinforced thermoplastic hose having $^{3}/_{8}$" NPT male thread
- Burst strength: 450psi

INCLUDES:
Universal identification sign and inspection tags

COMPLIANCE:
Exceeds ANSI Standard Z358.1

CERTIFICATIONS:
UL listed

Description	Mfr. No.	Cat. No.	Each
Plastic bowl, plastic dust cover	S192140A1ABA00	**19-120-565**	507.22
304 Stainless-steel bowl, no dust cover	S192140A1ADA00	**19-120-566**	526.69
304 Stainless-steel bowl, 304 stainless-steel dust cover	S192140A1AEA00	**19-120-567**	858.71

Bradley™ Halo™ Pedestal-Mount Eye/Face Washes

Exceed minimum water flow of 3 gpm at 30psi

Save space and fits easily into any work environment. Provide rapid relief to an individual's eyes and face that have been injured by chemicals or particulate.

- Barrier-free design that is fully accessible to people with physical disabilities
- Integral strainer reduces debris in the water and also prevents clogging
- Standard configuration with 6" (15.2cm) drain
- Features Self-draining Aquaduct™ design
- Ergonomic push hand activation eyewash paddle
- Fully-assembled and factory-tested
- Provided with antimicrobial protection
- Yellow impact-resistant plastic or stainless-steel bowl
- Galvanized steel 1.25" NPT supply and waste pipes protected with BradTect™ safety yellow coating
- Chrome-plated brass stay-open (0.5") eye/face wash ball valve

19-120-568

INCLUDES:
Universal identification sign and inspection tag.

COMPLIANCE:
ANSI Standard Z358.1

CERTIFICATIONS:
UL listed

Eyewash Bowl Material	Mfr. No.	Cat. No.	Each
With Dust Cover			
Plastic	S192140A1BBA00	**19-120-569**	585.09
Type 304 Stainless-steel	S192140A1BEA00	**19-120-571**	936.79
Without Dust Cover			
Plastic	S192140A1BAA00	**19-120-568**	468.29
Type 304 Stainless-steel	S192140A1BDA00	**19-120-570**	604.56

Bradley™ Halo™ Wall-Mount Eyewashes

Save space and delivers effective eye washdown coverage and spray pattern

The Halo eyewash unit offers a high performance rinsing platform that provides rapid relief to eyes that have been injured by chemicals or particulate.

- Provides 4.8gpm of water at safe velocity
- Operated by ergonomic push handle and hand activation eyewash paddle
- Barrier-free design with 0.5" (1.27cm) stay-open eyewash ball valve
- Antimicrobial protection available
- Features Self-draining Aquaduct™ design
- Fully-assembled and factory-tested
- Universal identification sign and inspection tag included
- Galvanized steel supply and waste pipes protected with BRADTECT™ safety yellow coating
- Bowl constructed of yellow impact-resistant plastic or stainless-steel material
- Waste drain fitting, 1.25" (3.17cm) and tailpiece furnished
- Check valves for backflow prevention with 0.37" (0.9cm) female dual NPT female inlet and outlet connections
- Integral flow control in sprayhead assembly assures safe, steady water flow under varying water supply conditions from 30 to 90psi

19-120-573

COMPLIANCE:
ANSI Standard Z358.1 compliant

CERTIFICATIONS:
UL listed

Bowl Material	Mfr No.	Cat. No.	Each
With Dust Cover			
Plastic	S192240A1ABAA00	**19-120-573**	417.46
Stainless-steel	S192240A1AEAA00	**19-120-575**	768.95
Without Dust Cover			
Plastic	S192240A1AAAA00	**19-120-572**	300.66
Plastic	S192240A1BAAA00	**19-120-576**	382.65
Stainless-steel	S192240A1ADAA00	**19-120-574**	436.93

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Bradley™ Wall-Mount Eyewashes

Unit design saves space and fits easily into any work environment

- Both eyewash units come with wall bracket
- Eyewash operates quickly by a large, highly visible push handle
- Safe, steady water flow under varying water supply conditions from 30 to 90psi is assured by integral flow control in the sprayhead assembly

19-807-540

- Eyewash bowl: 10" (25.4cm) diameter yellow impact-resistant plastic or 10.75" (27.3cm) diameter corrosion-resistant stainless steel
- Valve: Chrome-plated brass 1/2" (1.27cm) IPS stay-open ball valve. Hand operated by a large, highly visible safety yellow PVC push handle
- Pipe and fittings: 1/2" (1.27cm) galvanized steel with safety yellow coating is all stainless steel
- Wall bracket: Heavy-gauge sand-cast aluminum with safety yellow coating
- Waste: Dome-type strainer, 1.25" drain fitting and tailpiece furnished.
- Water supply: 1/2" (1.27cm) IPS

Description	Mfr. No.	Cat. No.	Each
Stainless-steel bowl w/wall bracket	S19-220B	**19-870-016**	441.87
Plastic bowl w/wall bracket	S19-220	**19-807-540**	389.50

Bradley™ Halo™ Eyewashes with SpinTec™ Drench Shower

Space saving fixture equipped with shower providing superior washdown and even spray pattern

The unit fits easily into any work environment.

Halo Eyewash

- Provides 4.8gpm of water at safe velocity
- Operated by ergonomic type 304 stainless-steel push handle and hand activation eyewash paddle
- Barrier-free or standard design with chrome-plated brass, 0.5" (1.27cm) stay-open eyewash ball valve
- Universal identification sign and inspection tag included
- Galvanized steel supply and waste pipes protected with BRADTECT™ safety yellow coating
- Bowl constructed of yellow impact-resistant plastic or stainless-steel material
- Waste drain fitting, 1.25" (3.17cm) and tailpiece furnished
- Integral strainer to reduce water debris and clogging
- Provided with antimicrobial protection
- Features self-draining Aquaduct™ design
- Fully-assembled and factory-tested
- Optional yellow impact-resistant plastic or type 304 corrosion-resistant stainless-steel dust cover

SpinTec Showerhead

- Made of highly visible yellow impact-resistant plastic with 3.1" (78.7mm)
- Features integral 22gpm flow control to conserve water
- Optional 10.75" (273mm) corrosion-resistant stainless-steel shroud and aluminum foot paddle available

COMPLIANCE:
ANSI Standard Z358.1 compliant

CERTIFICATIONS:
UL listed

Halo Eyewash

Description	Mfr No.	Cat. No.	Each
Plastic Bowl without Drench Hose	S193140A1AAAA00	**19-120-580**	962.02
Plastic Bowl with Dust Cover	S193140A1AABA00	**19-120-582**	1080.47

Spill Control

Agents and Kits

ANSUL™ Bulk SPILL-X™ Agents

For response to larger spills

- Use a scoop or shovel to apply the agent directly onto the spill
- Bulk-packed agents can also be used to refill a Spill-Gun™ applicator (not included)
- Include detailed instructions for responding to a spill

ALERTS:
Treated spills containing heavy metals or other listed wastes may still be characterized as hazardous. Disposal of spill waste material should comply with local, state and federal regulations.

Description	Weight	Mfr. No.	Cat. No.	Each
5 gal. (19L) Pails				
Spill-X-A	50 lb. (22.7kg)	76255	**17-200-1A**	424.00
Spill-X-C	42 lb. (19.0kg)	76396	**17-200-1C**	668.50
Spill-X-S	16 lb. (7.3kg)	76258	**17-200-1B**	720.50
Spill-X-FP	37 lb. (16.8kg)	78443	**17-978**	669.50

Clockwise from top: 17-200-1A, 17-200-1B, 17-978, 17-200-1C

ANSUL™ SPILL-X™ Agents in Shaker Bottles

Free-flowing dry agent to treat acid, caustic, solvent or formaldehyde spills

17-200-3

- Solidify and reduce vapor release from solvent or formaldehyde spills
- Neutralize and solidify acid or caustic spills
- Properly neutralized corrosive spills (pH over 2 and less than 12.5) are no longer characterized as "hazardous materials" by the U.S. EPA
- Properly treated solvent spills have greatly reduced vaporization loss
- Four agents available: SPILL-X-A™ for acids, SPILL-X-C™ for caustics, SPILL-X-S™ for solvents and SPILL-X-FP™ for formaldehyde
- Color-coded label for easy identification
- Multi-agent kit includes two bottles each of SPILL-X-A™, SPILL-X-C™ and SPILL-X-S™ agents.

ORDERING INFORMATION:
Six single-agent shaker bottles per pack.

ALERTS:
The amount of spilled material neutralized or solidified depends on type of acid, caustic, solvent or formaldehyde and its percentage concentration. Treated spills containing heavy metals or other listed wastes may still be characterized as hazardous. Disposal of spill waste materials should follow local, state and federal regulations.

Choose the Right SPILL-X Agent for the Job	
SPILL-X-A agent for acids	
Agent Color	Red
Label Color	Red
Base	Magnesium oxide
Action	Neutralizes most mineral and organic acids and solidifies them into chunks of common salts for easy cleanup.
SPILL-X-C agent for caustics	
Agent Color	Tan
Label Color	Blue
Base	Citric Acid
Action	Neutralizes spills of most organic bases and caustics, and/or solidifies them into a polysaccharide matrix. Neutralized caustics become salts for easy disposal.
SPILL-X-S agent for solvents	
Agent Color	Black
Label Color	Brown
Base	Carbonaceous-based material
Action	Adsorbs many organic liquid solvents, monomers and fuels, reducing vaporization loss while raising flashpoints to limit ignitability. Residue can then be easily swept up for proper disposal. (Not for use on organic peroxides or hydrazine compounds.)
SPILL-X-FP agent for formaldehyde	
Agent Color	Green
Label Color	Green
Base	Urea-based material
Action	Chemically reacts with formaldehyde to form a urea-formaldehyde polymer (polynoxylin). Any remaining liquid residue can be solidified by adding SPILL-X-S agent.

Description	Mfr. No.	Cat. No.	Pack of 6 Bottles
Multi-agent	77358	**17-200-3**	258.00
Single Agents			
SPILL-X-A™	77255	**17-200-2A**	186.40
SPILL-X-C™	77261	**17-200-2C**	286.00
SPILL-X-S™	77265	**17-200-2B**	646.00
SPILL-X-FP™	78435	**17-200-6**	299.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Chemical Spill Cabinet

Packed as a portable kit that can also be wall-mounted

19-034-968

Be prepared for spills with Fisherbrand chemical spill kits that provide all the supplies necessary to safely clean up oils, acids, caustics, solvents and toxic spills.

- Barrier socks contained in Universal Spill Kit are excellent for containment and channeling of liquids and absorb up to 1.5 times their own weight — by molding to any surface, the heavy, dense barrier socks prevent the spread of spilled liquids
- Nonbiodegradable, inert mineral can be used on all liquids. Pads are made of dimpled, multilayered polypropylene for extra strength
- Finished pads are soft, pliable and absorb up to 25 times their own weight — when saturated, tough pads resist tearing and sticking to floors
- Safety Sorbent particulate is easy to use and leaves no film residue after cleanup — absorbs 1.5 times its own weight
- Particulate provides traction even on wet, oily or icy surfaces
- After cleanup, surfaces are completely dry
- Supplied in convenient shaker carton or with Universal Spill Kit in 95-gallon drum, in multi-walled, lined bag
- Certified free of respirable silica
- Socks, pillows and sorbent exceed EPA landfill requirements and pass paint filter and TCLP tests

ORDERING INFORMATION:
Cabinet measures 5.5L × 13.75W × 16.25"H (14 × 34.9 × 41.3cm).

Sorbing capacity (per cabinet): 2.5 to 3 gal. (9.5 to 11.3L)

INCLUDES:
Five universal pillows; six lab pillows; two disposable bags with twist ties; one pair of chemical-resistant gloves; one Whisk-on-pan™ dust pan; one poly apron; one pair of splash goggles; one carton of sorbent powder

COMPLIANCE:
Socks, pillows and sorbent exceed EPA landfill requirements and pass paint filter and TCLP tests.

Sorbing Capacity (per Cabinet)	Cat. No.	Each
2.5 to 3 gal. (9.5 to 11.3L)	**19-034-968**	231.50

Fisherbrand® Chemical Spill Mini Spill Kit

Provides a quick and easy solution for cleaning small spills

- Each case includes six kits
- Total sorbing capacity per case is 1.5 to 2.5 gal. (5.7 to 9.5L)
- Each kit has a sorbing capacity of 0.25 to 0.4 gal. (1.0 to 1.5L)

19-034-159

INCLUDES:
Each kit includes one carton Safety Sorbent particulate, one pair of side vent goggles, one pair gloves, two scraper cards for brushing up spills, one yellow disposal bag with tie.

Cat. No.	Case of 6
19-034-159	139.90

Fisherbrand® Universal Spill Response Drum Kits

All the supplies necessary to safely clean up oils, acids, caustics, solvents and toxic spills

High-density polyethylene drums hold a supply of Fisherbrand™ sorbent socks, pillows and sorbent powder — and provide safe containment for used sorbents after spill cleanup. Pull-tab opening makes access quick and easy. Drums are highly resistant to impact and environmental stress cracks and have safety locks and PVC O-rings to assure tight seal.

17-206A

- 6 gal. (22.7L) drum contains two universal pads, five 3" × 4' socks, two cartons of sorbent powder, a yellow bag and twist tie, for a total sorbing capacity of approximately 7 gal. (26.5L)
- 20 gal. (75.7L) drum contains 50 universal pads, two cartons of sorbent powder, four 3" × 4' socks, two pillows, a pair of gloves and goggles, one bag and twist tie, for a total sorbing capacity of approximately 18 gal. (68.1L)
- **CERTIFICATIONS:**
  6- and 20-gal. drums carry DOT approval for transportation of hazardous materials.

ALERTS:
Do not use particulate, socks or pillows on hydrofluoric acid. Do not use pads or rolls on concentrated sulfuric acid and strong caustics, as fabric casings may degrade if contact is lengthy. Refer to Material Safety Data Sheet for details.

Description	Sorbing Capacity Range†	Cat. No.	Each
6 gal. (22.7L)	4 to 7 gal. (15.1 to 26.5L)	**17-985-128**	91.10
20 gal. (75.7L)	10 to 18 gal. (37.8 to 68.1L)	**17-206A**	263.50
55 gal. (208L)	32 to 53 gal. (121.1 to 200.6L)	**17-206B**	445.00
95 gal. (359.5L)	43 to 73 gal. (162.7 to 276.3L)	**19-034-969**	846.00

† Range of sorbency based on minimum and maximum values.

SPC™ Attack Pac

Handy, single-use universal spill kit absorbs up to seven gallons

- Packed in puncture-resistant, UV-proof foil bag
- Space-saving bag hangs from grommet or rack

19-819-427

INCLUDES:
15 pads, 17 × 19" (43.2 × 48.3cm); three SOCs, 3" × 4' (7.6cm × 1.2m); goggles; nitrile gloves; disposable bag; instruction sheet

Mfr. No.	Cat. No.	Case of 4
SKA-ATK	**19-819-427**	494.00

Spilfyter™ Mercury Spill Kit

Designed to handle all stages of mercury spill cleanup

Kit contains everything needed to quickly and safely clean up mercury spills up to 0.75 oz. (25mL) and prevent toxic vapor contamination.

19-021-910

- Mercury indicator powder identifies mercury in area of suspected contamination
- After an undisturbed period, powder changes color to indicate contact with mercury metal or vapor
- Mercsorb™ powder converts mercury into an amalgam for safe, convenient cleanup of mercury on work surfaces, floors and hard-to-reach areas

INCLUDES:
Mercsorb amalgamation powder, 9.5 oz. (270g); mercury indicator powder, 8.75 oz. (250g); vapor suppressor shaker bottle; aspirator bottle; waste collection bottle; mixing tub with spatula; chemical sponge; one pair nitrile gloves; splash goggles; Whisk-on-pan™ with brush; and red plastic carrying case

ALERTS:
Kit does not contain any chemicals designed to alter the mercury's toxicity or its danger. Recommended for use by trained personnel only.

Description	Mfr. No.	Cat. No.	Each
Complete Kit	520250	**19-021-910**	217.33
Mercsorb Powder, 9.5 oz. (270g)	520270	**18-999-948**	37.65
Mercury Indicator Powder, 8.75 oz. (250g)	523250	**18-999-949**	65.80

Sorbents

Fisherbrand® Oil-Selective Sorbents

Selectively remove hydrocarbons from water

Multilayer fine fiber polypropylene sorbents sorb up to 25 times their weight in petrochemical-based liquids.

17-215B

- For sorbing oil and a wide variety of acids and other hazardous chemicals
- Unaffected by temperature, humidity and pest infestation; easy to store
- Can be cleaned and reused repeatedly

Pads, Pillows and Rolls

- Multilayer fine fiber material for cleaning spills of flammable material
- Sorbent pads and rolls come in a range of sizes and can be trimmed to fit
- Compact pillow, socks and pads can be placed directly on spills

Description	Sorbing Capacity	Cat. No.	Price
Pillows			
18L × 18"W (45.7 × 45.7cm)	22 gal. (83.3L)	**17-215-3**	Cs. of 10/69.80
Socks			
4'L × 3"W (122 × 122cm)	23 gal. (87L)	**17-215-6A**	Cs. of 15/79.40
Pads			
18L × 16"W (45.7 × 40.6cm)	6 gal. (22.7L)	**17-215D**	Cs. of 25/21.65
18L × 16"W (45.7 × 40.6cm)	27 gal. (102.2L)	**17-215B**	Cs. of 100/81.80
16L × 18"W (40.6 × 45.7cm)	25 gal. (94.6L)	**17-215C**	Cs. of 200/86.70
Rolls			
150'L × 32"W (45.7m × 81.3cm)	55 gal. (208.2L)	**19-034-972**	Ea./150.70
150'L × 32"W (45.7m × 81.3cm)	78 gal. (295.3L)	**17-215-1A**	Ea./123.90

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Universal Sorbents

Universal, nonselective sorbents can fully saturate in as little as 20 seconds

Pads and Rolls

19-034-155, 19-034-157

- Made of polypropylene that has been shredded, pulped and air-blown through two strong layers of spunbonded film, then heat-sealed and dimpled for extra strength
- Tough, lint-free, soft, pliable and highly absorbent
- Fold easily upon themselves to form multi-layer barrier
- Suited for leaks, spills or drips and for routine maintenance — can be used on mild acids and caustics
- Absorb up to 20 times their weight
- Saturated pads resist tearing and sticking to surfaces and can be wrung out and then reused or incinerated with less than 0.1% ash residue

Pillows and Socks

- Ideal for spill containment and control
- Casings made of chemical-resistant, nonwoven polyester blend (with polyester thread) that enhances absorbency
- Absorb up to 14 times their weight

COMPLIANCE:
Nonbiodegradable; eliminate "free" liquids, meeting U.S. EPA requirements for landfill disposal of nonregulated wastes and sludges. Particulate passes Paint Filter and TCLP tests. Handle disposal according to federal, state and local laws.

ALERTS:
Do not use particulate, socks or pillows on hydrofluoric acid. Do not use pads, rolls, rugs or mats on concentrated sulfuric acid and strong caustics, as fabric casings may degrade if contact is lengthy. Refer to Material Safety Data Sheet for details.

Description	Size	Sorbing Capacity	Cat. No.	Case of
Pad	16'L × 18"W (40.6 × 45.7cm)	32 gal. (121.1L)	**19-034-155**	100/83.90
Roll	150'L × 32"W (45.7m × 81.3cm)	54 gal. (204.4L)	**19-034-156**	1/181.00
Pillow	17L × 8"W (43.2 × 20.3cm)	8 gal. (30.2L)	**19-034-157**	10/89.00
Sock	4'L × 3"W (1.2m × 7.6cm)	23 gal. (87L)	**17-206-2B**	15/60.40
Particulate	24 lb. (10.8kg)	46 gal. (174.2L)	**17-206-1B**	1/63.90

Fisherbrand® Hazmat Sorbent Pads

An absolute necessity for responding to spills of almost any kind

19-051-753

- Use to wipe up smaller chemical spills or absorb liquids on laboratory benchtops
- Suitable for use with liquids ranging from water-based fluids to aggressive acids
- Absorb up to 25 times their weight in liquid
- Sorbing capacity: 11 gallons/case
- L × W: 12 × 12" (30.5 × 30.5cm)

Cat. No.	Case of 100
19-051-753	50.20

SPC™ Re-Form™ Universal Sorbent Pads

Unique composition absorbs up to 50% more than traditional meltblown polypropylene sorbents

19-190-050

- For basic drips and spills
- Netted construction for extra durability
- Indoor use or dry-weather outdoor use
- General-purpose sorbent (not for use with highly agressive acids and caustics)
- Re-Form Plus pads feature perforated spunbound coverstock on one side that withstands foot traffic
- All pads measure 15 × 19" (38.1 × 48.3cm)
- Color: Gray

Description	Sorbing Capacity	Mfr. No.	Cat. No.	Case of 100
Re-Form Pads				
Light weight	24 gal. (90.8L)	RF500	**19-190-052**	73.20
Medium weight	32 gal. (121.1L)	RF300	**19-190-051**	91.50
Heavy weight	40 gal. (151.4L)	RF100	**19-190-050**	109.30
Re-Form Plus Pads with Coverstock				
Light weight	24 gal. (90.8L)	RFP500	**19-190-055**	80.90
Medium weight	32 gal. (121.1L)	RFP300	**19-190-054**	99.30
Heavy weight	40 gal. (151.4L)	RFP100	**19-190-053**	118.70

SPC™ Universal Plus™ Sorbent Pad

Effective with hazardous and aggressive fluids

- Chemically inert; makes pads ideal for use with aggressive fluids
- Three-ply construction adds strength and durability yet reduces lint
- Perforated so you use only what you need to reduces waste
- Green color (the universal symbol for safety) indicates pads are intended for use on hazardous materials

18-999-7

L × W	Mfr. No.	Cat. No.	Case of 100
12 × 12" (30.5 × 30.5cm)	UN1113	**19-003-205**	202.00
19 × 15" (48.3 × 38.1cm)	UN1719	**18-999-7**	202.50

Spilfyter™ Lab and Cleanroom Kollect-a-Kem™ Sorbents

Available in low-lint and extra-low-lint pads and rolls

Low-Lint Pads and Pillows

- Use in work areas to keep them safe from spills and chemical overruns
- Constructed from premium fine fiber Spilfyter Hazmat Pads encased in tear-resistant, Low-Lint Spunbond fabric

19-021-8 Series

Extra-Low-Lint Pads and Rolls

- Made from Spilfyter Premium Hazmat Sorbents with extra-low-lint heat-pressed material
- Provide for a 100% lint-free cleanroom
- Note: It is the end user's responsibility to determine if these sorbents are suitable for use prior to allowing them into the cleanroom environment.

Description	L × W	Mfr. No.	Cat. No.	Case of
Low-Lint Pads				
Light-duty	18 × 18" (45.7 × 45.7cm)	223182	**19-021-870**	50/395.00
Low-Lint Pillows				
Heavy-duty	18 × 18" (45.7 × 45.7cm)	222016	**19-021-856**	12/260.00
Extra-Low-Lint Pads				
Heavy-duty	12 × 12" (30.5 × 30.5cm)	225122	**19-021-862**	25/233.50

3M™ Chemical Spill Sorbent Response Pack

Designed for use in areas where hazardous chemicals are shipped, stored or transferred

- Each 3" × 4' (7.6cm × 1.2m) mini boom absorbs up to 1 gal. (3.8L)
- 10 pads absorb up to 3/4 gal. (2.8L); measure 11 × 13" (28 × 33cm) each

INCLUDES:
Three mini booms and 10 pads

19-073-207

NOTES:
These safety products must be used in accordance with the user instructions, warnings and limitations accompanying each product.

Sorbing Capacity per Pack	Mfr. No.	Cat. No.	Pack	Case of 3 Pack
3 3/4 gal. (14.2L)	SRP-CHEM	**19-073-207**	141.20	365.50

3M™ Standard Chemical Sorbents

Absorb virtually any liquid with these chemical sorbents

Meltblown polypropylene microfibers absorb liquids such as hydrofluoric acid and other aqueous-based chemicals and soak up an average of 10 times their weight of most EPA-designated hazardous liquids.

17-210

- Sorbents are dirt- and dust-free; contain no abrasive granules that can damage expensive equipment
- Polypropylene base is chemically inert and incinerable; allows separation and recycling in many applications
- Easy-to-spot yellow cartons protect sorbents from temperature and humidity for secure, long-term storage
- Convenient dispenser boxes — suitable for tabletops or wall mounting — keep pads and pillows within easy reach
- Pads or rolls are ideal for use on work surfaces and can be trimmed to size
- Mini booms surround and contain spills; pillows soak them up

NOTES:
These safety products must be used in accordance with the user instructions, warnings and limitations accompanying each product.

Description	Sorbing Capacity	Mfr. No.	Cat. No.	Price
Pads				
13 × 11" (33 × 27.9cm)	4.5 gal. (16L)	P-110	**17-210**	Pk. of 50/58.50
Mini booms				
12' × 3" (365.76 × 7.62cm)	12 gal. (45.4L)	P-212	**19-039-443**	Cs. of 4/247.21
Pillows				
15 × 9" (38.1 × 22.9cm)	8 gal. (30.3L)	P-300	**17-210-3**	Pk. of 16/196.11

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

3M™ Chemical Sorbent Mini-Boom P-212

Chemical sorbent mini-booms are typically used to encircle spills and to contain leaks

19-039-443

Chemical Sorbent Mini-Booms can be placed around hazardous spills, reducing the possibility of spread to adjacent areas. Chemical Sorbents can sorb acids, bases and other hazardous fluids. 3 gallon capacity.

- For use on most aggressive (hazardous) and nonaggressive liquids
- Ideal for placing around equipment
- Helps prevent leaks/spills from spreading to adjacent areas
- Scrim on the outside of mini-boom identifies the use while containing particulate Sorbent material
- Measures: 12' long by 3" dia.
- Caution: Sorbents may become slippery when used on flooring. Do not walk on sorbents or place in high traffic areas.

APPLICATIONS:
Agriculture, Automotive, Chemicals, Construction, General Manufacturing, Healthcare, Military, Mining, Oil & Gas, Pharmaceuticals, Primary Metals, Transportation

ALERTS:
Failure to properly handle and dispose of sorbents contaminated by hazardous materials can result in serious physical injury or death and/or environmental harm. For proper handling, consult the Material Safety Data Sheet for the material absorbed. To reduce the risk of serious physical injury or death, always use respiratory protection and protective clothing appropriate for handling the material to be absorbed.

Description	Mfr. No.	Cat. No.	Case of 4
Chemical Sorbent Mini-Boom	P-212	**19-039-443**	247.21

Brady™ MAXX Chemical Pads

Greater performance without extra weight

- Yellow color coded with printer caution
- Medium-weight
- Does not react with aggressive fluids
- For all chemical applications

19-150-260

APPLICATIONS:
Nuclear power facilities, Chemical spill response units, Labs and hospitals, Any industry utilizing aggressive fluids

Description	Sorbing Capacity	Mfr. No.	Cat. No.	Price
Pads				
15" × 19" (38.1 × 48.2cm)	30 gal.	CH100	**19-150-260**	Cs. of 100/125.70
15" × 19" (38.1 × 48.2cm)	44 gal.	CH200	**19-103-101**	Cs. of 200/142.00
Rolls				
30" × 300' (76.2cm × 91.4m)	70 gal.	CH303	**19-103-100**	Ea./219.00
30" × 150' (76.2cm × 45.7m)	40 gal.	CH30DP	**19-103-102**	Ea./198.00
15" × 150' (38.1cm × 45.7m)	30 gal.	CH15P	**19-150-263**	Ea./102.90

Brady™ Hazwik™ Spill Berms

Self contained portable containment systems

- Portable
- Easy to use: Requires no assembly, tools or inflation
- One-piece design
- Absorbency: 30 gallons/case
- H × W: 15 × 19"

19-150-270

Size	Mfr. No.	Cat. No.	Each
15.5L × 19.5W × 20.5" H (39.3 × 49.5 × 52cm)	MXP-C20	**19-150-270**	144.50

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

Sample Cups

Fisherbrand® Commode Specimen Collector

Durable, one-piece unit features easy-to-read imprinted graduations, instruction and convenient pouring spout

22-363-149

- Made of durable plastic
- System components fit standard toilets
- Easy-to-read graduations to determine specimen volume

Cat. No.	Case of 100
22-363-149	297.49

Fisherbrand® Disposable Auto-Analyzer Cups

Specifically designed for use with Centrifichem™, Kodak™ Ektachem™ E400 and E700, Technicon™, Tosoh™ AIA™ 600 and 1200 analyzers

- Precision-molded clear polystyrene
- Graduated with round or conical inside bottoms to maximize sample uptake

Capacity	For Use With	Cat. No.	Pack of 1000	Case of
2.0mL	For Kodak Ektachem E400 and E700 Analyzers, Technicon Auto-Analyzers and Tosoh AIA 600 and 1200 Analyzers	**02-544-131**	84.00	10 Pk./ 726.00

Fisherbrand® Nesting Sample Cups

Designed for pediatric or geriatric samples or insuffcient draws

- Polystyrene cup
- Reduces operator error as allows for use of analyzers bar coding/primary tube sampling system
- Lower shoulder height eliminates mechanical jamming

22-363-150

Description	Cat. No.	Pack of 1000	Case of 5000
0.5" (13mm)	**22-363-150**	42.12	180.00
0.6" (16mm)	**22-363-151**	53.82	230.00

Fisherbrand® Multipurpose Sample Cups

Heavy-duty polystyrene to prevent cracking or tipping

- Graduated in 0.5mL increments
- Side-gated molding process eliminates pinholes in bottoms of cups

02-544-4

Capacity	Cat. No.	Pack of	Case of 10 Pk.
2.0mL	**02-544-19**	10000/528.00	----
4.0mL	**02-544-4**	1000/83.70	708.00[1]

[1]Ten separate packages of 1000 each are bundled to produce case of 10 pack.

ACCESSORIES

Fisherbrand® Caps for Multi-Purpose Sample Cups

Fit 0.25, 0.5 and 2.0mL capacity cups

- Color: natural

For Analyzer Cup	Cat. No.	Pack of 1000	Case of 10 Pk.
02-544-19	**02-544-10**	134.50	1142.00

WHY CHOOSE BLUE?

Choose blue — that's Fisherbrand blue — for products that guarantee quality, reliability and value. With over 10,000 products and premiere brands such as Isotemp and accumet you can choose blue for all your laboratory needs. Visit **www.fishersci.com/fisherbrand.**

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Samplers

General Purpose

Fisherbrand® Disposable Sterile Scoops

Curved handle for easier pickup

- Contaminant-free
- Flat-top design ensures accuracy to ±2% of capacity
- Flat bottom keeps scoop upright
- Polystyrene construction

ORDERING INFORMATION:
Individually packaged

L to R: 14-375-252, -251, -250

Capacity	Overall Length	Cat. No.	Case of 100
2 oz. (59mL)	7.5" (19cm)	**14-375-250**	90.20
4 oz. (118mL)	7.5" (19cm)	**14-375-251**	134.30
8 oz. (237mL)	8" (20cm)	**14-375-252**	179.60

Fisherbrand® Disposable Sterile Spoons

For small quantities of dry or slurry samples

- Flat-top design ensures measuring accuracy
- Extra-long handle minimizes contamination
- Flat bottom prevents rollover
- Pegged end on handle for easier pickup
- Polystyrene construction

ORDERING INFORMATION:
Individually packaged.

Top to bottom: 14-375-254, -255, -256, -257

Capacity	Overall Length	Cat. No.	Case of 200
0.25 tsp. (1.2mL)	7" (17.8cm)	**14-375-254**	156.20
0.5 tsp. (2.5mL)	7" (17.8cm)	**14-375-255**	156.60
1 tsp. (4.9mL)	7" (17.8cm)	**14-375-256**	144.00
1 tbsp. (14.8mL)	7" (17.8cm)	**14-375-257**	147.70

Fisherbrand® Disposable Sterile Spatula

For transferring powdered or caked materials

- Heavy-duty edge and "V" design easily break up packed materials
- One-piece polystyrene construction with extra-large handle

ORDERING INFORMATION:
Individually packaged.

14-375-253

Overall Length	Cat. No.	Case of 100
9" (22.9cm)	**14-375-253**	93.40

Fisherbrand® Sterile Knife

Disposable sampling accessory

- Serrated edge for cutting fibrous materials
- Polystyrene construction
- Overall length: 7.12" (18 .1cm)

ORDERING INFORMATION:
Individually packaged.

14-375-262

Overall Length	Cat. No.	Case of 200
7.12" (18.1cm)	**14-375-262**	249.50

Fisherbrand® Reusable Polyethylene Ladles

Extra-heavy-duty for sampling and dispensing corrosive liquids

- Linear polyethylene beaker
- Secured with welded solid handle

14-242-20

Capacity	Handle Length	Cat. No.	Each	Case of
1.7 oz. (50mL)	9" (23cm)	**14-242-20**	25.16	12/251.60
3.4 oz. (100mL)	9" (23cm)	**14-242-25**	26.86	12/268.64
8.5 oz. (250mL)	9" (23cm)	**14-242-30**	27.74	12/277.43
20.3 oz. (600mL)	10" (25cm)	**14-242-40**	30.53	12/305.33
33.8 oz. (1000mL)	12" (30cm)	**14-242-45**	75.80	6/379.00

Fisherbrand® Reusable Polyethylene Dippers

500mL beakers with long handles for removing samples from large tanks

- Lightweight, durable polyethylene
- Graduated beaker features dual pouring spouts for easy left- or right-handed operation
- Handle has an "easy-grip" end for secure handling under adverse conditions

14-242-5

Capacity	Handle Length	Cat. No.	Each
16.9 oz. (500mL)	3' (0.9m)	**14-242-1**	61.16
16.9 oz. (500mL)	6' (1.8m)	**14-242-5**	91.34
16.9 oz. (500mL)	12' (3.7m)	**14-242-10**	150.34

Bel-Art™ Scienceware™ Sterileware™ Sampler Scoops

For taking samples, especially from wide-mouth containers

- Extra-long handles keep hands safe

14-241-10 Series

Capacity	Overall Length	Mfr. No.	Cat. No.	Case of 100
2 oz. (60mL)	8" (20.3cm)	H36902-0000	**14-241-10A**	133.27
4 oz. (118mL)	8.68" (22cm)	H36904-0000	**14-241-10B**	170.94
8 oz. (236mL)	7.5" (21cm)	H36906-0000	**14-241-10C**	228.89

Bel-Art™ Scienceware™ Sterileware™ Sterile Styrene Sampler Spoons

Designed to gather small amounts of sample material

- Sterile: individually packaged, sterilized by gamma irradiation, lot stamped for accurate lot tracing and shipped with a Certificate of Processing for Sterilization
- DA grade materials
- Long handle reaches easily into jars, bottles and other confined areas

14-429 Series

Capacity	Mfr. No.	Cat. No.	Pack of
0.25 tsp. (1.2mL)	H36940-0000	**14-429A**	200/233.05
0.5 tsp. (2.5mL)	H36942-0000	**14-429B**	200/241.37
3 tsp. (4.9mL)	H36944-0000	**14-429C**	200/216.92
1 tbsp. (14.8mL)	H36946-0000	**14-429D**	200/215.88
0.16 oz. (4.93mL)	H369440010	**03-990-231**	10/38.45

Bel-Art™ Scienceware™ Sterileware™ Sampling Spatulas

V-shaped spatulas with sturdy points are ideal for every type of powdered or granulated material — perfect for taking sterile samples during process quality inspections and for piercing plastic-lined paper bags or similar packages

- Time-honored V-shape makes transferring powdered, flaked, crystalline or granular media a breeze
- Long, 14" spatula (16-241-210) is perfect for dislodging caked or crystallized reagents from deep within tall bottles or vessels having a neck diameter as small as 0.75" (18mm)

16-241-210

Sterileware (16-241-210, 14-385-20)

- 9 and 14" models
- High-impact sterile polystyrene
- Individually packaged
- Sterilized by gamma irradiation
- Lot stamped, shipped with Certificate of Processing

Overall L	Channel L	Handle L	Mfr. No.	Cat. No.	Case of
9" (22.9cm)	6" (15.3cm)	3" (7.6cm	H36930-0000	**14-358-20**	100/138.12
14" (35.6cm)	4" (10.2cm)	14" (35.6cm)	H36930-0050	**16-241-210**	50/71.90

Bel-Art™ Scienceware™ Reusable Polypropylene Scoops

Flat bottom keeps these scoops upright when filled or empty, allowing them to be used as weighing boats or to be placed on a flat surface

- Rigid, strong, smooth surface
- Steam autoclavable at 121°C (250°F)
- Comply with FDA regulations for food contact
- Natural color

14-237 Series

Capacity	Handle Length	Scoop (L × W)	Mfr. No.	Cat. No.	Pack of	Case of
22cc	1.25" (32mm)	2.38 × 1.13 × 1" (60 × 29 × 25mm)	F36747-0000	**14-237-1**	----	12/21.17
75cc	1.88" (48mm)	3.5 × 1.5 × 1.25" (89 × 38 × 32mm)	F36749-0000	**14-237-2**	----	72/194.40
100cc	4" (102mm)	3.63 × 1.88 × 1.38" (92 × 48 × 35mm)	F36750-0000	**14-237-6**	----	48/124.12
200cc	2.5" (64mm)	5 × 2 × 2" (127 × 51 × 51mm)	F36753-0000	**14-237-3**	----	36/96.03
1100cc	4" (102mm)	8 × 4.75 × 3" (203 × 121 × 76mm)	F36756-0000	**14-237-5**	48/124.12	4 Pk./142.20

Scienceware™ Long-Handled Dippers

For easy sampling from tanks, vats and lakes

- High-density polyethylene dippers will not rust or corrode
- Provide excellent chemical resistance
- Handle is welded to the rigid bowl at a 45° angle
- End of the handle has a hook for hanging
- Handle diameter: 1.13" (29mm)

22-111-153

Capacity	Handle Length	Mfr. No.	Cat. No.	Each	Case of 12
One-Piece Handle					
16.9 oz. (500cc)	36" (91.4cm)	F36780-0016	**22-111-153**	82.30	864.00
16.9 oz. (500cc)	72" (183cm)	F36781-0016	**22-111-526**	116.30	1228.00
16.9 oz. (500cc)	144" (366cm)	F36782-0116	**22-261-572**	197.90	2160.00
33.8 oz. (1000cc)	72" (183cm)	F36781-0032	**22-261-570**	136.60	1440.00
Two-Piece Handle					
16.9 oz. (500cc)	144" (366cm)	F36782-0016	**22-163-790**	216.00	2360.00
33.8 oz. (1000cc)	144" (366cm)	F36782-0032	**22-261-571**	168.92	2027.04

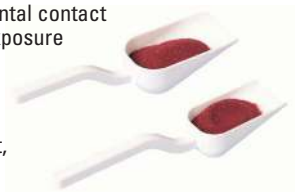
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Bel-Art™ Scienceware™ Bent Handle Scoop

Features an ergonomic, curved handle design to elevate the hand from the sample, reducing risk of contamination

- Curved handle helps prevent incidental contact with sample source material and exposure to hazardous substances
- Flat bottom keeps scoop upright when placed on a flat surface
- Made from high-impact, lightweight, FDA grade polystyrene
- Sterilized by gamma irradiation, lot stamped for accurate lot tracing and shipped with a Certificate of Sterilization



14-241-202 and 14-241-203

Dimensions	Mfr. No.	Cat. No.	Pack of 10
7.5 × 1.625 × 1.5" (19.1 × 4.1 × 3.7cm)	H36902-2006	**14-241-202**	29.40
7.5 × 2 × 1.625" (19.1 × 5 × 4.2cm)	H36904-2006	**14-241-203**	31.75

Bel-Art™ Sterileware™ Red Sterile Sampling Scoops

Perfect shape and size for taking samples, especially from wide-mouth containers

Designed to hold various capacities, these one-piece scoops are molded of high-impact polystyrene

- 2 oz. and 4 oz. sampling scoops have a long handle that increases the distance between the hand and sample
- When placed on a flat surface they remain upright
- Colored scoop reduces the chance of being accidentally left behind in a sample
- Made from FDA grade materials
- Lot stamped for accurate lot tracing; shipped with a Certificate of Processing for Sterilization

14-241-201

Capacity	Overall Length	Mfr. No.	Cat. No.	Pack of 100
2 oz. (60mL)	8" (20.3cm)	H36902-2002	**14-241-201**	154.40

Bel-Art™ Scienceware™ Sterileware™ Sampling System

High-impact polystyrene plastic scoops with detachable lids have a longer handle, increasing the distance between the hand and sample to reduce contamination potential

- For one-step sterile sampling of dry or slurried material
- Extra-long handles keep hands safe
- Scoop with a lid, inside a plastic bag
- Lock-tab seals sample inside
- Sample data can be written on lid for easy identification

14-241-15B

Capacity	Mfr. No.	Cat. No.	Pack of 100
4 oz. (118mL)	H36924-0000	**14-241-15B**	297.00

Bel-Art™ Sterileware™ Sense-Able Scoops™ Metal and X-Ray Detectable Scoops

Scoop and scoop fragments can be detected by standard metal detection and x-ray equipment to prevent potential production contamination, quarantine and recall

03-421-300

- Standard metal detection and x-ray equipment can detect scoop fragments as small as 1.6mm^3
- Molded with a custom FDA grade polystyrene resin blend containing trace amounts of stainless steel
- Dark blue or black color provides a high contrast background to better view material; blue coloring conforms to industry standard for metal detectable materials
- Long handles on 2 and 4 oz. scoops keeps hand farther from sample to reduce contamination or exposure
- Flat bottom on 2 and 4 oz. scoops holds scoop upright for use a weighing boat: won't spill when resting on flat surface
- Individually wrapped in polyethylene bag and gamma sterilized, lot stamped — ready for one-time use and disposal

Capacity	Bowl Dimensions	Mfr. No.	Cat. No.	Pack of 100
Blue Scoops				
2 oz.	4 × 1.5 × 1" (7.6 × 3.8 × 2.5cm)	H36902-0006	**14-375-612**	180.30
4 oz.	3.5 × 1.75 × 1.25" (9.1 × 4.6 × 3.1cm)	H36904-0006	**14-375-613**	272.58
8 oz.	5 × 2 × 2" (12.7 × 5.1 × 5.1cm)	H36906-0006	**14-375-614**	460.90
Black Scoops				
2 oz.	4 × 1.5 × 1" (7.6 × 3.8 × 2.5cm)	H36902-0005	**03-421-300**	203.00
4 oz.	3.5 × 1.75 × 1.25" (9.1 × 4.6 × 3.1cm)	H36904-0005	**03-421-601**	306.50
8 oz.	5 × 2 × 2" (12.7 × 5.1 × 5.1cm)	H36906-0005	**03-421-301**	515.00

Rubbermaid™ Bouncer™ Scoops

Made of USDA-accepted, NSF-certified, clear polycarbonate materials that comply with FDA regulations

- Tough polycarbonate resists breaking
- Improved weight distribution and handling compared to metal
- Pebble-textured outer surface
- Easy-to-clean, smooth inner surface
- Commercial dishwasher safe

14-236 Series

Capacity	Overall Length	Mfr. No.	Cat. No.	Each
6 oz. (170g)	11.625" (29cm)	2882	**14-236**	21.40
32 oz. (908g)	11.625" (29cm)	2884	**14-236-5**	20.50
64 oz. (1.8kg)	14" (36cm)	2886	**14-236-10**	22.40

Rubbermaid™ Reusable Utility Scoop

Rugged, lightweight, white polyethylene

Suitable for handling foodstuffs.

ORDERING INFORMATION:
Scoop dimensions: 8.25L × 6.12"W (21 × 16cm)

COMPLIANCE:
Made of USDA-accepted materials that comply with FDA regulations; NSF listed

14-236-1

Capacity	Handle Length	Mfr. No.	Cat. No.	Each
64 oz. (1.9L)	7" (18cm)	2885	**14-236-1**	15.04

Bel-Art™ Scienceware™ Stainless-Steel Reagent Digger

Ergonomically designed, time-tested tool, based on confirmed geometry

11-865-141

Dislodge stubborn, caked or crystallized reagents from deep down inside a bottle or vessel that has a minimum neck diameter of 24mm.

- Shape facilitates scooping, shoveling, digging and measuring of all powdered, flaked, crystalline or granular media

Mfr. No.	Cat. No.	Each
F36713-0000	**11-865-141**	29.00

Specialized

Bel-Art™ Scienceware™ Liquid Sampler

A 50mL (1.65 oz.) liquid sampler made for immersion into a can, bottle, tank, vat, etc.

- A center rod with finger ring actuates a valve in the bottom of the cup for rapid and convenient emptying, even when a viscous liquid sample is retrieved
- The nickel-plated brass cup and tubular handle with finger grips are 45cm (17.5 in.) long
- Cup diameter 32mm (1.25 in.)
- Cup is not replaceable and does not detach

ORDERING INFORMATION:

- Provides 17.5" (45cm) depth for insertion into cans, bottles, tanks, vats, etc.
- Cup dia., 1.25" (3.2cm)

14-209-52

Capacity	Length	Mfr. No.	Cat. No.	Each
1.7 oz. (50mL)	19.5" (50cm)	H37827-0000	**14-209-52**	248.50

Petroleum Bacon Bomb Sampler

For composite sampling by ASTM™ D 4057-95

- Weighted sampler obtains samples of any liquid
- Automatically opens when plunger touches bottom
- Manually opens at desired depth with a pull cord or extension rod
- Sampler closes when lifted and can be locked for transport
- No O-rings to wear out or lose
- Antimagnetic
- Brass and bronze construction with heavy nickel plating
- Plunger threaded 1/4-20 to accept threaded extension rods

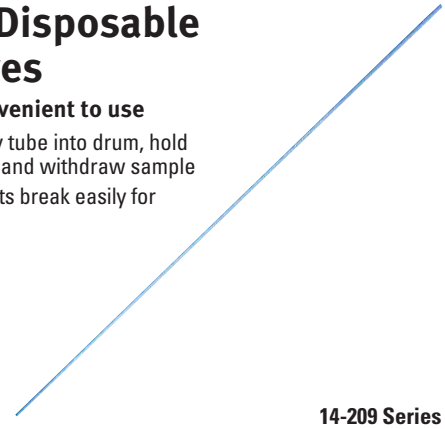
14-209 Series

Capacity	O.D. × H	Mfr. No.	Cat. No.	Each
4 oz. (125mL)	1.88 × 9" (4.8 × 22.8cm)	4852	**14-209D**	342.50
4 oz. (125mL)	1.13 × 15.5" (2.8 × 39.4cm)	4852-S	**14-209E**	320.00
8 oz. (250mL)	2.25 × 10" (5.7 × 25.4cm)	4849	**14-209A**	349.00
16 oz. (500mL)	2.75 × 12" (7 × 30cm)	4850	**14-209**	463.50
16 oz. (500mL)	2.25 × 17" (5.7 × 43.1cm)	4850-S	**14-209B**	400.50
32 oz. (1000mL)	3.25 × 16" (8.25 × 40.6cm)	4851	**14-209C**	489.00

Wheaton™ Disposable Drum Thieves

Economical and convenient to use

- Simply insert empty tube into drum, hold thumb over the top and withdraw sample
- Soda-lime glass units break easily for quick disposal
- Length: 43" (109cm)



14-209 Series

Capacity	Length	Mfr. No.	Cat. No.	Case of
0.85 oz. (25mL)	0.25" (7.5mm)	885300	**14-209-72**	100/202.00
1.7 oz. (75mL)	0.25" (12mm)	885302	**14-209-73**	24/88.70
5.1 oz. (150mL)	0.75" (18mm)	885303	**14-209-74**	24/127.10

Wheaton™ Disposable Glass Coliwasa Sampler

Constructed of soda-lime glass with liquid-tight PTFE-lined seal

14-209-60

- Prescored components allow for easy disposal
- PTFE seal locks the sampled column in place
- Transfer sample to appropriate container without any loss

ORDERING INFORMATION:

- Dimensions: 0.88" dia. × 42"L (2.2 × 107cm)
- Tapered bottom with 0.5" dia. (1.3cm) opening

Capacity	Mfr. No.	Cat. No.	Case of 12
6.8 oz. (200mL)	885220	**14-209-60**	155.60

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Scissors

General Purpose

Fisherbrand® Heavyweight Short-Blade Scissors

Reinforced clip point for cutting heavy fabric and paper

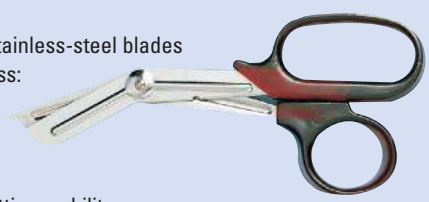
14-275B

- Hot-hammer forged, hardened and tempered of special cutlery steel
- Double-plated chrome over nickel with black enameled handles

Overall Length	Cut Length	Cat. No.	Each	Case of
6" (150mm)	2.75" (70mm)	**14-275A**	75.58	6/372.50
8" (200mm)	4" (100mm)	**14-275B**	92.11	4/302.50

Fisherbrand® Utility Cutter Short Angled-Blade Scissors

Cut paper, bandages, vacuum tubing, leather and wire up to 24-gauge steel



14-277

- Extremely hard stainless-steel blades
- Rockwell hardness: HRC 52 to 55
- One blade finely serrated for better cutting
- Pivot point for cutting mobility
- Heavy-duty polycarbonate handles
- Autoclavable

COMPLIANCE: Manufactured under ISO 9001, cGMP Guidelines

Length	Cut Length	Cat. No.	Each	Pack of 6
7" (178mm)	2" (51mm)	**14-277**	26.93	132.80

Fisherbrand® Utility Scissors

For general use

08-945

- Straight, ASTM™ F899-84 stainless-steel blades
- Rockwell hardness: HRC 46-50
- Passivated to avoid rust contamination
- Fully autoclavable
- Sterilizable by EtO and gamma radiation

COMPLIANCE: Manufactured to ISO 9001, cGMP guidelines

Overall Length	Cut Length	Cat. No.	Each	Case of 10
4.50" (114mm)	1.56" (40mm)	**08-945**	24.84	204.50

Fisherbrand® Straight-Blade Operating Scissors

Forged from surgical-grade stainless steel

- Rockwell hardness: HRC 46 to 50
- Passivated
- Autoclavable
- Can be sterilized by EtO/Gamma radiation
- Inspected per U.S. Government specifications
- Produced under ISO 9001, cGMP Guidelines

13-806 (top); 13-806-2 (bottom)

Blade Tips	Length	Cat. No.	Each	Case of 10
Blunt/Blunt	4.5" (114mm)	**13-806**	68.44	562.00
Blunt/Sharp	4.5" (114mm)	**13-806-2**	30.55	251.00
	5.5" (140mm)	**13-808-2**	35.80	294.00
	6.5" (165mm)	**13-810-2**	43.50	357.50
Sharp/Sharp	4.5" (114mm)	**13-806-4**	53.45	438.50
	5.5" (140mm)	**13-808-4**	56.41	463.50
	6.5" (165mm)	**13-810-4**	39.02	----

Dissecting

Fisherbrand® Straight Microscissors

Automatic function

- Rockwell hardness: HRC 46 to 50
- Passivated
- Autoclavable
- Can be sterilized by EtO/Gamma radiation
- Quality control per U.S. Government specifications
- Produced under ISO 9001, cGMP Guidelines

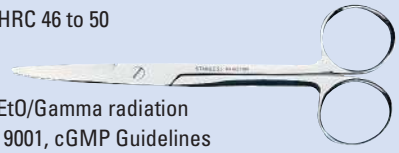
08-953-1B

Length	Cat. No.	Each
4.75" (120mm)	**08-953-1B**	77.75

Fisherbrand® Mayo Dissecting Scissors

Quality control per U.S. Government specifications

- Rockwell hardness: HRC 46 to 50
- Passivated
- Autoclavable
- Can be sterilized by EtO/Gamma radiation
- Produced under ISO 9001, cGMP Guidelines
- Semi-blunt points, heavy pattern



13-804-6

Style	Length	Cat. No.	Each	Case of 6
Straight	5.5" (140mm)	**13-804-6**	46.51	229.50
Straight	6.75" (171mm)	**13-804-8**	56.00	274.50
Curved	5.5" (140mm)	**13-804-5**	42.89	211.50
Curved	6.75" (171mm)	**13-804-12**	44.73	221.00

Fisherbrand® Delicate Dissecting Scissors

Forged from surgical-grade stainless steel

- Rockwell hardness: HRC 46 to 50
- Passivated
- Autoclavable
- Can be sterilized by EtO/Gamma radiation
- Inspected per U.S. Government specifications
- Produced under ISO 9001, cGMP Guidelines
- Thin, sharp blades

08-951-5

Style	Length	Cat. No.	Each	Case of 10
Straight	4.5" (114mm)	**08-951-5**	56.10	460.50
Curved	4.5" (114mm)	**08-951-10**	49.47	406.50

Fisherbrand® Standard Dissecting Scissors

Two styles available — straight and curved

- Rockwell hardness: HRC 46 to 50
- Can be sterilized by EtO/Gamma radiation
- Passivated
- Autoclavable
- Inspected per U.S. Government specifications
- Produced under ISO 9001, cGMP Guidelines
- Sharp blades

08-951-20

Style	Length	Cat. No.	Each	Case of 10
Straight	6" (150mm)	**08-951-20**	46.82	392.50
Curved	5.125" (130mm)	**08-951-25**	73.75	606.00

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The Fisherbrand portfolio is home to 10,000+ products guaranteed to fit your every need. There isn't a space in your lab that isn't a perfect place for our equipment, instruments and consumables. Individually, our products embrace a 50-year tradition of quality and reliability; together, they deliver purchasing efficiencies and cost savings from a trusted single source. **Visit www.fishersci.com/fisherbrand.**

ON THE WEB...

Looking for more scissors?

Visit www.fishersci.com and search for Scissors

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

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focus on the science

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Uncomplicated access to the highest quality instrument and laboratory services to spend more time on discovery, less on anything else.

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We take serving science seriously. Unity Lab Services provides a single source for integrated lab service, support and supply management. Our customized service offerings and world-class service experts have the flexibility and experience to uniquely address your business needs. Whether you are looking to arrange for service on one instrument, or are seeking resources to manage service and support for all your labs, there is a Unity Lab Services solution to meet your business needs.

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- Instrument-Level Services – Support Plans, Parts, Consumables, Accessories and more.
- Enterprise-Level Services – Asset Management Services, Supply Management Services, Scientific Support Services and Consulting Services.

Unity™ Lab Services
Part of Thermo Fisher Scientific

Let our expertise
complement yours

Instrument Level Services

Unity Instruments Services – Protect your investment

Laboratory and scientific equipment are major investments and are critical to your lab. Unity Lab Services can help protect and optimize that investment while freeing you to focus on your work, not burdened with managing instrument service. We provide a complete portfolio of customized, integrated and innovative services and support solutions designed to help you improve productivity, reduce total cost of ownership and ensure compliance throughout your laboratory – from instrument and equipment acquisition to disposition.

Our services include:

- Installation – We provide timely and worry-free on-site installation and hands-on training to ensure full knowledge and satisfaction.
- Support Plans – An affordable range of Support Plans and Extended Warranty options to optimize performance and maximize cost savings.
- Compliance Services – We provide qualification and calibration of your instruments to ensure they are compliant with manufacturer specifications, your needs and relevant standards.
- Relocation Support – Seamless de-commissioning, transportation and system verification after re-installation.

Unity Instruments Services

Services Offered at the Lab, Site or Enterprise Level

Unity Supply Management Services – Streamline Your Processes

Our logistics expertise provides effective supply management via optimally balancing researcher productivity and minimizing expenses related to the procurement, movement and inventory of supplies. Our Supply Management Services streamline processes and increase resource availability.

Our services include:

- Order Management
- Dock Management
- Inventory Management
- Chemical Management
- Hazardous Waste Management
- E-Business Services

Unity Supply Management Services

Unity Asset Management Services – One Contract, One Solution, One Call

Our experienced service team offers an integrated solution for managing the maintenance of all assets within a laboratory, regardless of manufacturer, and provides superior service at the best possible cost. Our industry and service experts effectively streamline our clients' asset maintenance to drive efficiencies, increase uptime and decrease inventory costs.

Our services include:

- One call for all Analytical Instrument Service needs
- Asset Inventory Management
- SmartCapture Asset Utilization Monitoring
- Corrective Maintenance Services
- Service options include highly trained Unity Lab Services Multi-Vendor Service Engineers
- Planned Maintenance Services
- Calibration and Qualification Services
- Compliance Services

Unity Asset Management Services

Unity Consulting Services – World-Class Experts to Solve Your Toughest Challenges

We provide access to the most renowned base of scientific expertise in the industry. Our seasoned experts understand your business, possess experience implementing your industry's best practices, and will apply that expertise to enhance your lab's efficiency. Whether the solution is for complex research or routine testing, our team can recommend a solution to address your laboratory challenges today and into the future.

Our Consulting Services can identify:

- Outsourcing potential services, process improvements
- Supply chain optimization through process mapping and data analysis
- Research study improvements and guidance
- Setting up new labs for optimum efficiency
- Training for all laboratories.

Unity Consulting Services

Scientific Support Services – Leverage our scientific expertise to maximize your resources

We offer a wide range of support services to help you maximize your resources for optimal productivity. We have the flexibility and expertise to provide a wide range of products, programs, and services to meet your unique needs.

Our services include:

- Media Preparation
- Glassware Washing and
- Management
- Gas Cylinder Management
- Garment Management

Scientific Support Services

Before You Buy **Orbital Shakers**

eppendorf

Making the Right Choice

- Determine your temperature requirements; cultures at 30°C or below require an incubated/ refrigerated shaker
- Will a benchtop unit provide enough capacity or would a stackable unit double or triple your lab space
- Universal platforms allow for flexibility in selecting flask sizes and dedicated platforms with pre-installed flask clamps of one size maximize platform capacity
- For flasks up to 6L, incubated/ refrigerated floor shakers allow easy access for larger capacity needs

Quality and Reliability

- Given the daily need to incubate cells; select a drive mechanism with long term reliability and a proven track record
- Large flask applications at high speeds can stress a shaker; inquire about a shaker's maximum allowable sample weight
- To provide an ideal cell culture environment, a uniform and precise temperature control is required; compare shaker specifications
- Look for automatic restart after power interruption to maintain cell cultures

Features To Look For

For over 60 years, New Brunswick Shakers have provided innovation and reliability as the lab standard for cell culture in shake flasks.

Heavy-duty construction — built to last:

- Broad-based cast-iron drive mechanism with independent counterbalance supports high-speed applications and heavy workloads
- Components are fabricated to exacting specifications; drive shafts are machined to tolerances of 5 micrometers, ensuring stable, vibration-free operation

Innova™ and I Series shakers are designed for continuous operation at speeds up to 500 rpm under the heaviest loads. These models feature tight temperature and speed control, and offer our stable triple-eccentric counterbalanced drive for worry-free operation for many years to come. Eppendorf's New Brunswick Excella™ biological shakers provide advanced features and excellent performance at an affordable price.

	126/126R	**Excella E25/25R**	**Excella E24/24R**	**Innova 2100**	**Excella E1/ E2**
Shaker Type	Stackable	Floor	Benchtop	Benchtop	Benchtop
Platform size (inches)	30 × 18	30 × 18	18 × 18	18 × 18	13 × 11
Temperature Range (°C)	Ambient +5 to 60	Ambient +7 to 60	Ambient +7 to 60	Open-air	Open-air
Max Flask Size	2.8 L	6 L	2.8 L	6 L	500 ml
Orbit	1"	1"	3/4"	3/4"	3/4"
Speed (rpm)	25–400	50–400	50–400	25–500	50–400

Shakers

Orbital

Thermo Scientific™ MaxQ 5000 Floor-Model Shakers

High-capacity floor model units hold large 4L and 6L flasks

- Easily accommodate six 4L flasks, four 6L flasks, or six 2800mL Fernbach flasks
- Wide temperature range: 10°C above ambient to 60°C on incubated models, 15°C below ambient to 60°C on refrigerated models
- Monitor and control chamber temperature range with ±0.1°C accuracy at 37°C
- Overtemperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails
- Triple eccentric drive handles heavy loads, uniform agitation and continuous 24 hr. operation, even at high speeds
- Side drain system permits easy access and cleanup of spills
- Drip pan built into the chamber floor under the platform contains spills
- Clear, scratch-resistant lid for sample viewing
- With foot pedal for hands-free operation and retractable casters for portability
- Optional shelf provides additional storage space and convenience when switching flasks
- Access ports provided through side of cabinet wall for probes, thermocouples or sensors
- Optional gassing manifold enables direct gassing into flasks for anaerobic cultures

Analog Models

- Easy-to-read LED digital temperature display
- Perform timed studies with timed operation from 1 to 60 minutes or operate shaker in continuous mode

Digital Models

- Variable speed control from 15 to 500rpm
- Continuous and timed operation from 0.1 hour up to 999 hours or 0.1 to 999 min.
- View speed, time and temperature simultaneously on three separate LED digital displays
- Visual/audible alarms alert to temperature deviations; heat turns off if temperature deviates ±1°C of setpoint
- Shaker shutdown and audible/visual alarms signal if unit operates ±10% of set speed, preventing the shaker from walking
- Soft-start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized
- Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected
- Retains parameters during power failure and restarts unit automatically after power is restored
- Solid-state DC brushless motor is maintenance-free
- RS-232 interface allows remote monitoring of speed, time and temperature

11-675-208

Overall Dimensions

- Platform dimensions: 30 × 18" (76 × 45cm)
- Overal Dimensions L × W × H: 32 × 41 × 41" (83.1 × 104.1 × 104.1cm)

Shipping Weight

- Models SHKA5000 and SHKE5000
- 476 lb. (215.9kg)
- Models SHKA5000-7 and SHKE5000-7
- 512 lb. (232.2kg)

ORDERING INFORMATION:
For a complete system, order platforms and clamps (sold separately)

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps). Clamps. See attached brochure for more details.

CERTIFICATIONS:
cUL, UL, CE

Specifications	
Motor	Triple eccentric drive
Capacity	Six 4L flasks, four 6L flasks, or six 2800mL Fernbach flasks
Orbit	1" (2.5cm)
Platform L × W	30 × 18" (76 × 46cm)
Load Capacity	75 lb. (34kg)
Overall L × W × H	32 × 41 × 41" (81.3 × 104.1 × 104.1cm)

Type	Speed Range	Temperature Range and Accuracy	Electrical Reqts.	Shipping Weight	Mfr. No.	Cat. No.	Each
Large Incubated							
Digital	15-500rpm, ±1rpm	10°C above ambient to 60°C; ±0.1°C at 37°C in flask	120V 50/60Hz	476 lb. (215.9kg)	SHKE5000	**11-676-150**	13,812.00
Refrigerated							
Analog	40-400rpm	15°C below ambient to 60°C; ±0.1°C at 37°C in flask	120V 50/60Hz	512 lb. (232.2kg)	SHKA5000-7	**11-675-939**	13,276.04
Digital	15-1500rpm ±1rpm	15°C below ambient to 60°C; ±0.1°C at 37°C in flask	120V 50/60Hz	512 lb. (232.2kg)	SHKE5000-7	**11-675-208**	15,651.07

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ MaxQ™ 7000 Water Bath Orbital Shaker

Exceptionally precise temperature control

The MaxQ 7000 is easy to drain and disinfect with the front-access drain system and quick disconnect. Twin baffles minimize splashing and turbulence in the chamber. Choice of stainless-steel or Plexiglas™ cover minimizes evaporation and heat loss.

- Temperature range of 5°C above ambient to 90°C with use of stainless steel covers
- Monitor and control chamber temperature range with ±0.2°C accuracy at 37°C in flask
- View speed, time and temperature simultaneously on three separate displays
- Triple eccentric drive handles heavy loads, uniform agitation and continuous 24-hr. operation, even at high speeds
- Easy access drain system with quick disconnect is located in the front of the cabinet for convenience in draining and disinfecting the system
- Low-level water alarm alerts operator
- Overtemperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails
- Optional cooling coil extends the range of applications to near and below ambient
- Holds 11 × 13" platform which must be ordered separately

Digital Model

- Speed range: 15 to 500rpm, ±1rpm
- Continuous and timed operation from 0.1 hr. up to 999 hr. or 0.1 min. to 999 min.
- Shaker shutdown and audible/visual alarms signal if unit operates ±10% of set speed, preventing shaker from walking
- Visual/audible signals alert to temperature deviations and low water levels; heat turns off if temperature deviates ±1°C of setpoint
- User-adjustable speed calibration can be performed using a digital handheld tachometer
- Unbalanced load sensor stops platform motion when excess vibration is detected; visual/audible alarms signal until condition is corrected
- Soft-start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure
- Solid-state DC brushless motor is maintenance-free
- Retains parameters during power failure and restarts automatically after power is restored

11-675-211, 11-676-114

ORDERING INFORMATION:
For a complete system, order platforms and clamps (sold separately).

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps). Clamps. See attached brochure for more details.

CERTIFICATIONS:
UL, cUL, CE

Specifications	
Temperature Range	5°C above ambient to 65°C
Temperature Accuracy	±0.2°C accuracy at 37°C in flask
Motor	Triple eccentric drive
Orbit	0.5" (1.27cm)
Platform L × W	11 × 13" (27.9 × 33cm)
Platform Load Capacity	35 lb. (15.9kg)
Overall L × W × H	25 × 21.5 × 18" (63.5 × 54.6 × 45.7cm)
Shipping Weight	107 lb. (48.5kg)

Type	Speed Range	Electrical Reqts.	Mfr. No.	Cat. No.	Each
Digital	15 to 500rpm ±1rpm	120V 50/60Hz	SHKE7000	**11-675-211**	7997.00
Digital	15 to 500rpm ±1rpm	240V 50/60Hz	SHKE7000-1CE	**11-676-114**	6384.09

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Thermo Scientific™ MaxQ™ 2000 and 3000 Benchtop Orbital Shakers

Durable, easy-to-use open-air shakers

Choose the MaxQ 2000 for smaller loads and the 3000 for larger ones. The triple-eccentric drive handles heavy loads, provides uniform agitation and continuous 24/7 operation, even at high speeds. The CO_2-resistant digital unit can be used continuously in a CO_2 incubator without malfunction or the formation of carbolic acid on electrical components.

- Platform sizes accept loads up to 35 lb. on the 2000 and 50 lb. on the 3000
- Operate in temperature ranges of 0° to 40°C (104°F), 20 to 80% noncondensing humidity
- Can be used in a variety of incubators, warm rooms, environmental chambers and refrigerators
- Digital models feature a maintenance-free, solid-state DC brushless motor

Analog Models

- Variable speed from 40 to 400rpm, controlled by a rotary dial monitored accurately by a traditional tachometer
- Perform timed studies with timed operation from 1 to 60 min. or operate shaker in continuous mode

Digital Models

- Variable speed control from 15 to 500rpm
- Continuous and timed operation from 0.1 hr. up to 999 hr. or 0.1 min. to 999 min.
- Minimize errors: speed and operating time display simultaneously on two individual LED displays
- Shaker shutdown and audible/visual alarms signal if unit operates ±10% of set speed, preventing shaker from walking
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized
- Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected
- Soft-start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure
- Retains parameters during power failure and restarts unit automatically after power is restored
- RS232 interface allows remote monitoring of speed and time
- CO_2-Resistant Digital Operating System
- Electrical and mechanical components treated to protect them from up to 10% CO_2 and 95% noncondensing humidity
- Prevents humidity and CO2 from reacting with electrical components and forming carbolic acid

11-675-212

Platform Dimensions

- Small: 11 × 13, 18 × 18, 18 × 24" (27.9 × 33, 45.7 × 45.7, or 45.7 × 60.9cm)
- Large: 30 × 18 or 36 × 24" (76.2 × 45.7 or 91.4 × 60.9cm)

Overall Dimensions Inches (cm)

Models SHKA2000, SHKA2000-1CE, SHKE2000, SHKE2000CO2:

- 17.4 (44.2) ×13.5 (34.3) × 6.4 (16.3)
- Models SHKA3000, SHKE3000:
- 25.8 (65.5) × 29.4 (74.4) × 9.7 (24.6)

Shipping Weight Lb. (kg)

Models SHKA2000, SHKA2000-1CE, SHKE2000, SHKE2000CO2:

- 47 (21.3)
- Models SHKA3000, SHKE3000:
- 207 (93.9)

ORDERING INFORMATION:
For a complete system, order platforms and clamps (sold separately).

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps).

CERTIFICATIONS:
UL, cUL, CE

Specifications	
Operating Temperature Range	0° to 40°C
Operating Humidity Range	20 to 80% noncondensing humidity
Motor	Triple eccentric drive

Type	Speed Range	Orbit Diameter In. (cm)	Max Load Lb. (kg)	Electrical Requirements	Mfr. No.	Cat. No.	Each
Small Capacity Open Air							
Analog	40 to 400rpm	0.75" (1.9cm)	35 lb. (15.9kg)	120V 50/60 Hz	SHKA2000	**11-675-927**	1933.00
Digital	15 to 500 ±1rpm	0.75" (1.9cm)	35 lb. (15.9kg)	120V 50/60 Hz	SHKE2000	**11-675-200**	2740.00
Large Capacity Open Air							
Analog	40 to 400rpm	1" (2.54cm)	50 lb. (22.7kg)	120V 50/60 Hz	SHKA3000	**11-675-929**	5176.10
Digital	15 to 500rpm ±1rpm	1" (2.54cm)	50 lb. (22.7kg)	240V 50/60Hz	SHKE3000-1CE	**11-676-093**	6620.00
Digital	15 to 500 ±1rpm	1" (2.54cm)	50 lb. (22.7kg)	120V 50/60 Hz	SHKE3000	**11-675-201**	6620.00
Small Capacity CO_2 Resistant Open Air							
Digital	15 to 500 ±1rpm	0.75" (1.9cm)	35 lb. (15.9kg)	120V 50/60 Hz	SHKE2000CO2	**11-675-212**	4830.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ MaxQ™ 4000 Benchtop Orbital Shakers

Ideal combination of incubated/refrigerated temperatures with orbital shaking

MaxQ 4000 benchtop orbital shakers are durable and easy to use with a spacious 18 × 18" platform for higher vessel capacity. These benchtop units handle up to six 2L flasks. The clear, scratch-resistant lid allows unobstructed sample viewing without disturbing chamber temperature.

- Triple eccentric drive delivers uniform motion with 0.75" (19mm) circular orbit
- Timed or continuous-run modes
- Clear, scratch-resistant lid for sample viewing
- Safety interlock stops platform when lid is opened
- Precisely monitor temperature and control chamber temperature over complete range with +/-0.1C accuracy at 37C with PID temperature controller
- Over temperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails

Analog Models

- Speed control from 40 to 400rpm by rotary dial
- Integrated tachometer monitors and displays speed in rpm to guarantee an accurate setting
- Easy-to-read LED digital temperature display
- Continuous and timed operation from 1 to 60 min.

Digital Models

- Variable speed control from 15 to 500 rpm
- View speed, temperature and time simultaneously on three individual LED displays which helps minimize errors in establishing running conditions
- Continuous and timed operation from 0.1 hr. up to 999 hr. or 0.1 min. to 999 min.
- Shaker shutdown and audible/visual alarms signal if unit operates ±10% of set speed, preventing shaker from walking
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized
- Unbalanced load sensor stops platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected
- Soft-start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure
- Solid-state DC brushless motor is maintenance free

Overall Dimensions Inches (cm)

Models SHKA4000, SHKE4000, SHKA4000-5, SHKE4000-5:

- 32 (81.3) × 22.5 (57.2) × 22 (55.9)
- Models SHKA4000-7, SHKE4000-7:
- 34 (86.4) × 22.5 (57.2) × 22 (55.9)

11-675-204

Shipping Weight Lb. (kg)

Models SHKA4000, SHKE4000, SHKA4000-5, SHKE4000-5:

- 167 (75.8)
- Models SHKA4000-7, SHKE4000-7:
- 212 (96.2)

ORDERING INFORMATION:
For a complete system, order platforms and clamps (sold separately).

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps). See attached brochure for more details.

CERTIFICATIONS:
UL, cUL, CE

Specifications	
Motor	Triple eccentric drive
Chamber Capacity	6 (2L) flasks
Orbit	0.75" (1.9cm)
Platform L × W	18 × 18" (45.7 × 45.7cm)
Platform Load Capacity	50 lb. (22.7kg)

Type	Speed Range	Temperature Range and Accuracy	Electrical Requirements	Mfr. No.	Cat. No.	Each
Large Incubated						
Analog	40 to 400rpm	10°C above ambient to 60°C;±0.1° at 37°C in flask	120V 50/60Hz	SHKA4000	**11-675-931**	6570.00
Digital	15 to 500rpm ±1rpm	10°C above ambient to 60°C; ±0.1° at 37°C in flask	120V 50/60Hz	SHKE4000	**11-675-204**	8019.00
Large Incubated High Temperature						
Analog	40 to 400rpm	10°C above ambient to 80°C; ±0.1° at 37°C in flask	120V 50/60Hz	SHKA4000-5	**11-675-933**	7237.11
Digital	15 to 500rpm ±1rpm	10°C above ambient to 80°C; ±0.1° at 37°C in flask	120V 50/60Hz	SHKE4000-5	**11-675-205**	8300.00
Digital	15 to 500rpm ±1rpm	10°C above ambient to 80°C	240V 50/60Hz	SHKE4000-6CE	**11-676-103**	8302.21
Large Incubated and Refrigerated						
Analog	40 to 400rpm	15°C below ambient to 60°C; ±0.1° at 37°C in flask	120V 50/60Hz	SHKA4000-7	**11-675-935**	8860.00
Digital	15 to 500rpm ±1rpm	15°C below ambient to 60°C; ±0.1° at 37°C in flask	120V 50/60Hz	SHKE4000-7	**11-675-206**	9720.00

Thermo Scientific™ MaxQ™ HP Incubated and Refrigerated Console Shakers

Ideal for large 4L and 6L flasks

Shakers feature HEPA filtration for maximum protection from contamination, a directed airflow system for optimum temperature uniformity and ideal growth conditions — even when the units are full. Ergonomic design ensures convenient access, and a front drain system makes the chamber easy to clean.

- Microprocessor Control
- Operating temperatures: Incubated: 5°C above ambient to 60°C (41°F to 140°F) or Incubated/Refrigerated: 4° to 60°C (39.2° to 140°F) in 0.1°C increments with ±0.1°C control
- Displays run and setpoints of temperature, speed and time simultaneously on a 20-character backlit display
- Alphanumeric status messages on cycle status
- Menu-driven programming for quick, easy access to all parameters
- Audible/visual over- and undertemperature tracking and safety alarms ensure product protection
- Audible/visual, high/low rpm tracking alarms alert to speed deviations

Performance

- Unique HEPA filtration system
- HEPA filter rated a minimum 95% efficient at 0.3µm for entrapment of extraneous airborne particulates
- Laminar airflow across the chamber aids temperature uniformity
- Low-end temperature achieved by filtered, front-to-back refrigeration system airflow

Construction

- Crevice-free, stainless-steel interior with coved corners for easy cleaning
- Drain system with valve in front of chamber for easy liquid elimination
- Lid opens by hand or by depressing foot pedal for hands-free operation when loading vessels
- Angled sides, lower front, and convenient platform height ensure a comfortable reach into chamber
- Thermal pane window provides a large 2.75 sq. ft. (0.3m^2) viewing area
- Access port (back of cabinet wall) for probes, CO_2 gassing manifold, or other equipment
- Optional shelf provides additional storage

ORDERING INFORMATION:
Platform not included.

WARRANTY:
One-year parts, five-years labor, and lifetime on the drive mechanism.

CERTIFICATIONS:
UL, cUL and CE

11-676-237

Specifications	
Speed Range	25 to 525rpm
Speed Control	±1rpm
Orbit	1" (2.5cm)
Timer	Continuous operation (hold) or timed operation from 1 min. up to 199 hr. 59 min.
Temperature Uniformity	0.2° at 37°C (in flask)
Platform L × W	29.5 × 18" (74.9 × 45.7cm)
Interior D × W × H	21.1 × 34.3 × 18.5" (53.6 × 87.1 × 47cm)
Overall L × W × H	30 × 45 × 40.4" (76.2 × 114.3 × 102.6cm)
Operating Conditions [Humidity]	80% RH at or below 31°C (87.8°F), decreasing linearly to 50% RH at 40°C (104°F)
Operating Conditions [Temperature]	15° to 32°C (59° to 89.6°F)
Net Weight	635 lb. (288kg)
Shipping Weight	665 lb. (302kg)

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Incubated Console Shaker	120V 60 Hz, 8.6A	SHKE435HP	**11-676-237**	14,890.21
Incubated Console Shaker	230V 50/60Hz, 3.5A	SHKE436HP	**11-676-234**	14,890.21
Refrigerated Console Shaker	120V 60 Hz, 15.6A	SHKE480HP	**11-676-235**	16,580.00
Refrigerated Console Shaker	230V 50Hz, 8A	SHKE481HP	**11-676-236**	16,574.00

Fisher Scientific™ Incubating/ Cooling Mini Shakers

Microplate ready without needing additional accessories

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Prices subject to change.

Thermo Scientific™ MaxQ 4450 Benchtop Orbital Shakers

Compact benchtop units, ideal for holding four 1L flasks

Clear, scratch-resistant lid allows unobstructed sample viewing without disturbing chamber temperature.

- Chamber holds four 1L flasks
- Choose from two temperature ranges: incubated (5°C above ambient to 80°C) or with a cooling coil option that requires a chiller (5°C below ambient to 80°C)
- Monitor and control chamber temperature range with ±0.1°C accuracy at 37°C
- Triple eccentric drive handles heavy loads, uniform agitation and continuous 24-hour operation, even at high speeds
- Overtemperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails
- Interlock stops platform when lid is opened

Analog Models

- Speed is controlled by a rotary dial, monitored accurately by a traditional tachometer
- Easy-to-read LED digital temperature display
- Speed: 40-400rpm
- Integrated tachometer monitors and displays speed in rpm to guarantee an accurate setting
- Timed: 1 to 60 min. or continuous

Digital Models

- Three individual LED displays: speed, time and temperature
- Variable speed control from 15 to 500rpm
- Continuous and timed operation from 0.1 hour up to 999 hours or 0.1 to 999 min.
- Shaker shutdown and audible/visual alarms signal temperature deviations or if unit operates ±10% of set speed, preventing shaker from walking
- Soft-start feature eliminates sudden starts and stops, splashing of vessel contents or wetting of flask closure
- Set point retention retains parameters during power failure and restarts unit automatically after power is restored
- Solid-state DC brushless motor is maintenance-free
- Operating Chiller
- Provides a refrigerated atmosphere
- For plasmid purification and protein expression in bacteria for use with MaxQ 4450 with cooling coil option
- Achieve temperature ranges from 20° to 30°C

ORDERING INFORMATION:
For a complete system, order platforms and clamps (sold separately).

11-675-43

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with re-installed clamps). See attached brochure for more details. All MaxQ 4450 shakers with cooling coil require a chiller sold separately.

CERTIFICATIONS:
UL, cUL, CE

Specifications	
Temperature Accuracy	±0.1°C at 37°C
Motor	Triple eccentric drive
Chamber Capacity	4 × 1L flasks
Orbit	0.75" (1.9cm)
Platform L × W	11 × 13" (28 × 33cm)
Platform Load Capacity	35 lb. (15.9kg)
Overall L × W × H	27.2 × 14.1 × 15.8" (69.1 × 35.8 × 40.1cm)
Shipping Weight	77 lb. (35kg)

Type	Speed Range	Electrical Requirements	Mfr. No.	Cat. No.	Each
Incubated without Cooling Coil					
Analog	40-400rpm	120V 50/60Hz	SHKA4450	**11-675-43**	4850.00
Digital	15-500rpm ±1rpm	120V 50/60Hz	SHKE4450	**11-675-202**	5670.00
Incubated with Cooling Coil (Requires Chiller)					
Analog	40-400rpm	120V 50/60Hz	SHKA4450CC	**11-675-470**	5115.15
Digital	15-500rpm ±1rpm	120V 50/60Hz	SHKE4450CC	**11-675-471**	5920.00
Digital	15-500rpm ±1rpm	240V 50/60Hz	SHKE4450CC-1CE	**11-676-099**	5927.21

Thermo Scientific™ MaxQ™ 6000 Incubated/Refrigerated Stackable Shakers

Combine orbital shaking with sample storage for general-purpose incubation

Stackable units accept flasks up to 6L. Two adjustable-height shelves provide added storage. Choose from two temperature ranges to fulfill a variety of molecular biology, protein expression, or plasmid purification studies.

- Available in incubated or refrigerated models
- Precisely monitor and control chamber temperature over complete range with ±0.1°C accuracy at 37°C with PID temperature controller
- Overtemperature safety feature with independent thermostat provides additional backup by controlling heat if main temperature controller fails
- Solid-state DC brushless motor, variable speed control from 15 to 500rpm
- Continuous and timed operation from 0.1 hour up to 999 hours or 0.1 minute to 999 minutes
- View speed, operating time and temperature simultaneously on three individual LED displays, which help minimize errors in establishing running conditions
- Displayed time counts up during continuous operation and down during timed runs
- Visual/audible signals alert user to temperature deviations; heat turns off if temperature deviates ±1°C of setpoint
- Shaker shutdown and audible/visual alarms signal if unit operates ±10% of set speed, preventing the shaker from walking
- Triple eccentric drive handles heavy workloads, provides uniform agitation, and enables continuous 24 hr. operation even at high speeds
- Eliminate sudden starts and stops with soft start feature
- User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized
- Safety interlock stops shaking motion when the door is open
- Platform motion stops when excess vibration is detected due to an unbalanced load
- Retains parameters during power failure and restarts unit automatically after power is restored
- RS-232 interface allows remote monitoring of speed, time and temperature
- Large viewing window and internal light allow sample visibility, minimizing the need to open the door
- Door can be hinged from the right or left by the user for convenient placement in the lab.
- 18 × 18" platform can be dual-tiered inside the chamber to double the shaking capacity.
- Corrosion-resistant stainless-steel chamber accommodates a variety of 18 × 18" (46 × 46cm) universal and dedicated platforms
- Durable powder-coated, cold-rolled steel exterior construction
- Electrical outlet inside chamber provides power for safe operation of shakers, stirrers or rotators
- Platform and clamps (sold separately)

11-675-209

Shipping Weight Lb (kg):

- Models SHKE6000, SHKE6000-ICE: 330 lb. (150kg)
- Models SHKE6000-7, SHKE 6000-8CE: 430 lb. (196kg)

ORDERING INFORMATION:
For a complete system, order platforms and clamps (sold separately)

INCLUDES:
Two adjustable-height perforated stainless-steel shelves.

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps).

WARRANTY:
Five-year on parts, one year on labor, and lifetime on mechanism

CERTIFICATIONS:
cUL, UL, CE

Specifications	
Control	Digital
Orbit	0.75" (1.9cm)
Timer	0.1 hr. up to 999 hr., 0.1 min. up to 999 min., or continuous
Platform L × W	18 × 18" (45.7 × 45.7cm)
Platform Load Capacity	35 lb. (15.9kg)
Material	Stainless-steel chamber; cold-rolled steel exterior
Overall L × W × H	33 × 27.5 × 40.5" (83.8 × 69.9 × 102.9cm)
Platform L × W	18 × 18" (45.7 × 45.7cm)
Motor	Triple eccentric drive

Type	Speed Range	Temperature Range	Temperature Accuracy	Electrical Requirements	Shipping Weight	Mfr. No.	Cat. No.	Each
Incubated	15-300rpm ±1rpm (stacked); 15-500rpm ±1rpm (unstacked)	10°C above ambient to 80°C	±0.5°C	120V, 60Hz	330 lb. (150kg)	SHKE6000	**11-675-209**	9734.13
Refrigerated	15-300rpm ±1rpm (stacked); 15-500rpm ±1rpm (unstacked)	15°C below ambient to 80°C	±0.5°C	120V 60Hz	430 lb. (195g)	SHKE6000-7	**11-675-210**	11,023.37

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ MaxQ™ 8000 Incubated Stackable Shakers

Stack up to three units

With three times the capacity of a floor shaker in virtually the same footprint, these units are ideal for high-volume research or scale-up work. They are built both for sensitive eukaryotic culture applications — with contamination-reducing HEPA filtration, coved corner design, single-piece chamber, and tight temperature uniformity — and for demanding prokaryotic culture applications, with rugged construction, wide speed range, and no limits on "hard shake" speed, even when stacked three-high.

Microprocessor Control/Monitoring System

- Run and setpoints displayed simultaneously
- Tracks total accumulated time on motor and drive systems
- Audible/visual over- and undertemperature tracking alarms ensure product protection
- Separate adjustable overtemperature safety alarm with independent probe provides additional backup on heated units
- Audible/visual, high/low rpm tracking alarms alert to speed deviations
- Alarms can be silenced temporarily and ring back as a reminder of unresolved alarm conditions
- Remote alarm contacts for convenient monitoring from another location
- Nonvolatile memory saves settings during a power outage and automatically restarts the unit after power is restored
- RS-232 port is standard and permits computer interface and monitoring of time, temperature and speed
- Controlled acceleration circuitry provides smooth start-up and stopping to eliminate splashing and wetting of flask closures
- Functions can be calibrated easily through the keypad and sealed control panel

Control Panel

- Backlit two-line, 40-character LCD alphanumeric display of actual (run) and setpoint parameters and alarm condition
- Icons/buttons allow easy programming of set parameters
- Time: Counts upward, showing total operating hours and minutes for the run
- Speed: Displays the actual platform speed (rpm) and speed set points
- Temp C: Displays the actual temperature inside the chamber and temperature set points

Construction

- Electronic components and HEPA filter easily accessed from the front during regular maintenance or service
- Flip-down handle/latch on quick-release base (included) prevents shaker from running if platform is not secured
- Insulated, fold-down door with slide-out platform provides 100% sample access
- Wide-view window and xenon light provide high visibility for harvesting
- Top platform height is under 61" (154.9cm) when units are stacked three high
- Heavy-gauge cold-rolled steel exterior
- Type 304 stainless-steel chamber with coved corners and built-in drain; holds 2L Erlenmeyer flasks, has xenon light with switch
- Magnetic door gasket for tight seal
- Stacking kit is included with each shaker at no additional cost

11-676-061

Mechanics

- Heavy-duty, eccentric drive mechanism allows extended speed ranges from 25 to 400rpm ±1rpm with minimal vibration, even when shakers are stacked three high
- Durable, dynamically balanced orbital shaker mechanism ensures optimum oxygenation and nutrient mixing, reduced cell clumping, and prevention of splashing and flask wetting
- Triple counterbalanced mechanism provides optimum handling of full or unbalanced loads, regardless of flask placement
- Cool-running, brushless, 1/3hp DC motor ensures continuous maintenance-free operation
- Forced laminar airflow through the HEPA filter provides excellent temperature uniformity, reduces risk of cross-contamination

ORDERING INFORMATION:
Platform not included. Optional single and double shaker stands and freestanding chart recorder is available.

INCLUDES:
Stacking kit with each shaker.

REQUIRES:
Dedicated or universal slideout shaker platform 29.5 × 18" (74.9 × 45.7cm), available separately.

CERTIFICATIONS:
UL, cUL, CE

Specifications	
Speed Range	25 to 400rpm ±1rpm
Orbit	1" (2.5cm)
Timer	Continuous or timed from 1 min. up to 199 hr. and 59 min.
Display	LED: Time, Speed, Temperature include run and setpoints
Capacity	Twelve 2L Erlenmeyer flasks
Cabinet	Heavy-gauge cold-rolled steel
Chamber	Type 304 stainless steel
Interior D × W × H	23.8 × 33.4 × 11.8" (60.5 × 84.6 × 30cm)
Overall L × W × H	33.3 × 46.5 × 25.0" (84.6 × 118.1 × 63.5cm)
Motor	1/3hp DC brushless

Description	Temperature Range	Temperature Accuracy	Overall L × W × H	Shipping Weight	Mfr. No.	Cat. No.	Each
Stackable, Incubated	10°C above ambient to 60°C (140°F)	±0.15°C at 37°C	33.3 × 46.5 × 25.0" (84.6 × 118.1 × 63.5cm)	658 lb. (298.5kg)	SHKE8000	**11-676-061**	14,525.00
Stackable, Incubated and Refrigerated	5°C or 20°C below ambient to 60°C (140°F)	±0.3°C (in flask)	33.3 × 56.5 × 25.0" (84.6 × 143.5 × 63.5cm)	723 lb. (328kg)	SHKE8000-7	**11-676-062**	16,504.08

Thermo Scientific™ MaxQ™ HP Tabletop Orbital Shaker

Operates in reach-in incubators, environmental rooms, or on lab benches

MaxQ HP Tabletop orbital shakers combine high durability and capacity with unequalled ease of use. The proprietary triple-counterbalanced heavy-duty mechanism prevents vibration, allowing the unit to run smoothly with heavy, out-of-balance loads. Every other part, from the large rubber block vibration isolator feet, to the thick machined aluminum platform, is designed to last through years of nonstop use.

- Triple counter-balanced mechanism provides optimum handling of full or unbalanced loads, regardless of flask placement, and completely eliminates "walking"
- Microprocessor controller displays run and setpoints simultaneously on a 20-character backlit display
- Easy programming with icon-based keys and alphanumeric messages
- Oversized adjustable, suction-cup style, rubber feet minimize vibration, provide maximum stability, even with heavy or unbalanced loads
- Heavy-duty, triple counter-balanced eccentric drive allows extended speed ranges
- Low-heat 24V DC motor with moisture-resistant electronics provides continuous maintenance-free shaker operation on the benchtop or in a chamber
- Heavy-duty, permanently lubricated bearings ensure long life, minimizing the risk of downtime
- Optional platforms are constructed of 0.31", heavy-duty, brushed anodized aluminium for durability and easy cleaning

ORDERING INFORMATION: Platforms and clamps not included.

WARRANTY: One-year parts, five-years labor, and lifetime on the drive mechanism.

CERTIFICATIONS: UL, cUL, and CE

11-676-233

Specifications	
Control	Microprocessor
Speed Range	25 to 525rpm ±1rpm
Orbit	1" (2.5cm)
Timer	Continuous or timed from 1 min. up to 199 hr., 59 min.
Operating Humidity Range	80% RH at or below 31°C (87.8°F), decreasing linearly to 50% RH at 40°C (104°F)
Operating Temperature Range	4° to 40°C (39.2° to 104°F)
Shipping Weight	234 lb. (106kg)

Description	Platform Sizes	Overall L × W × H	Electrical Requirements	Mfr. No.	Cat. No.	Each
Large Open Air Platform Shaker	29.5 × 18", 36 × 24" (74.9 × 45.7cm, 91.4 × 61cm)	26 × 30.5 × 7.8" (66 × 77.5 × 19.8cm)	115V, 50/60 Hz, 6.5A or 230V, 50/60 Hz, 3.2A	SHKE430HP	**11-676-233**	6970.00
Small Open Air Platform Shaker	18 × 18" or 24 × 18" (45.7 × 45.7cm or 61 × 45.7cm)	26 × 24.3 × 7.8" (66 × 61.7 × 19.8cm)	115V, 50/60 Hz, 1.0A or 230V, 50/60Hz, 0.5A	SHKE416HP	**11-676-231**	4400.00

Fisher Scientific™ Incubating Mini-Shakers

Designed to heat and shake variety of samples such as cell cultures and bacterial suspensions

SEE MORE...

Click here to see how the Fisher Scientific Incubating Mini-Shakers works!

Fisher Scientific moving on Program

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Prices subject to change.

Thermo Scientific™ MaxQ™ HP Incubated Tabletop Orbital Shaker

Holds six 2L flasks and allows sample viewing without disturbing chamber atmosphere

This model performs over the widest temperature range in the industry and ensuring flexibility for a broad range of applications.

- Microprocessor functions are calibrated easily via keypad
- Run and setpoints for temperature, speed and time can be viewed simultaneously on 20-character backlit display to minimize errors when inputting paramenters
- Alphanumeric status messages show cycle status
- Menu-driven programming makes parameters quick and easy to access
- Platform easily accommodates six 2L flasks or four 2800mL Fernbach flasks
- Double-wall, insulated chamber contributes to optimum, controlled uniformity
- Twin blowers ensure temperature uniformity, creating an ideal environment for temperature-sensitive cultures and heavy product loads
- Molded, clear acrylic lid with triplepoint reinforced hinges withstands years of use without cracking or discoloring
- Spill tray, sealed mechanism and control panel, and outside-chamber location of electronics ensure that shaker components are not damaged by spills
- Audible/visual over- and undertemperature tracking alarms ensure product protection
- Separate adjustable overtemperature safety alarm with independent probe provides additional backup
- Audible/visual, high/low rpm tracking alarms alert to speed deviations

ORDERING INFORMATION:
Platform not included.

WARRANTY:
One-year parts, five-years labor, and lifetime on the drive mechanism.

CERTIFICATIONS:
CE, UL, cUL

Description	Mfr. No.	Cat. No.	Each
Incubated Tabletop Orbital Shaker	SHKE420HP	**11-676-232**	8710.00

11-676-232

Specifications	
Control	Microprocessor
Capacity	Max. 2L Erlenmeyer
Speed Range	25 to 525rpm ±1rpm
Orbit	1" (2.5cm)
Temperature Range	5°C above ambient to 80°C (176°F)
Temperature Resolution	±0.1°C
Temperature Setting	0.1°C increments
Temperature Uniformity	±0.3°C at 37°C, ±0.6°C at 60°C, ±1.0°C at 80°C (in flask)
Timer[s]	Continuous operation (hold) or timed operation from 1 minute up to 199 hours and 59 minutes
Platform L × W	18 × 18" (47.5 × 47.5cm)
Interior D × W × H	21.2 × 21.4 × 12.6" (53.8 × 54.4 × 32cm)
Exterior L × W × H	29 × 24.3 × 20.9" (73.7 × 61.7 × 53.1cm)
Net Weight	185 lb. (83.9kg)
Shipping Weight	250 lb. (113kg)
Electrical Requirements	120V 60Hz, 6.5A or or 230V 50/60Hz, 3.2A
Plug Type	NEMA 5-15P

Fisher Scientific™ Isotemp™ Shake Touch High Speed Shakers

Includes block for 24 × 1.5mL microtubes, removable rack and cover

SEE MORE...

Click here to see how the Isotemp Shake Touch High Speed Shaker can be utilized in your lab!

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

Thermo Scientific™ MaxQ™ 2506 Reciprocating Shaker

Flexible, economical analog units are ideal for chemical extractions, mixing blood samples, and silver staining of polyacrylamide gels

11-675-152

Units feature an easy-to-use analog operating system and variable speed control for gentle to vigorous agitation. Built-in timer ensures repeatable results. Three interchangeable platforms provide increased capacity.

- Back-and-forth motion with adjustable stroke length (0.5 to 1.5" [1.2 to 3.8cm]) automates hand shaking of separatory funnels
- Can be used in incubators, warm rooms, environmental chambers and refrigerators
- Operates in continuous or timed (1 to 60 min.) mode
- Metal locking tab on speed control knob prevents speed from increasing or decreasing if knob is bumped DC motor and variable speed (10 to 250rpm) controlled by rotary dial

APPLICATIONS:

- Chemical extractions
- Mixing blood samples
- Silver staining of polyacrylamide gels

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps).

WARRANTY:
24 months

CERTIFICATIONS:
UL, cUL

Specifications	
Control	Analog
Speed Range	10 to 250rpm
Orbit	Adjustable from 0.5 to 1.5" (1.2 to 3.8cm)
Timer	1 to 60 min. or continuous
Motor	DC
Operating Temperature Range	4° to 40°C (39° to 104°F)
Operating Humidity Range	20 to 80% noncondensing
Platform Load Capacity	15 lb. (6.8kg)
Overall L × W × H	17.4 × 13.5 × 7.2" (44.2 × 34.3 × 18.3cm)
Shipping Weight	27 lb. (12.3kg)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V	SHKA2506	**11-675-152**	2510.00
240V	SHKA2506-1	**11-675-153**	2487.21

Thermo Scientific™ MaxQ™ 2508 Dual-Action Orbital Reciprocating Shaker

Affordable analog unit with back-and-forth or circular motion for a wide range of shaking applications

11-675-150

Variable speed control allows gentle to vigorous agitation. Built-in timer facilitates repeatable results. The versatile back-and-forth or circular orbital motion is ideal for a wide range of applications. A control lever changes the motion while the shaker is stationary or in operation.

- Shaking motion: back-and-forth, with fixed stroke angle of 0.4" (1.2cm) for shaking of separatory funnels, or fixed circular motion of 0.4" (1.2cm) for growing bacteria and yeast
- Can be used in incubators, warm rooms, environmental chambers and refrigerators
- Operates in temperature ranges of 4° to 40°C and humidity conditions of 20 to 80% noncondensing
- Timed (1 to 60 min.) or continuous
- Metal locking tab on speed control knob prevents increased or decreased speed if the knob is bumped
- DC motor and variable speed (40 to 400rpm) controlled by rotary dial

APPLICATIONS:
Growing bacteria, Dissolution studies, Staining of electrophoresis gels, Chemical extractions

REQUIRES:
Universal Platform (without clamps) or Dedicated Platform (with pre-installed clamps).

WARRANTY:
24 months

CERTIFICATIONS: UL, cUL, CE

Specifications	
Control	Analog
Speed Range	40 to 400rpm
Orbit	0.4" (1.2cm) circular or fixed stroke angle
Timer Range	1 to 60 min. or continuous
Motor	DC
Operating Temperature Range	4° to 40°C
Operating Humidity Range	20 to 80% noncondensing
Platform Load Capacity	15 lb. (6.8kg)
Overall L × W × H	17.4 × 13.5 × 7" (44.2 × 34.3 × 17.8cm)
Weight Shipping	38 lb. (17.2kg)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V	SHKA2508	**11-675-150**	2580.00
240V	SHKA2508-1CE	**11-675-151**	2580.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sartorius™ CERTOMAT™ RM Incubation Shakers

The high-performance shaker

The CERTOMAT™ RM with its powerful drive and digital control of speed and time is the classical workhorse for everyday lab work. Long service life and quiet running are guaranteed by the proven construction with a brushless motor, the strong Poly-V belt and the triple-eccentric drive system. The shaking intensity can be modulated by selecting an amplitude of 25mm or 50mm. The CERTOMAT™ RM is equipped with visual speed alarm, a memory function for automatic re-start after power failure and an analogue out for external recording of speed. In addtion, the CERTOMAT™ RM features adjustable mass compensation. While all other benchtop shakers have to use a fixed weight to compensate imbalances caused by the movement of mass, the CERTOMAT™ RM has a compensation weight that can be moved along an axis to the position optimally counteracting imbalance. This patented feature makes it possible to run even high loads at maximum speed without increased vibration and running noise. Setting of the compensation weight is done from the outside of the housing with a simple tool.

- High load and high speed applications
- Adjustable mass compensation for maximum speed

Mechanical Data

- Dimensions: W × H × D = 511 × 160 × 545mm
- Weight: (without tray) 46kg
- Housing: Steel construction
- Drive mechanism: Brushless motor, triple eccentric drive with adjustable mass compensation
- Trays, type|size Type E|EU (420 × 420mm)
- Type: F|FU (800 × 420mm)
- Tray fixation: Simple snap mechanism
- Max. load: > 20kg, mass compensation adjustable according to load
- Protection : IP21

Electrical data

- Connection: Class I cold socket, separate cable approx. 3m
- Protection: class I
- Line voltage: 230V|50Hz or 115 V|60Hz

14-559-189

- Amperage: 0.8A at 230V, 1.6A at 11V
- Fuses: 2 × T1 A at 230V, 2 × T 2A at 11V
- Interference: According to DIN EN 55022 and DIN EN 61000

Operating data

- Mode of shaking: Orbital, 25mm or 50mm, according to version
- Shaking speed: 40 to 400U/min
- Accuracy max.: ±1% of final value
- Setting|display: Alphanumeric key pad, LCD
- Timing: 0:01 to 98:59 hours; continuous action at 99:00 hours
- Memory function: Restart after power failure

Alarms visual

- Ambient temperature: +10°C to + 60°C
- Humidity : Avoid extreme humidity

Data output

- Analogue: For speed, 9-pin SUB-D socket, 0 to 10V or 0 to 20mA resp. 4 to 20mA (modification by technical service)

Description	Mfr. No.	Cat. No.	Each
CERTOMAT RM, 25mm	BBI-8862338	**14-559-188**	4599.00
CERTOMAT RM, 50mm	BBI-8862435	**14-559-189**	4599.00

Sartorius™ CERTOMAT™ BS-1 Incubation Shaker

The stackable incubation shaker

CERTOMAT™ BS-1 is suited for the growth of bacteria, yeast, insect and plant cells in a temperature-controlled environment from 8°C above ambient temperature up to 70°C. With an optional integrated cooling unit, the temperature range can be extended to -10°C. Also available is an optional illumination unit for growth of photosynthetic organisms. CERTOMAT™ BS-1 can be programmed to operate for specified periods at defined ranges of speed and temperature plus illumination. Five programs, each consisting of four steps and one pre-step, can be defined and stored. CERTOMAT™ BS-1 units can be stacked three units high in order to save valuable lab space. Due to the patented adjustable mass compensation system, all three stacked units can be run at maximum speed even when fully loaded.

- Three units stackable without speed reduction
- Adjustable mass compensation for maximum speed
- Fully programmable
- Five programs with four steps and one pre-step each
- Integrated cooling system optional

14-559-202

- Illumination unit optional
- Speed of 40 to 400 rpm
- Comprehensive alarm system
- Stainless steel interior

Description	Mfr. No.	Cat. No.	Price
CERTOMAT BS-1, 25mm, 115V/60Hz. (UH)	BBI-8865035	**14-559-202**	15,450.00
CERTOMAT BS-1, 50mm, 115V/60Hz.(UH)	BBI-8865132	**14-559-203**	15,965.00

New Brunswick Innova™ Models 2100 and 2150 Benchtop Platform Shakers

Benchtop platform shakers with advanced features, for flasks up to 6L

Choice of two models (square or larger rectangular platform). Both offer advanced operating and safety features for reliable, continuous-duty shaking of lab glassware. Proven Gyrotory™ drive mechanism delivers years of dependable service.

14-278-108

Operating Features

- Maximum flask size: 6000mL
- Shaking speed: 25 to 500rpm
- Shaking orbit: Circular, 0.75" dia. (19mm)
- Tactile keypad with digital LED display for speed, time remaining, and elapsed time
- 0.1 to 99.9-hour timer
- Speed and timer alarms

Design Features

- Triple-action Gyrotory drive delivers smooth, uniform shaking
- Microprocessor stabilizes rate to 1rpm of setpoint
- Feedback loop compensates for fluctuations in voltage, load imbalance or workload
- Low-profile design; can be stacked inside environmental chamber
- Retains setpoints in memory; automatic restart if power is interrupted
- Acceleration circuit prevents sudden starts and minimizes splashing

Model 2100

- Platform dimensions: 18L × 18"W (46 × 46cm)
- Overall dimensions: 21.87L × 19W × 6.37"H (54 × 48 × 17cm)
- Net weight: 76 lb. (35kg)

Model 2150

- Handles larger numbers of flasks
- Platform dimensions: 18L × 24"W (46 × 61cm)
  Overall dimensions: 21.87L × 24W × 6.37"H (54 × 61 × 17cm)
- Net weight: 80 lb. (36kg)

ORDERING INFORMATION:
Accessory platforms and trays sold separately

Special order options: Temperature/Speed Monitoring Kit (14-278-117) with RTD sensor displays and records process values (can be used with both models); Easy-Load Platform Kit (14-278-119) cuts platform changeover time (for both models); Capacity Upgrade Kit (14-278-143) retrofits Model 2100 to accept larger platforms designed for Model 2150; to purchase these items, contact your Fisher Scientific Customer Service Representative.

REQUIRES:
Platform or tray (sold separately)

WARRANTY: Three years on parts, two years on labor

Model	Platform L × W	Mfr. No.	Cat. No.	Each
2100	18 × 18" (46 × 46cm)	M1194-0000	**14-278-108**	4167.45
2150	18 × 24" (46 × 61cm)	M1194-0010	**14-278-109**	4544.40

New Brunswick Innova™ Models 2300 and 2350 Large-Capacity Platform Shakers

Advanced benchtop platform shakers for heavy workloads and flasks up to 6L

Choice of four models (1" or 2" circular orbit in two platform sizes). All offer advanced operating and safety features for reliable, continuous-duty shaking of tubes and flasks. Proven Gyrotory™ drive mechanism delivers years of dependable service.

14-278-106

Operating Features

- Maximum flask size: 6L
- Shaking speed: 25 to 500rpm
- Shaking orbit: Circular, 1 or 2" dia. (25.4 or 50mm)
- Tactile keypad with digital LED display for speed, time remaining, and elapsed time
- 0.1 to 99.9-hour timer
- Speed and timer alarms

Design Features

- Triple-action Gyrotory drive delivers smooth, uniform shaking
- Microprocessor stabilizes rate to 1rpm of setpoint
- Feedback loop compensates for fluctuations in voltage, load imbalance or workload
- Low-profile design; can be stacked inside environmental chamber
- Retains setpoints in memory; automatic restart if power is interrupted
- Acceleration circuit prevents sudden starts and minimizes splashing

Model 2300

- Platform dimensions: 18L × 30"W (46 × 76cm)
- Overall dimensions: 22.25L × 29W × 6.37"H (56.5 × 74 × 17cm)
- Net weight: 108 lb. (49kg)

Model 2350

- Handles larger numbers of flasks
- Platform dimensions: 24L × 36"W (61 × 91cm)
  Overall dimensions: 24L × 36W × 6.37"H (61 × 91 × 17cm)
- Net weight: 112 lb. (51kg)

ORDERING INFORMATION:
Accessory platforms and trays sold separately

Special order accessories: Temperature/Speed Monitoring Kit (14-278-117, for both models) with RTD sensor displays and records process values; Easy-Load Platform Kit (14-278-119, for Model 2300 only) cuts platform changeover time; to purchase these items, contact your Fisher Scientific Customer Service Representative.

REQUIRES:
Platform or tray (sold separately)

WARRANTY: Three years on parts, two years on labor

Model	Platform Size	Orbit	Mfr. No.	Cat. No.	Each
2300	18 × 30"	1"	M1191-0000	**14-278-106**	6923.70
2300		2"	M1191-0020	**14-278-164**	7297.50
2350	24 × 36"	1"	M1191-0010	**14-278-107**	7539.00
2350		2"	M1191-0030	**14-278-165**	7899.15

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New Brunswick I-26 Stackable Shakers

Maximize shaker capacity for space-limited labs

Individually controlled workhorses can be stacked up to three units high in the space typically occupied by a single incubating shaker. With advanced features for consistent, reproducible cell culturing.

Operating Features

- Microprocessor control with self-correcting Proportional/Integral feedback precisely regulates speed, temperature and run time
- User-friendly keypad with large display for setting speed, temperature, or time
- Smooth, quiet running
- Virtually maintenance-free
- 18 × 30" (46 × 76cm) accessory platforms slide out for easy access to cultures
- Accommodates flasks up to 2.8L
- Shaking speed range: 25 to 400rpm High-visibility 3/8" digital LED display with panel lights indicating active mode and function
- Feedback control maintains desired operating settings if conditions deviate from setpoints
- Timer: 0.1 to 99.9 hours or continuous operation
- Auto Restart retains current setting in memory

Design Features

- Triple-eccentric Gyrotory™ drive delivers years of dependable service
- Heavy-duty DC solid-state brushless motor with nine precision-fitted ball bearings
- Counterbalanced mechanism delivers smooth, uniform motion
- Soft start-up prevents spillage from flasks and tubes
- RS-232 data port
- Cast-iron base

Safety Features

- Acceleration/deceleration circuit prevents sudden starts and stops
- Speed-limiting sensor slows agitation to safe speed when overload or imbalance is detected
- Cutout switch stops agitation when lid is opened
- Thermostat fail-safe shuts off heater if high temperature limit is exceeded
- Audible/visual alarms alert operator to expired time and to deviations from temperature (±0.1°C) and speed (±5rpm) setpoints

Model I-26

- Incubator model
- Temperature range: 5°C above ambient to 60°C (140°F)

Model I-26R

- Refrigerated model
- Temperature range: 15°C below ambient to 60°C (140°F)

14-285-737

ORDERING INFORMATION:
Overall dimensions: 30L × 50W × 25"H (76 × 127 × 64cm);
Net weight: Model I-26, 440 lb. (200kg); Model I-26R, 490 lb. (222kg);
for 100/120V, 50/60Hz.

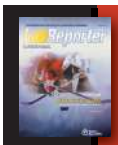
All I-26 Series accessories (platforms, stacking kits and bases) are designed specifically for these shakers; order separately

REQUIRES:
Platforms (not included); if multiple units will be stacked, stacking kit is required (2 kits needed to stack 3 shakers); all accessories sold separately

WARRANTY:
Three years on parts and two years on labor

CERTIFICATIONS: UL listed. CSA approved. CE marked.

Description	Mfr. No.	Cat. No.	Each
I-26 Shaker (Incubated)	M1324-0000	**14-285-737**	14,238.00
I-26R Shaker (Incubated/refrigerated)	M1324-0004	**14-285-738**	16,264.50



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QUARTERLY MAGAZINE

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New Brunswick Scientific Excella™ E24/E24R Temperature-Controlled Benchtop Shakers

Incubating or refrigerated units accept vessels up to 2.8L

Operating Features

14-285-732

- Flask capacity: 10mL to 2.8L
- Shaking speed range: 50 to 400rpm
- Shaking orbit: 0.75" dia. (19mm)
- Digital keypad control and LED display for speed, run time, alarms and temperature
- Timer: 0.1 to 99.9 hours
- LED indicates temperature settings in 0.1°C increments
- Powerful UniCentric drive is counterbalanced for continuous-duty shaking over a wide range of speed
- Microprocessor feedback-control maintains precise shaking speed
- Large-capacity circulating fan distributes air evenly throughout chamber to ensure accurate temperature control and rapid thermal recovery

Safety Features

- Automatic shutoff when lid is opened
- Automatic restart with settings stored in memory
- Maintains speed even with unbalanced loads
- Visual and audible warning signals when speed deviates more than 5rpm, or temperature more than 1°C, from setpoint
- Dependable and affordable shakers for reproducible cell growth
- Available in four incubating and four refrigerated models — all featuring a heavy-duty drive and cool-running motor for long life and quiet operation under heavier loads and higher speeds.
- Intuitive, spill-proof keypad allows easy input of parameters
- 0.56" (1.4cm) LED display shows running conditions and diagnostics (all models except E1)
- UniCentric™ drive and brushless DC motor ensure quiet, vibration-free operation
- Versatile — use same accessories as other New Brunswick Scientific shakers

Incubated Model E24

- Temperature Range: 7°C above ambient to 60°C
- Net weight: 135 lb. (61.2kg).
- Incubated and Refrigerated Model E24R
- Temperature Range: 15°C below ambient to 60°C
- Net weight: 180 lb. (81.6kg)

ORDERING INFORMATION:
Dimensions, Platform: 18L × 18"W (46 × 46cm);
Chamber: 20.25L × 21.5W × 14"H (51.4 × 54.6 × 35.8cm);
Overall: 22L × 30W × 24"H (56 × 76.2 × 61cm). For 120V 60Hz; accessory platforms, trays and racks sold separately.

REQUIRES: Platform or tray (sold separately)

WARRANTY: Two years on parts and labor

CERTIFICATIONS: UL listed. CSA approved. CE marked.

Model	Mfr. No.	Cat. No.	Each
E24, Incubating	M1352-0000	**14-285-732**	6783.00
E24R, Refrigerated	M1352-0004	**14-285-733**	9240.00

New Brunswick Scientific Excella™ E25/E25R Temperature-Controlled Console Shakers

Incubating or refrigerated shakers handle flasks up to 6L

Features

14-285-734/735

- For flasks from 50mL to 6L
- Shaking Range/ Control: 50 to 400rpm, ±2rpm
- Shaking Motion: Circular orbit, 1" dia. (2.54cm)
- UniCentric™ drive delivers consistent performance for reproducible results
- Display: LED for temperature, speed, alarm conditions and running time
- Timer: 0.1 to 99.9 hours
- Speed, timer and temperature alarms
- High-velocity air circulation system accurately maintains temperature within ±0.25°C
- Adjustable feet absorb vibrations to stabilize workload and prevent creeping
- Shake test tubes from 8 to 30mm diameter in adjustable-angle platform (14-285-698, sold separately)
- Accommodate flasks on dedicated flask or universal platforms (sold separately)

Incubator Shaker Model E25

- Temperature Range: 7° above ambient to 60°C (140°F)
- Net weight: 420 lb. (190kg)

Refrigerated Shaker Model E25R

- Temperature Range: 15°C below ambient to 60°C (140°F) CFC-free refrigeration
- Net weight: 450 lb. (204kg)

ORDERING INFORMATION:
Dimensions, Platform: 30W × 18"H (76 × 46cm);
Chamber: 33.5D × 23W × 19"H (85 × 58 × 48cm);
Overall: 50 × 30.5 × 41.75"H (127 × 77 × 85cm); For 120V 60Hz; Accessory platforms, trays and racks sold separately.

REQUIRES: Platform or tray (sold separately)

WARRANTY: Two years on parts and labor

CERTIFICATIONS: UL listed. CSA approved. CE marked.

Model	Mfr. No.	Cat. No.	Each
E25, Incubating	M1353 0000	**14-285-734**	11,886.00
E25R, Refrigerated	M1353 0004	**14-285-735**	14,227.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Reciprocating

Fisher Scientific™ Multi-Platform Shakers

Easy-to-use, microprocessor-controlled

This multi-platform shaker provides a smooth, quiet horizontal orbital motion for mixing in bottles, flasks and beakers.

13687700

- Variable shaking speed: 50 to 450rpm
- Holds up to 8.8lbs
- Automatic load balancing system
- Continuous or timed operation with automatic switch-off
- Maximum flexibility with an option of four interchangeable platforms
- Simple set up and easy to operate
- Low voltage power supply provides for safe cold room operation and low energy consumption
- Operating temperature range of 4° to 40°C allows for use in cold rooms or incubators

Specifications & Ordering Information:

Platform is not included and must be ordered separately:
Universal platform with adjustable bars (Cat. No. 13-687-710), Platform with non-slip rubber mat (Cat. No. 13-687-701), Platform w/clamps for 6 x 250mL flasks/150mL beakers (13-687-702), Platform w/clamps for 12 x 100mL flasks/150mL beakers (13-687-703)

APPLICATIONS:

- Biomedical or biopharmaceutical labs
- Cultivations of cells
- Extracting
- Dissolving slow reacting samples
- Tissue culture of analytical diagnostics
- Rotating closed containers for dialysis
- Bacterial growth

Specifications	
Speed	50 to 450rpm
Orbit	1cm
Maximum load	8.8 lb.
Timer, with automatic switch-off	1 min. to 96 hours
Display	2 x 16 character LCD
Input voltage	12V DC
Input current	1.0A
Ambient temperature range	4° to 40°C

Description	Cat. No.	Each
Multi-Platform Shaker	**13-687-700**	1350.00

Heidolph Titramax Vibrating Platform Shaker Package

Platform shaker package featuring Heidolph Titramax 1000

13-787-477

- Package includes:
- One Titramax 1000 vibrating platform shaker
- One heating module
- One flat incubator hood

Description	Mfr. No.	Cat. No.	Each
Titramax Vibrating Platform Shaker Package	036130500	**13-787-477**	4920.00

Heidolph Titramax Vibrating Platform Shakers

Platform lab shaker with vibrating motion accepts load capacities of 2 or 5kg

13-889-420

Titramax 100 — The compact model

- Insulated system to prevent any heat transfer from the motor that could cause potential thermal damage to your sample
- 1.5 mm vibration orbit performs gentle mixing with best results using small sample volumes
- Set and continuously adjust the variable speed on the analog control knob from 150 to 1,350rpm
- Compact and space saving unit that accepts load capacities of 2kg and space for 4 microtiter plates
- Analog process timer allows for unattended operation and can be set from 1 to 120 minutes
- Acoustic alarm will sound and the operation stops when the set time has elapsed

Titramax 101 — The strong model

- Same features as Titramax 100 plus:
- 3mm vibration orbit which was designed for larger sample volumes

Titramax 1000 — The incubating model

- Same features as Titramax 100 plus:
- Use of 6 microtiter plates increases throughput by 50%
- 1.5mm vibration orbit performs gentle mixing with best results using small sample volumes
- Medium-sized model and accepts load capacities of 5kg
- Model is suitable for the modular incubator system and is recommended for applications which require variable temperature control of up to 65°C

ORDERING INFORMATION: Accessories and 220V options available

Description	Platform Size	Max. Load	Orbit	Mfr. No.	Cat. No.	Each
Titramax 100	220 × 220mm	2kg	1.5mm	036130060	**13-889-870**	1740.00
Titramax 101	220 × 220mm	2kg	3mm	036130080	**13-889-871**	1740.00
Titramax 1000	290 × 258mm	5kg	1.5mm	036130100	**13-889-420**	2140.00

Heidolph Reax Vortex Mixer

Ideal for mixing samples in tubes, vials and similar vessels of different diameters at extremely high speed rates

- Strong 5mm vibrating orbit
- Operating modes: Continuous and Automatic
- Rotation Speed: 0 to 2500rpm
- Analog dial speed control, no setings of specified rpm
- Plate for 20mm diameter test tubes is included as standard
- Test tube tray for flasks up to 50mm diameter are optionally available in accessory section
- Voltage: 115V (220V upon request)
- Input Power: 51w
- Dimensions: 134 × 105 × 172mm (W × H × D)
- Overheat Protection: Self resetting

13-889-310

- Permissible ambient temp: 5-40°C at 85% rel. humidity
- Protection Class: IP 22

ORDERING INFORMATION:
Accessories and 220V options available

WARRANTY:
3-Year

Model	Orbit	Rotation Speed Setting	Range	Mfr. No.	Cat. No.	Each
Reax Top	5mm	Analog	Up to 2500rpm	036130000	**13-889-310**	349.00
Reax Control	5mm	Electronic Control	Up to 2500rpm	036130020	**13-878-452**	794.00
Multi Reax	3mm	Digital	150 to 2000rpm	036130040	**13-889-410**	2550.00

Heidolph Vibramax Vibrating Platform Shakers

Platform lab shaker with vibrating motion accepts load capacities of 2kg

Vibramax 100 — The compact model

- Compact and space saving unit with a load capacity of 2kg
- 3mm vibrations orbit gives excellent results especially in large vessels – allows for smooth ridged mixing of viscous media and solids
- Set and continuously adjust the variable speed on the analog control knob from 150 to 1350rpm
- Optional attachment with tension rollers accepts any glassware size
- Large selection of attachments is provided for the use of various vessels and sizes
- Analog process timer allows for unattended operations and can be set from 1 to 120 minutes
- Acoustic alarm will sound and the operations with stop when time has elapsed

13-878-453

Vibramax 110 — The efficient model

- Includes all Vibramax 100 features, plus:
- Ideal for optional attachment to use 49 test tubes that increases your throughput
- Vibrations orbit of 1.5mm performs a gentle motion for sensitive samples
- Set and continuously adjust the variable speed on the analog control know from 150 to 2500rpm

ORDERING INFORMATION:
Accessories and 220V options available

Specifications	
Rotation Speed	150 to 2500rpm
Orbit	1.5mm
Operating mode	Timer or continuous
Input Power	46w
Weight	5.0kg
Platform Size	14 x 14cm
Dimensions (W × H × D)	9.6 × 5.7 × 12.2 in. (24.5 × 14.6 × 31cm)
Load Capacity	2kg
Permissible Ambient Temp.	0 to 50°C at 80% relative humidity
Supply Voltage	115V/60Hz
Timer Range	1 to 120 minutes

Model	Platform Size	Orbit	Speed Range	Mfr. No.	Cat. No.	Each
Vibramax 100	220 × 220mm	3mm	150 to 1350rpm	036130120	**13-878-453**	1750.17
Vibramax 110	140 × 140mm	1.5mm	150 to 2500rpm	036130140	**13-878-454**	1763.76

Heidolph Rotamax Orbital Platform Shaker

Compact and space saving personal orbital shaker

- Rotamax 120 can accept up to 2kg load capacity and has 20mm orbit
- Includes analog count-down process timer with alarm to signal completion of timed shaking procedure; enables unattended operation
- Analog control speed of 20-300rpm and comes with Heidolph's textured non-slip platform mat to ensure samples stay secure
- Accommodates 4 culture plates or 4 micro-titer plates for common lab applications

13-878-521

Mfr. No.	Cat. No.	Each
036130160	**13 878 521**	2030.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Heidolph Promax Reciprocating Platform Shakers

Platform shaker with reciprocating motion accepts load capacities of 5 or 10kg

Promax 1020 — The incubating model

- Medium-sized model and accepts load capacities of 5kg
- Wide range of accessories, attachments and clamps for separatory funnels available
- With a stoke length of 32mm the Promax model performs an ideal motion for separatory funnels
- Set and continuously adjust the variable speed on the digital display from 30 to 250rpm
- Suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C
- Digital process timer allows for unattended operation and can be set from 1 to 999 minutes
- Acoustic alarm will sound and the operation will stop when timing is completed

Promax 2020 — The resilient model

- Includes all Promax 1020 features, plus:
- Large model and accepts a load capacity of 10 kg for high sample throughput
- With a stroke length of 20 mm this Promax model can mix larger volumes with ease

13-878-456

- Set and continuously adjust the variable speed on the digital display from 20 to 400rpm — ideal for separations
- Analog process timer allows for unattended operation and can be set from 1 to 120 minutes
- Acoustic alarms will sound and the operation stops when timing is completed

ORDERING INFORMATION:
Accessories and 220V options available

Model	Platform Size	Max.Load	Stroke Length	Speed Range	Timer Range	Mfr. No.	Cat. No.	Each
Promax 1020	290 x 258mm	5kg	32mm	30 to 250rpm	1 to 99 min.	036130220	**13-878-456**	2860.00
Promax 2020	390 x 340mm	10kg	20mm	20 to 400rpm	1 to 120 min.	036130240	**13-878-457**	4440.00

Rotating

Fisher Scientific™ Mini-Tube Rotators

For gentler agitation of samples in laboratory

- Variable speed with LCD display
- With small footprint
- Interchangeable carousels for all common laboratory tubes
- Cold room and incubator compatible
- Provides complete 360° rotation
- Adjustable 0° to 90° mixing angle
- AC Adapter marked with UL/CSA and CE markings

WARRANTY:
2 year

Specifications	
Tube Capacity	36 — 1.5/2.0mL tubes, 10— 13/10mL tubes, 16 — 5/7mL tubes, 6 — 60mL tubes
Load Capacity	1.75 lb.
Speed	4–18 RPM Variable
Mixing Angle	Adjustable 0° to 90°
Power Requirements	12V DC via 100-240V AC adapter
Dimensions (D × W × H)	5 × 9 × 6" (12.7 × 22.86 × 15.24cm)
Weight	4.5 lb.
Agency Approvals	AC adapter is UL, CSA and CE approved

05-450-127

Description	Mfr. No.	Cat. No.	Price
Mini-Tube Rotator	260750F	**05-450-127**	437.00

Fisher Scientific™ Tube Rotator

Versatile, robust rotator is suitable for most mixing needs

- Digital microprocessor control
- Five carousel options
- Adjustable speed provides gentle or vigorous mixing action
- Adjustable angled head offers mixing angles from 90 to 180°
- Timer features both time up and time down counting modes
- This is dual voltage unit; 19.4v dc, 474A via 100/240v AC adapter

Specifications	
Speed Range	4 to 8rpm
Carousel Angle	90 to 180°
Timer	Up to 99 hours and 59 minutes
Carousel Capacity	(46) 9-11mm tubes; (28) 14-18mm tubes; (14) 27-34mm tubes; (63) 18.5mm culture tubes (drum carousel) and (63) 14mm culture tubes (drum carousel)

INCLUDES:
50mL tube carousel

WARRANTY:
Two years

CERTIFICATIONS:
UL, CSA, CE approved
Power pack

05-450-200

Description	Cat. No.	Each
Tube Rotator, includes 50mL tube carousel; 120V 50/60Hz	**05-450-200**	1093.97

Fisher Scientific Wave Action Rotator

Creates gentle or vigorous agitation

Heavy-duty rotator moves in a three-dimensional orbital wave motion. Unit creates gentle or vigorous agitation that makes it suitable for a wide variety of applications. Comes supplied with a nonskid rubber mat so you can position your vessels with confidence. Adjusting the tray angle is simplified with a single set screw adjustment that allows you to adjust your tray angle from 0° to 12° in seconds.

05-450-211

- Quiet operation
- Easy-to-adjust speed control with optimized low-speed operation
- Easy-to-adjust tilt angle with a single set screw adjustment
- Two-year manufacturer's warranty
- Unit is UL-/CSA-approved and CE-marked

Specifications

- Motion: three-dimensional orbital wave
- Speed: variable, 5 to 120rpm
- Tilt angle: adjustable, 0° to 12°
- Load capacity: 20 lb.
- Power: available in 115V or 230V
- Overall dimensions: 14 × 13 × 11" (35.6 × 33 × 27.9cm)

WARRANTY:
2 years

COMPLIANCE:
UL/CSA approved, CE marked (230V)

Description	Cat. No.	Each
Wave Motion Shaker, 115V	**05-450-211**	1943.95
Wave Motion Shaker, 230V	**05-450-212**	2041.14

Fisher Scientific™ 3D Platform Rotators

Variable speed, fixed-angle 3D rotators

These fixed-angle rotators provide smooth orbital motion for mixing in culture flasks, dishes, boxes and tubes.

13-687-705

- Simple speed adjustment from 10 to 30rpm
- Gentle movement ideal for staining gels without destroying the edges or keeping fragile tissue intact during incubation
- Large platform accommodates most commonly used vessels with non-slip mat that prevents slipping
- Low voltage power supply provides safe cold room operation and low energy consumption
- Operating temperature range of 4° to 40°C allows for use in cold rooms or incubators

Specifications	
Speed	10 to 30rpm
Tilt angle	7°
Operating temperature range	4° to 40°C
Platform dimensions (working area) (D × W)	8.19 × 8.19"
Maximum load	1.1 lb.
Input voltage	12V DC
Input current	0.5A

Description	Cat. No.	Each
Fixed-Tilt Platform Rotator	**13-687-705**	655.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ Multi-Function 3D Rotators

Variable speed, fixed-angle, multi-function 3D rotators fully optimize the mixing of different sized particles

3D rotation, reciprocation and vibration functions allow for continuous operation, timed operation or different combinations to ensure optimal mixing conditions for any application.

13-687-707

- Rotation speed: 5 to 30rpm for long wave motion
- Reciprocal rotation: 1° to 360° turning angle for long and medium way motion
- Vibration: 1° to 6° turning angle, programmable in bursts of 1 to 5 seconds, for short wave motion
- Fits neatly into small workspaces
- Operating temperature range of 4° to 40°C allows for use in cold rooms or incubators

APPLICATIONS:

- Immuno precipitations
- Affinity matrix
- Trypsinization
- Gel straining and distaining
- Antibody staining
- Washes
- Hybridizations
- Southern blots
- Western blots
- In stitus

Specifications	
Speed	5 to 30rpm
Turning angle (reciprocal mode)	1 to 360°
Turning angle (vibration mode)	1 to 5°
Tilt angle	7°
Orbit diameter	0.9 in.
Timer (orbital/360° vertical or reciprocal mode)	1 to 250 sec.
Timer (vibration mode)	1 to 5 sec.
Number of cycles	1 to 125
Operating temperature range	4° to 40°C
Platform dimensions (working area) (D × W)	8.19 × 8.19"
Maximum load	1.1 lb.
Display	2 × 16 character LCD
Input voltage	12V DC
Input current	0.5A

Description	Cat. No.	Each
Multi-Function 3D Rotator	**13-687-707**	1232.00

Fisher Scientific™ Wrist Motion Shaker

Ideal for shaker and suspension cell culture, media preparation and storage

05-450-120

- Adjustable 0-15° mixing angle
- Continuous or timed operation 0-60 min.
- Adjustable side arm clamps can accommodate up to 8 flasks (500mL or smaller)
- Load capacity of up to 10 lbs. with overload protection
- Cold room compatible (4-25°C)
- UL, CSA, and CE approved
- Fixed-speed Shaker
- 400 oscillations per minute
- Variable-speed Shaker
- 0-450 oscillations per minute

WARRANTY:
2 year

CERTIFICATIONS:
UL listedCE marked

Specifications	
Capacity	8 — 500mL or smaller flasks. Clamps to accomodate 1/4" to 2" diameter tubes/vessels
Load Capacity	4.5 kg (10 lbs.)
Mixing Angle	Adjustable 0–15°
Dimensions (W × D × H)	13.5 × 15.25× 12.5cm (W × D× H) (5.3 × 6 × 4.9 in.)
Agency Approvals	UL, CSA and CE

Description	Weight	Cat. No.	Each
Fixed-speed; 120V, 60Hz	24.94kg (55 lbs)	**05-450-120**	2340.00
Fixed-speed; 230V, 50 Hz	24.94kg (55 lbs)	**05-450-121**	2460.00
Variable-speed; 120V, 60Hz	34kg (75 lbs)	**05-450-122**	3050.00
Variable-speed; 230V, 50Hz	34kg (75 lbs)	**05-450-123**	3200.00

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Fisher Scientific™ Tissue Culture Rotator

Single-drum unit gently rotates up to 142 samples

14-251-250

Designed for growing tissue and virus cultures, hormone production, sample testing for the presence of viruses, and cytotoxicity assays.

- Variable rotation from 5 to 70rpm
- Elevation angle is adjustable from 5° above horizontal to 90°
- Drum can be lifted off roller without interrupting operation
- POWER-ON pilot light
- Can be used in standard incubators under controlled temperature conditions up to 40°C and humidity conditions from 20 to 80% noncondensing
- Powder-coated stainless-steel outer body is rugged and corrosion-resistant
- Long-life maintenance-free, brushless motor

ORDERING INFORMATION:
Order rotator body (14-251-250) and one drum for complete system. Dimensions (rotator body): 15D × 14W × 22.5"H (38 × 36 × 57cm). Unit weight (without roller): 19 lb. (9kg). All drums are 14" dia. (36cm) and weigh 5 lb. (2kg).

REQUIRES:
Tissue Culture Drum (order separately)

WARRANTY:
24 months

Description	Capacity	Electrical Reqts.	Cat. No.	Each
Single Drum Tissue Culture Rotator	----	120V 60Hz, 60w, 0.5A	**14-251-250**	2410.00
Tissue Culture Drum	60 × 30mm tubes	----	**14-251-253**	648.00
Tissue Culture Drum	76 × 26mm tubes	----	**14-251-252**	291.57
Tissue Culture Drum	142 × 17mm tubes	----	**14-251-251**	649.50

Thermo Scientific™ Small Bidirectional Rotator

Gentle rocking motion meets the requirements of a rotator for serological tests and other applications

14-271-8Q

Rotator is used for staining and destaining gels, hybridizations, Western blotting, and mixing of small tubes, blood samples and microwell plates.

- Bidirectional rocking angle through 360° rotation
- Mechanical timer acts as ON/OFF switch
- White nonslip rubber mat platform holds two microwell plates, Vacutainer™ containers, slides, Petri dishes or tissue culture flasks
- Powder-coated steel body with four nonskid rubber feet
- Small footprint conserves bench space

INCLUDES:
3-wire cord and plug

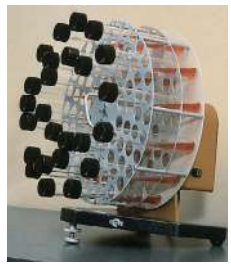
CERTIFICATIONS:
CE marked

Specifications	
Speed Range	30rpm
Angle	10° through a 360° rotation
Timer	Up to 60 min. or continous
Operating Humdity Range	20 to 80% noncondensing
Operating Temperature Range	4° to 40°C (39.2° to 104°F)
Platform L × W	17 × 13cm (6.75 × 5")
Platform Load Capacity	1.4kg (3 lb.)
Exterior L × W × H	21 × 17 × 14cm (8.3 × 6.9 × 5.5")
Shipping Weight	11kg (25 lb.)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 60w, 0.3A	4630Q	**14-271-8Q**	715.50

New Brunswick Cell Culture Roller Drums

For growing bacteria and tissue cultures in test tubes to achieve even distribution of media over cells



14-277-2

- Variable-speed drive with solid-state controller provides uniform rotary motion, maintains constant speed even with heavy loads.
- Two models, with speed ranges of 0.2 to 3.5rpm and 6 to 56rpm

ORDERING INFORMATION:
Overall dimensions: 14D × 14.75W × 16.5"H (35.6 × 37.5 × 41.9cm); for 120V 50/60Hz

REQUIRES:
Drums (sold separately); 14-277-4 for 16mm tubes, 14-277-5 for 25mm tubes

Speed	Mfr. No.	Cat. No.	Each
6–56rpm	M1053 4004	**14-277-2**	2293.22

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Prices subject to change.

Thermo Scientific™ Large Bidirectional Rotators

Provide reliable long-term performance

- Stainless-steel platform accommodates two Pyrex™ dishes
- Variable rotation solid-state speed control
- 3-dimensional horizontal and vertical orbit rotation through a 6° angle
- Lightweight for easy mobility
- Durable cold-rolled steel body with baked enamel finish
- White, neoprene rubber mat provides a non-skid surface and easy sample viewing

INCLUDES:
Three-wire line cord and plug

CERTIFICATIONS:
CE listed (240V model)

14-512-28Q

Specifications	
Speed Range	0 to 25rpm
Orbit	6° angle through a 360° rotation
Operating Humidity Range	20 to 80% noncondensing
Operating Temperature Range	4° to 40°C (39.2° to 104°F)
Platform L × W	35.6 × 40.6cm (14 × 16")
Platform Load Capacity	1.8kg (4 lb.)
Exterior L × W × H	36 × 41 × 19cm (14 × 16 × 7.5")
Shipping Weight	11kg (25 lb.)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz, 0.4A	4631Q	**14-512-28Q**	1476.00
240V 50/60Hz, 0.2A	4631-1CEQ	**14-512-29Q**	1475.83

Thermo Scientific™ Labquake™ Rotisserie Hybridization Rotators

Used for room temperature hybridization

- Tridirectional rotation assures optimal distribution of a minimal amount of probe solution
- Compact, portable rotisseries hold 50mL conical tubes or 38 × 150mm (1.4 × 5.9") or 300mm (11.8") hybridization bottles, depending on model
- Bottles are easy to place and remove
- Motor can run when loading or removing

APPLICATIONS:

- Hybridizations
- Western, Southern and Northern blots
- Incubation of cells adhered to beads
- Room-temperature hybridizations

ORDERING INFORMATION:
Bottles and tubes must be purchased separately.

CERTIFICATIONS:
120V model is CSA approved; 240V model is CE marked

13-687-64Q, 13-687-69Q

Specifications	
Speed	8rpm
Operating Temperature Range	0° to 65°C (32° to 149°F)
Operating Humidity Range	20 to 80% noncondensing

Capacity	Exterior L × W × H	Shipping Weight	Electrical Requirements	Mfr. No.	Cat. No.	Each
Four 38 × 300mm bottles/8 × 50mL conical tubes	4.5 × 18.5 × 6.6" (11.4 × 47 × 16.8cm)	4.5 lb. (2.0kg)	120V 50/60Hz	M107625Q	**13-687-64Q**	610.00
Four 38 × 150mm bottles/4 × 50mL conical tubes	4.5 × 10.5 × 6.5" (11.4 × 26.7 × 16.5cm)	2 lb. (0.9kg)	120V 50/60Hz	M90615Q	**13-687-69Q**	557.50

Thermo Scientific™ Lab Rotators

Versatile, variable speed control allows gentle or vigorous agitation

The Lab Rotator is ideal for rotation of flasks, test tube racks, beakers, vials, Petri dishes, microwell plates, culture plates, plastic/glass trays, and slides in microbiological, immunological and general clinical applications.

11-671-50Q, 11-671-51Q, 11-671-52Q, 11-671-53Q

- Two platform sizes available
- Continuous-duty motor provides smooth, quiet orbit
- Timer makes it easy to perform time studies; set for continuous or timed
- Autoclavable white silicone non-slip platform mat cleans easily
- Variable speed control for gentle or vigorous agitation

INCLUDES: White silicone nonslip platform

WARRANTY: One year parts, 90 days labor

CERTIFICATIONS: CE listed (240V models only) and UL listed (120V models only)

Specifications	
Speed Range	40 to 220rpm
Orbit	1.9cm (0.75")
Timer	1 to 60 min. or continuous
Operating Humidity Range	20 to 80% noncondensing
Operating Temperature Range	4° to 40°C (39.2° to 104°F)
Platform Load Capacity	4.5kg (10 lb.)
Electrical Requirements	240V 50/60Hz, 50w, 0.2A
Shipping Weight	7.3kg (16 lb.)

Overall L × W × H	Electrical Requirements	Mfr. No.	Cat. No.	Each
Platform: 9 × 9" (23 × 23cm)				
12.38 × 10.62 × 4.4"	120V 50/60Hz, 50w, 0.4A	2309Q	**11-671-50Q**	1226.21
(31 × 27 × 11cm)	240V 50/60Hz, 50w, 0.2A	2309-1CEQ	**11-671-51Q**	1168.00
Platform: 12 × 12" (30 × 30cm)				
13.62 × 12.5 × 4.38"	120V 50/60Hz, 50w, 0.4A	2314Q	**11-671-52Q**	1239.00
(35 × 32 × 11cm)	240V 50/60Hz, 50w, 0.2A	2314-1CEQ	**11-671-53Q**	1238.00

Boekel™ Orbitron Rotators

For use where gentle, low-foaming agitation and uniform mixing of lab samples are required

11-715-12, 11-715-11

Compact, with 1 sq. ft. (0.09m²) platform and smaller footprint.

Model I

- Approximately 20 orbits/min. fixed speed
- 23° angle fixed tilt

Model II

- Variable speed adjustable from approximately 6 to 23 orbits/min.
- Tilt angle adjusts from 0° to 23°

APPLICATIONS:
Immunoassays, hybridizations, mixing blood samples, coupling affinity chromatography media and DNA extractions

ORDERING INFORMATION:
Dimensions: 7L × 7½W × 5"H (17.8 × 19 × 12.7cm); with platform, 12L × 12W × 10"H (30.5 × 30.5 × 25.4cm)

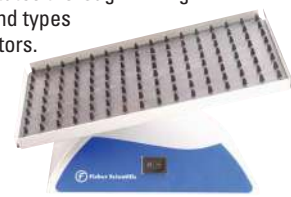
Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Orbitron I Fixed Speed/ Angle Orbital Rotator	115VAC, 22w	260200	**11-715-11**	814.50
Orbitron II Fixed Speed/ Angle Orbital Rotator	115VAC, 22w	260250	**11-715-12**	1265.00

Rocking

Fisher Scientific™ Nutating Mixers

Delivers gentle, low-foam action for uniform mixing of fluids in small collection tubes to larger centrifuge tubes

Three-dimensional rotating motion facilitates thorough mixing. Accommodates a variety of tube sizes and types and can be used in coldrooms or incubators.



22-363-152

Fixed Speed Model

- Compact; fits on any flat surface or benchtop
- Fixed-speed movement at 20° angle
- Operating range: 4° to 40°C
- Load capacity: 1.75 lb. (0.8kg)
- Tubes can be placed on dimpled rubber mat without additional strapping
- Mat is removable and cleans with soap and water
- Maintenance-free
- Very quiet

Variable Speed Model

- Variable speed from 4-24rpm offers gentle continuous mixing of samples
- Low-profile, compact design enables placement at every workstation 9 × 5" platform accommodates a variety of tubes and vessels
- Operating range up to 45°C
- Load capacity: 1.8 lb. (0.82kg)
- Quiet operation

WARRANTY: One year

NOTES: Be sure platform load is balanced before activating unit. Allow adequate clearance to allow tray to move freely through motion.

Electrical Requirements	Speed	Cat. No.	Each
Fixed Speed Model			
115V 60Hz, 0.2A	24rpm	**22-363-152**	584.17
230V 50Hz, 0.1A	20rpm	**22-363-153**	584.12
Variable Speed Model			
115V 60Hz	4-24rpm	**05-450-213**	594.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ Platform Rockers

Compact, highly functional fixed-angle rockers

These compact, highly functional fixed-angle rockers provide smooth rocking action for gentle sample agitation.

13-687-704

- Ideal for tubes, culture flasks, dishes and boxes
- Simple graduated speed setting from 7.5 to 30rpm
- Continuous or timed operation with automatic switch-off, ensures accurate countdown for repeatability of time sensitive incubations
- Large easy-to-read LED display
- Fits neatly into the smallest workspace
- Smooth, non-slip mat prevents vessels from slipping
- Operating temperature range of 4° to 40°C allows for use in cold rooms or incubators

APPLICATIONS:

- Gel staining/distaining
- Washes
- Antibody straining
- Hybridizations
- Immuno precipitations
- Southern blots
- Western blots
- In situs

Specifications	
Speed	7.5 to 30rpm
Tilt angle	7°
Operating temperature range	4° to 40°C
Timer, with automatic shut-off	1 min. to 24 hours
Platform dimensions (working area) (D × W)	8.19 × 8.19"
Maximum load	1.1 lb.
Display	4 digit LED
Input voltage	12V DC
Input current	0.5A

Description	Cat. No.	Each
Fixed-Tilt Platform Rocker	**13-687-704**	927.50

Thermo Scientific™ Thermal Rocker™ Incubators

Ideal for blood procedures, cell cultures, hybridizations and Southern and Northern blotting techniques

Provide smooth, gentle adjustable rocking from 0 to 100 cycles/min. to meet a variety of mixing needs.

14-512-30Q

- Front-mounted switch allows operation with or without heat
- Temperature is monitored via the large LED display Electronic proportional temperature controller maintains temperatures Automatic resetting thermal cutoff shuts down power to the heaters in the event of an overtemperature condition
- Platform features a nonskid rubber pad to keep samples in place
- Angle of motion is easily adjusted

INCLUDES: 3-wire line cord and plug

CERTIFICATIONS:
120V model is cCSAus approved; 240V model is CE marked

Specifications	
Speed Range	0 to 100 cycles/min.
Rocking Angle	10° to 15°
Temperature Control	Electronic Proportional
Temperature Range	Ambient ±5° to 70°C
Temperature Accuracy	±0.5°C
Display	LED temperature display, analog speed display, rotary dial
Platform L × W	36 × 36cm (14.19 × 14.19")
Load Capacity	4.5kg (10 lb.)
Exterior L × W × H with cover	41 × 42 × 34.7cm (16 × 16.5 × 13.5")
Shipping Weight	11kg (25 lb.)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 50/60Hz (3.3A)	4637Q	**14-512-30Q**	2890.00
240V 50/60Hz (1.7A)	4637-1CEQ	**14-041-22Q**	2860.55

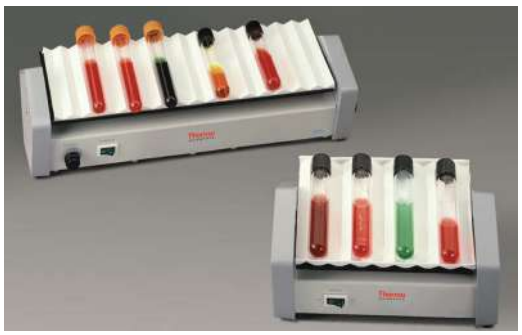
Thermo Scientific™ Vari-Mix™ and Speci-Mix™ Test Tube Rockers

Offer a choice of fixed- or adjustable-angle models

- Choose from fixed or adjustable speeds
- Reversible pad provides one side (with lip to prevent sliding) for capped tubes 110mm (4.33") long; other side for longer tubes
- Autoclavable white silicone rubber pad enhances viewing
- Can be used in a noncondensing incubator or coldroom with ambient operating conditions of 4° to 40°C (39.2° to 104°F) and 20 to 80% RH noncondensing

INCLUDES:
A white silicone rubber friction grip pad for holding tubes in place

CERTIFICATIONS:
CE listed (240V models only)



12-815-3Q

Specifications	
Operating Humidity Conditions	20 to 80% noncondensing
Operating Temperature Range	4° to 40°C (39.2° to 104°F)

Description	Mfr. No.	Cat. No.	Each
Vari-Mix Test Tube Rocker	M48725Q	**12-815-3Q**	911.50
Speci-Mix Test Tube Rocker	M71015Q	**12-815-6Q**	508.50

Boekel™ Rocker II Platform Rocker

Designed for gel staining and destaining; Northern, Southern and Western blots; and rocking agglutination cards

- Adjustable speed: 3 to 25rpm
- Tilt angle: 0° to 20° (40° total displacement)
- Anodized aluminum platform comes with white rubber nonskid pad
- L x W x H: 12 × 12 × 7" (30.5 × 30.5 × 17.8cm)
- Tray clearance: 2.5" (6.3cm)

05-450-34

ORDERING INFORMATION: For 115V 50/60Hz

Description	Mfr. No.	Cat. No.	Each
Model 260350 Rocker II	260350	**05-450-34**	888.00

IBI Scientific Belly Button™ Shaker and Lab Start-Up Kit

Compact liquid agitation shaker can be used in incubators, refrigerators, and on a crowded benchtop

Provides a wide range of agitation conditions from extremely gentle to vigorous. Uses an orbiting platform, flexibly anchored at four corners to create a motion that is an extremely effective combination of rocking platform mixer and orbital shaker.

15-453-260

- 7 × 7" (18 × 18cm) acrylic, open-sided platform
- 1" (2.5cm) orbital throw
- Adjustable speed controls from 0 to 100rpm
- Variable pitch control from flat to 8° 5 lb. (2.25kg) load capacity
- Brushless, long-lived, 12V motor runs quietly
- Chemical-resistant stainless-steel and anodized aluminum housing with powder-coated finish
- Removable, nonskid mat stabilizes loads while processing
- Operates in ambient temperatures of 0° to 60°C
- Can be used in CO^2, high humidity, or dry incubators
- Belly Button Shaker Lab Start-Up: Includes a Belly Button Shaker and an accessory finger mat (7 × 7") to hold small tubes.

APPLICATIONS:
Staining and destaining gels, Northern and Southern hybridizations, Western blotting, rinsing membranes, cell culture incubation, retroviral infection, phage elution, amplification of cDNA libraries, mixing of small tubes and blood samples, and immunocytochemistry.

ORDERING INFORMATION:
Overall dimensions: 8L × 8W × 4.75"H (20 × 20 × 12cm);
For 100/240V 50/60Hz

CERTIFICATIONS:
CE marked Belly Button shaker (BBUAAUV1S)

Description	Mfr. No.	Cat. No.	Each
Belly Button Shaker, 100/240V 50/60Hz	BBUAAUV1S	**15-453-260**	1579.00

IBI Scientific Hi/Lo Profile Rocker™ and Lab Start-Up Kits

With height of only 3.75", ideal for confined spaces and sterile environments

Use in staining and destaining gels, Northern and Southern hybridizations, Western blotting and rinsing membranes, radiolabeling cells in incubators, and Lambda Phage elution/ amplification of cDNA libraries.

15-453-219

Unique platform design

- With motor beside rather than under the platform, rocker easily fits on incubator or refrigerator shelves
- Includes 12 × 12" (31 × 31cm) high-quality stainless-steel platform, with capacity to add up to three additional platforms (4.5" between platforms) for increased capacity
- Nonskid, removable mat stabilizes load while processing

Optimum rocking performance

- Adjustable platform pitch (from 2° to 11°) and speed (0 to 30rpm) in seconds without tools
- Generates a wide range of agitation conditions from extremely gentle to vigorous. Same degree of agitation is maintained on all stacked platforms

Sturdy construction

- Stainless-steel unit resists rust, even in 95% humidity
- 24V permanent magnet DC motor
- Can be used in both incubators and refrigerators
- Easily disassembled, unit (all but motor and control) can be sterilized by autoclaving
- Load capacity: 20 lb. (9kg)
- Ambient temperature operation from 0° to 60°C (32° to 140°F)
- Includes additional platforms which are fully integrated into the rocker's base footprint, thereby increasing valuable benchtop space.

ORDERING INFORMATION:
Overall dimensions: 15.75L × 13.75W × 1.75"H (40 × 35 × 5cm).
Additional platforms sold separately.

Description	Mfr. No.	Cat. No.	Each
Hi/Lo Profile Rocker	ROCAA115S	**15-453-219**	1535.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Heidolph Unimax Orbital Platform Shakers

Platform lab shaker with orbital motion accepts load capacities of 5 or 10kg

13-889-421

Unimax 1010 — Incubating model

- Medium sized model; accepts load capacities of 5kg
- Shaking orbit of 10mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and continuously adjust the variable speed on the digital display from 30 to 500rpm
- Suitable for the modular incubator system and is recommended for application which require variable temperature control up to 65°C
- Digital process timer allows for unattended operation and can be set from 1 to 999 minutes
- Acoustic alarm will sound and the operation stops when timing is completed

Unimax 2010 — Resilient model

- Includes all Unimax 1010 features, plus:
- Large model and accepts a load capacity of 10kg for high sample throughput
- Shaking orbit of 20mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and continuously adjust the variable speed on the digital display from 20 to 400rpm
- Increase your sample throughput with the optional multi-tier attachment for a variety of vessel sizes
- Analog process tier allows for unattended operations and can be set from 1 to 120 minutes
- Acoustic alarm will sound and the operation stops when timing is completed

ORDERING INFORMATION:
Accessories and 220V options available

Model	Platform Size	Max. Load	Orbit	Speed Range	Timer Range	Mfr. No.	Cat. No.	Each
Unimax 1010	290 x 258mm	5kg	1cm	30 to 500rpm	1 to 99 min.	036130180	**13-889-421**	2930.00
Unimax 2010	390 x 340mm	10kg	2cm	20 to 400rpm	1 to 120 min.	036130200	**13-878-455**	4131.82

Heidolph Duomax Rocking Orbit Platform Shaker

Platform lab shaker with rocking motion accepts load capacities of 5kg

13-878-475

Duomax 1030 — Incubating model

- Medium-sized model and accepts load capacities of 5kg
- Choose your angle between these two options: tilt angle of 50 for soft and gentle movements of tilt angle of 100 for a much stronger motion
- Set and continuously adjust the variable speed on the analog control knob from 2 to 50rpm — ideal for media bottles
- Suitable for the modular incubator system and is recommended for applications which require variable temperature settings
- Analog process timer allows for unattended operation and can be set from 1 to 120 minutes
- Acoustic alarm will sound and operation stops when time has elapsed
- 290 × 258mm platform size

ORDERING INFORMATION:
Accessories and 220V options available

Model	Angle	Mfr. No.	Cat. No.	Each
Duomax 1030	5°angle	036130260	**13-878-475**	2700.00
Duomax 1030	10°angle	036130280	**13-878-459**	2700.00

Fisher Scientific movingon Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location.
Visit **www.fishersci.com/movingon** to learn more.

Heidolph Polymax Wave Motion Platform Shakers

Platform lab shaker with wave motion accepts load capacities of 5 or 10kg

Polymax 1040 — Incubating model

- Medium-sized model and accepts load capacities of 5kg
- Choose angle between these two options: tilt angle of 50 for soft and gentle movements or tilt angle of 100 for a much stronger motion
- Use this model for any vessel — from culture plates and media bottles to Erlenmeyer flasks — there is no limit
- Set and continuously adjust the variable speed on the analog control knob from 2 to 50rpm- ideal for cell culture plates
- Suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C
- Analog process timer allows for unattended operations and can be set for 1 to 120 minutes
- Acoustic alarm will sound and the operation stops when timing is completed

13-878-460

Polymax 2040 — Resilient model

- Includes all Polymax 1040 features, plus:
- Large model that accepts a load capacity of 10kg for high sample throughput
- Set and continuously adjust the variable speed on the digital display for 2.5-50rpm - ideal for cell culture plates
- Analog process timer allows for unattended operation and can set for 1 to 120 minutes
- Acoustic alarm will sound and the operation stops when timing is completed

ORDERING INFORMATION: Accessories and 220V options available.

Model	Angle	Platform Size	Max. Load	Mfr. No.	Cat. No.	Each
Polymax 1040	5°	290 × 258mm	5kg	036130300	**13-878-460**	2729.80
Polymax 1040	10°	290 × 258mm	5kg	036130320	**13-878-461**	2770.00
Polymax 2040	5°	390 × 340mm	10kg	036130340	**13-878-462**	4440.00
Polymax 2040	10°	390 × 340mm	10kg	036130360	**13-878-463**	4370.19

Heidolph Reax Overhead Shakers

Overhead motion shakers

Reax 2

- Holds 2 bottles
- Rotation speed that is adjustable from 20 to 100 rpm; rotation speed setting is analog
- Quickly clamps in 2 vessels of any size and accepts load capacities up to 1kg
- Rotation speed is continuously adjustable from 20 to 100 rpm; universal adaptor allows for the use of various vessels of 50 to 160mm height

Reax 20/4, 20/8, and 20/12

- Set and continuously adjust the variable speed on the analog control knob from 1 to 16rpm - ideal for waste water analysis
- Other rotation speeds available upon request (i.e.: 0.5 to 8rpm or 2 to 32rpm)
- Easy and fast attachments of bottles
- Other vessels with 160 to 290mm height and max (136mm diameter can be used with attachments)

13-878-464

Model	Mfr. No.	Cat. No.	Each
Reax 2	036130380	**13-878-464**	2491.43
Reax 20/4	036130400	**13-878-465**	5302.77
Reax 20/8	036130420	**13-878-466**	5922.76
Reax 12/12	036130440	**13-878-467**	6704.79

Fisher Scientific™ Open-Air Rocking Shakers

Ideal for cell culture work and suitable to be used in a variety of environmental conditions

SEE MORE...

Click here to see how the Fisher Scientific Open-Air Rocking Shaker works!

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Heidolph Platform Shaker Accessories - Incubator and Hood System

Incubator 1000 system allows shaking, mixing, and heating with visual reaction control

13-878-471 (Hood only)

Incubator 1000 System is compatible with the following Heidolph Platform Shakers: Duomax 1030, Polymax 1040, Promax 1020, Titramax 1000, and Unimax 1010.

Heating Module

- Capacity of 300w allows for quick temperature adjustments
- Digital temperature settings up to 65°C and spearate display for actual temperature
- Safety circuit prevents overheating
- Electrical heater comes with low-noise blower and provides accuracy of ± 2°C up to 50°C and ± 4°C over 50°C

Flat Hood

- For small vessels
- Total height: 163mm
- Recommended for microtiter plates, culture plates, small flasks, media bottles, and Erlenmeyer flasks up to 100mL

High Hood

- For high vessels and flasks
- Total height: 267mm
- Recommended for large flasks and media bottles, Erlenmeyer flasks up to 1000mL and medium-sized or large common vessels

High Hood XL

- For 2000mL vessels
- Total height: 428mm
- Recommended for 2000mL Erlenmeyer flasks

Model	Mfr. No.	Cat. No.	Each
Heating Module	036130460	**13-878-469**	1960.00
Flat Hood	036130480	**13-878-476**	1232.00
High Hood	036130490	**13-878-471**	1283.00
High Hood XL	036130540	**13-878-474**	1791.64

Heidolph Unimax Orbital Platform Shaker Package

Package featuring Heidloph Unimax 1010

- Package includes:
- One Unimax 1010 orbital shaker
- One heating module
- One high incubator hood

13-878-473

Mfr. No.	Cat. No.	Each
036130520	**13-878-473**	5580.00

Heidolph Reax Vortex Mixer

Ideal for mixing samples in tubes, vials and similar vessels of different diameters at extremely high speed rates

- Strong 5mm vibrating orbit
- Operating modes: Continuous and Automatic
- Rotation Speed: 0 to 2500rpm
- Analog dial speed control, no setings of specified rpm
- Plate for 20mm diameter test tubes is included as standard
- Test tube tray for flasks up to 50mm diameter are optionally available in accessory section

13-889-310

- Voltage: 115V (220V upon request)
- Input Power: 51w
- Dimensions: 134 × 105 × 172mm (W × H × D)
- Overheat Protection: Self resetting
- Permissible ambient temp: 5-40°C at 85% rel. humidity
- Protection Class: IP 22

ORDERING INFORMATION:
Accessories and 220V options available

WARRANTY:
3-Year

Model	Orbit	Rotation Speed Setting	Range	Mfr. No.	Cat. No.	Each
Reax Top	5mm	Analog	Up to 2500rpm	036130000	**13-889-310**	349.00
Reax Control	5mm	Electronic Control	Up to 2500rpm	036130020	**13-878-452**	794.00
Multi Reax	3mm	Digital	150 to 2000rpm	036130040	**13-889-410**	2550.00

Heidolph Titramax Vibrating Platform Shakers

Platform lab shaker with vibrating motion accepts load capacities of 2 or 5kg

13-889-420

Titramax 100 — The compact model

- Insulated system to prevent any heat transfer from the motor that could cause potential thermal damage to your sample
- 1.5 mm vibration orbit performs gentle mixing with best results using small sample volumes
- Set and continuously adjust the variable speed on the analog control knob from 150 to 1,350rpm
- Compact and space saving unit that accepts load capacities of 2kg and space for 4 microtiter plates
- Analog process timer allows for unattended operation and can be set from 1 to 120 minutes
- Acoustic alarm will sound and the operation stops when the set time has elapsed

Titramax 101 — The strong model

- Same features as Titramax 100 plus:
- 3mm vibration orbit which was designed for larger sample volumes

Titramax 1000 — The incubating model

- Same features as Titramax 100 plus:
- Use of 6 microtiter plates increases throughput by 50%
- 1.5mm vibration orbit performs gentle mixing with best results using small sample volumes
- Medium-sized model and accepts load capacities of 5kg
- Model is suitable for the modular incubator system and is recommended for applications which require variable temperature control of up to 65°C

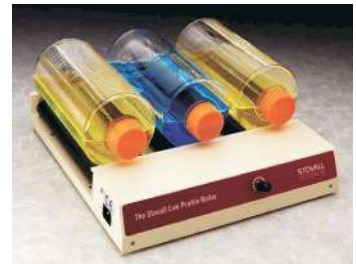
ORDERING INFORMATION: Accessories and 220V options available

Description	Platform Size	Max. Load	Orbit	Mfr. No.	Cat. No.	Each
Titramax 100	220 × 220mm	2kg	1.5mm	036130060	**13-889-870**	1740.00
Titramax 101	220 × 220mm	2kg	3mm	036130080	**13-889-871**	1740.00
Titramax 1000	290 × 258mm	5kg	1.5mm	036130100	**13 889 420**	2140.00

Rollers

IBI Scientific Low Profile Roller

Provides convenient fit into laboratory incubators, ovens and refrigerated units



15-453-227

Fits on benchtops, in high humidity and CO_2 incubators, high-temperature ovens (to 65°C) and in refrigerated units (to 0°C) without need to rearrange shelves or disturb other materials.

- Variable speed control from 2 to 38rpm
- Supplied with six rollers
- Each roller is electronically gear-driven, without belts or pulleys
- Rollers are removable for cleaning and to accommodate various-sized tubes or bottles
- Thin, flat power cord reaches external outlets without damaging incubator gaskets
- Cool-running 12VDC motor
- All finishes are chemically resistant, easy to clean and sterilize
- Aluminum case parts coated in durable, high-bake ester finish

APPLICATIONS:
Cell culture; Western, Northern and Southern Filter Blots, Antibody Staining

ORDERING INFORMATION: Overall dimensions: 15L × 14.25W × 2.37"H (38 × 36 × 6cm); Roller dimensions: 1.12" dia. × 10"L (2.9 × 25.4cm); Net weight: 10.5 lb. (4.8kg); For 115V 50/60Hz, 2A; Additional roller bottles can be purchased separately

INCLUDES: Unit and six rollers

Description	Mfr. No.	Cat. No.	Each
Single Accessory Roller	ACCRLSR10	**15-453-227**	150.60

IBI Scientific™ Low Profile Rollers

Provides convenient fit into laboratory incubators, ovens, and refrigerated units

- Input voltage: 90-240V
- Roller speed: 2-38rpm
- Max. load: 4L of liquid
- Ambient temp. operation: 0 - 60°C

15-453-261

Description	Mfr. No.	Cat. No.	Each
Low Profile Roller	ROLAAUV1S	**15-453-261**	2305.20

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Titer Plate

Fisher Scientific™ Microplate Shakers

Compact, variable speed

13-687-708

These compact, horizontal shakers deliver reliable and regulated shaking of two or four microplates.

- Variable shaking speed: 150 to 1000rpm
- Quick and easy fitting or any standard-depth multiwall plates
- Continuous or timed operation, with automatic switch off
- Operating temperature 4° to 40°C allows for use in cold rooms or incubators
- Holds two or four microplates
- Easy-to-use electronic timer ensures accurate count-down and repeatability of time sensitive incubations

APPLICATIONS:

- Life Science
- Immunoassay
- Shaking ELISA plates
- Staining cells for flow cytometry
- Shaking plates in cold room
- Food and Beverage
- Histamine in cheese
- Vitamins in milk testing

ORDERING INFORMATION:

Optional 4-plate platform accessory must be ordered separately (13-687-709)

Description	Cat. No.	Each
Microplate Shaker	**13-687-708**	1071.00

Thermo Scientific™ Titer Plate Shakers

Used with standard or deep-well microplates

14-271-9

Vortexing motion thoroughly mixes each well.

- Solid-state, variable speed control from 40 to 1100rpm with a 0.12" (0.3cm) circular orbit
- Electronic timer can be set for continuous operation or timed shaking up to 5 min. (adjustable in 30-second increments)
- Independent start switch activates shaker for preset speed and time for repeatability in tests
- Automatic shutoff
- Platform has 0.38" (0.9cm) sides and holds from one to four 96-well standard or deep-well plates
- Two retaining springs and nonslip rubber mat hold plates securely
- Four platform finger slots for easy plate removal
- Rugged, enameled steel shaker body with four nonskid rubber feet

CERTIFICATIONS:

UL and CE listed

Specifications	
Speed Range	40 to 1100rpm
Orbit	0.30cm (0.12")
Timer	Continuous or timed from 30 sec. to 5 min., adjustable in 30-sec. increments
Operating Humidity Range	20 to 80% noncondensing
Operating Temperature Range	0° to 40°C (32° to 104°F)
Platform Load Capacity	1kg (2 lb.)
Exterior L x W x H	28 × 28 × 18cm (11 × 11 × 7")
Shipping Weight	11kg (25 lb.)

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 60Hz	4625-Q	**14-271-9**	1135.00

Corning™ LSE™ Digital Microplate Shaker

Features digital control of shaking speed and run time

Single control knob is used to set parameters, and values are shown on a large 3-digit display. Sturdy base encloses the motor for quiet, vibration-free operation. The included stainless steel platform accommodates up to 4 microplates (standard or deep well) and the shaker is safe for use in temperature controlled environments from 4 to 65°C.

10-320-814

- Large capacity - process up to 4 microplates
- 3mm orbit for resuspending, homogenizing or vortexing
- Large digital display with single-knob control
- Suitable for cold room or incubator use

Mfr. No.	Cat. No.	Price
6780-4	**10-320-814**	1227.11

Boekel™ Jitterbug™ Microplate Incubator Shaker

Accepts two standard microplates or strip trays

Ideal for a variety of immunoassay and research applications.

11-701-13

- Microprocessor allows independent control of temperature, shaking speed, and mixing duration
- Warmed inner aluminum bed with air circulation provides temperature uniformity better than ±0.4°C (with cover)
- Inner chamber cover insulates plates, reduces biohazard risk; outer tinted plexiglass cover adds insulation and protection from light
- Automatic circulating fan prevents condensation
- Rotating counterweight mixer offers continuous timed operation (575 to 1500rpm in 8 increments) or pulse operation (1500rpm for 3 sec.) Timer has 1-second resolution and range of 1 second to 99 minutes, 59 seconds
- Temperature range is ambient to 40°C with resolution of 0.1°C; warms up in 15 minutes
- ABS plastic enclosure with a metal base

ORDERING INFORMATION:
Dimensions: 10L × 10W × 4"H (25.4 × 25.4 × 10.2cm). Net weight: 7 lb. (3.2kg). For 115V; supplied with 120VAC input, 12VAC 2A output adapter.

Description	Mfr. No.	Cat. No.	Each
Microplate Incubator Shaker	130000	**11-701-13**	3010.00

Sieve

W.S. TYLER™ RO-TAP™ Sieve Shakers

Recommended for accurate and consistent particle analysis testing

04-909

The shaker has a unique two dimentional operation: a horizontal, circular motion and a vertical, topping motion which allow material particles to stratify and seek critical openings in the test media.

- Heavy duty, stationary unit With digital 99 min. timer/clock, accurate to 0.1 second
- Requires minimal maintenance
- Each unit test run and serialized before shipment

ORDERING INFORMATION:
Available in 8 or 12" (20 or 30cm) diameters
Unit dimensions: 21L × 28W × 25" H (53 × 71 × 64cm)
Unit Weight: 180 lb. (82 kg)

REQUIRES:
Sieves and receiver (order separately)

Specifications	
Sieve No.	Full Height: 6, Half Height: 13
Power	110V or 220V
Testing Applications	2" down through 635 mesh (20µ)
Oscillations per Minute	278 ±10
Oscillations Displacement	1 × 0.75"
Taps per Minute	150 ±10
Hammer Weight	5 lb. (6 oz.)

Model	Electrical Requirements	Mfr. No.	Cat. No.	Each
8" (20cm)	110V (60Hz)	RX-29	**04-909**	2530.06
12" (30.5cm)	110V (60Hz)	RX-30	**04-909-3**	2830.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

W.S. TYLER™ RO-TAP™ RX-29 E Test Sieve Shaker

Designed for light to medium testing applications

Compact unit requires minimal countertop space and delivers precise sieving results.

- Uses 8" dia. (20cm) test sieves
- Controlled constant amplitude
- Digital controls
- Automatic controlled constant amplitude
- Fine and coarse analysis control settings
- Quick-release hold-down
- See-through cover
- Quiet operation
- Requires minimal maintenance

04-909-10

ORDERING INFORMATION:
Dimensions: 18L × 18W × 30"H (46 × 46 × 76cm); Net weight: 80 lb. (36kg); For 115V

Cat. No.	Each
04-909-10	4590.00

W.S. TYLER™ RO-TAP™ Sieving Lab Kits

All-in-one sieving lab kits make particle analysis testing easy and convenient

- Ro-Tap Sieve Shaker
- Kit for 8" diameter sieves holds 6 sieves (full-height and pan) or 13 sieves (half-height and pan) for particle testing, 2" (5cm) down through 635 mesh
- Kit for12" diameter sieves hold 4 sieves (full-height and pan) or 10 sieves (half-height and pan) for testing down through 500 mesh

04-909-1

ORDERING INFORMATION:
Choose kit based on sieve diameter: 8 or 12" (20 or 30cm); for 110V; 220V shaker kits are also available through your Fisher Scientific Customer Service Representative

INCLUDES: One Ro-Tap Sieve Shaker, Sound Enclosure (04-909-5) and Test Stand (22-043-895).

REQUIRES: Sieves and receiver (order separately)

For Sieve Dia.	Cat. No.	Each
8" (20cm)	04-909-1	3110.00
12" (30cm)	04-909-1A	4304.63

Retsch™ AS 200 Series Analytical Sieve Shakers

Designed for research and development applications, quality control of raw materials and intermediate/end products, and production control

Produce exact, reproducible results in accordance with DIN 66165 in dry and wet operations. Maintenance-free electromagnetic drive with tilted-spring arrangement provides uniform three-dimensional oscillation and vibration of sieve column to move material evenly over entire surface. The result is high-load endurance, extremely quiet operation, and short sieving times with clean separation.

08-417-64/65

- Exact operation at 60Hz line frequency and control of vibration height provide accurate, reproducible results
- Adjustable vibration height from 0.2–3mm to measure particles from 20µm to 25mm
- Available with three clamping systems that can hold 8 full-height or 16 half-height sieves (plus pan) with diameters of 100–203mm Maximum charge quantity of 65/8 lb. (3kg) for all models

Basic Model

- Economical, designed for occasional sieving tasks of "easy" materials that do not require digital technology
- Set time and vibration height by potentiometer
- Optical control of vibration height

Digital Model

- Suitable for routine applications where digital time display, fixed interval operation, analog setting, and optical monitoring of vibration height are needed

Control Model

- Suitable for monitoring inspection, measuring, and testing equipment
- Manufactured using ISO 9000:2001-certified processes
- Digitally displays and monitors vibration, height or "g" acceleration, time, and interval
- Can be calibrated for ISO and GLP/GMP guidelines
- RS-232 interface with EasySieve™ software (sold separately) and a PC

ORDERING INFORMATION:
Dimensions: 13.75D × 15.75W × 33"H (35 × 40 × 84cm). Net Weight: 66 lb. (30kg). For 120V 60Hz; EasySieve software (for use with 08-417-66 only) must be ordered separately. Contact your Fisher Scientific Customer Service Representative for ordering information.

REQUIRES: Sieves and clamping devices (order separately)

WARRANTY: Two years

COMPLIANCE: Built to CE standards (not certified)

Model	Cat. No.	Each
Basic	08-417-64	2896.93
Digit	08-417-65	3200.00

Sonic

Advantech Model L3P Sonic Sifter Separators

Designed for quality control and R&D laboratories due to low noise, easy operation, and small footprint

High-speed sifting method combines two motions for maximum separation effectiveness and minimum particle attrition. Vertical, oscillating column of air moves powdered, granular or pelletized material through sieves, while mechanical pulsing action breaks down particle clusters.

14-294-15

Features

- Convenient front-mounted controls
- Automatically replicates cycle time and sifting method Adjustable cycle time input power
- Easy to load and unload
- Uses 3" diameter (75mm) sieves with clear acrylic frames (not included)
- Accept six standard or three double-height sieves
- Sturdy steel housing
- Transparent door for observing sifting process
- Three non-skid rubber feet

ORDERING INFORMATION:
Dimensions: 12L × 10W × 23"H (31 × 25 × 59cm)

INCLUDES:
Stack assembly (14-294-22), electrical connection cord and instruction manual

REQUIRES:
Sieves (order separately)

CERTIFICATIONS:
UL listed

Electrical Requirements	Mfr. No.	Cat. No.	Each
120V 60Hz	L3P	**14-294-15**	8807.20
120V 50Hz	L3P15	**14-294-92**	8383.00

Advantech Model L3P Sonic Sifter Separator Standard Stainless-Steel Mesh Sieves

For use with Advantech Model L3P Sonic Sifters

Meet all applicable ASTM™ standards. 3" I.D. (7.6cm) sieves with clear acrylic frames. Choice of stainless-steel or nickel-mesh sieves.

- Standard Stainless-steel Mesh Sieves
- Fit up to six sieves
- Overall height: 5/8" (16mm)
- Precision Nickel Mesh Sieves
- Fit up to three sieves

14-294 Sieve Series

Sieve No.	Sieve Opening	Mfr. No.	Cat. No.	Each
Standard Stainless-steel Mesh Sieves				
10	2.00mm	L3S10	**14-294-71**	246.50
12	1.70mm	L3S12	**14-294-72**	247.00
14	1.40mm	L3S14	**14-294-73**	246.50
16	1.18mm	L3S16	**14-294-74**	246.50
18	1.00mm	L3S18	**14-294-75**	246.50
20	850µm	L3S20	**14-294-76**	246.50
25	710µm	L3S25	**14-294-77**	246.50
30	600µm	L3S30	**14-294-78**	244.00
35	500µm	L3S35	**14-294-79**	246.50
40	425µm	L3S40	**14-294-80**	246.50
45	355µm	L3S45	**14-294-81**	246.50
50	300µm	L3S50	**14-294-82**	246.50
60	250µm	L3S60	**14-294-83**	206.50
70	212µm	L3S70	**14-294-84**	246.50
80	180µm	L3S80	**14-294-85**	242.50
100	150µm	L3S100	**14-294-86**	258.50
120	125µm	L3S120	**14-294-87**	258.50
140	106µm	L3S140	**14-294-88**	258.50
170	90µm	L3S170	**14-294-89**	258.50
200	75µm	L3S200	**14-294-50**	274.00
230	63µm	L3S230	**14-294-51**	309.00
270	53µm	L3S270	**14-294-52**	388.00
325	45µm	L3S325	**14-294-53**	457.00
400	38µm	L3S400	**14-294-54**	615.00
Precision Nickel Mesh Sieves				
5	5µm	L3M5	**14-294-64A**	1920.01
10	10µm	L3M10	**14-294-64**	1825.00
20	20µm	L3M20	**14-294-63**	1620.00

Fisher Scientific moving on Program

MOVING TO A NEW LAB?

We can help you get started even before you move so that you can hit the ground running in your new location.
Visit **www.fishersci.com/movingon** to learn more.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sieves

Fisherbrand® U.S. Standard Brass and Stainless-Steel Test Sieves

With 8 or 12" diameters (20.3 or 30.5cm) and aperture sizes from 5.6mm opening to 400 mesh

All sieves are serialized and come with a Test Sieve Certificate. Contact your Fisher Scientific Customer Service Representative for information.

Fisherbrand U.S. Standard Test Sieves

COMPLIANCE:
Meet current ASTM™ E 11 and ISO 3310-1 specifications

NOTES:
The list below does not represent the complete ASTM E-11 specifications; other sizes are available.

Nominal Sieve Opening	Sieve Designation		Brass Frame and Stainless-Steel Cloth				Stainless-Steel Frame and Stainless-Steel Cloth			
			8" Dia. 2" Depth		8" Dia. 1" Depth		8" Dia. 2" Depth		12" Dia. 3.25" Depth	
	U.S. Standard	Fisher Equivalent	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each	Cat. No.	Each
5.6mm	No. 3½	3½	**04-881A**	85.80	**04-881-5A**	88.68	**04-881-10A**	114.70	**04-884-1Y**	191.32
4.75mm	No. 4	4	**04-881B**	131.02	**04-881-5B**	88.68	**04-881-10B**	111.60	**04-884-1Z**	179.00
4mm	No. 5	5	**04-881C**	89.40	**04-881-5C**	88.68	**04-881-10C**	111.60	**04-884-1AA**	179.00
3.35mm	No. 6	6	**04-881D**	91.46	**04-881-5D**	88.68	**04-881-10D**	111.60	**04-884-1AB**	187.80
2.8mm	No. 7	7	**04-881E**	91.88	**04-881-5E**	94.35	**04-881-10E**	115.50	**04-884-1AC**	184.30
2.36mm	No. 8	8	**04-881F**	126.32	**04-881-5F**	95.00	**04-881-10F**	115.50	**04-884-1AD**	179.00
2mm	No. 10	9	**04-881G**	124.50	**04-881-5G**	95.00	**04-881-10G**	116.10	**04-884-1AE**	195.10
1.7mm	No. 12	10	**04-881H**	102.59	**04-881-5H**	94.58	**04-881-10H**	112.30	**04-884-1AF**	182.50
1.4mm	No. 14	12	**04-881J**	97.10	**04-881-5J**	95.10	**04-881-10J**	112.30	**04-884-1AG**	191.60
1.18mm	No. 16	14	**04-881K**	106.71	**04-881-5K**	95.00	**04-881-10K**	111.22	**04-884-1AH**	182.50
1mm	No. 18	16	**04-881L**	106.30	**04-881-5L**	94.58	**04-881-10L**	112.90	**04-884-1AJ**	189.50
850µm	No. 20	20	**04-881M**	104.10	**04-881-5M**	95.00	**04-881-10M**	110.90	**04-884-1AK**	182.50
600µm	No. 30	28	**04-881P**	107.79	**04-881-5P**	94.58	**04-881-10P**	110.90	**04-884-1AM**	189.50
425µm	No. 40	35	**04-881R**	104.60	**04-881-5R**	94.58	**04-881-10R**	110.90	**04-884-1AP**	182.50
300µm	No. 50	48	**04-881T**	105.60	**04-881-5T**	94.58	**04-881-10T**	112.90	**04-884-1AR**	199.00
150µm	No. 100	100	**04-881X**	104.30	**04-881-5X**	102.32	**04-881-10X**	116.20	**04-884-1AW**	183.10
125µm	No. 120	115	**04-881Y**	96.00	**04-881-5Y**	94.00	**04-881-10Y**	117.90	**04-884-1AX**	203.00
106µm	No. 140	150	**04-881Z**	102.60	**04-881-5Z**	99.60	**04-881-10Z**	140.70	**04-884-1AY**	205.00
90µm	No. 170	170	**04-881AA**	112.30	**04-881-5AA**	109.70	**04-881-10AA**	161.10	**04-884-1AZ**	232.00
75µm	No. 200	200	**04-881BB**	124.30	**04-881-5BB**	121.90	**04-881-10BB**	147.80	**04-884-1BA**	214.00
63µm	No. 230	250	**04-881CC**	139.80	**04-881-5CC**	136.00	**04-881-10CC**	170.40	**04-884-1BB**	248.00
53µm	No. 270	270	**04-881DD**	170.90	**04-881-5DD**	165.91	**04-881-10DD**	213.00	**04-884-1BC**	286.00
45µm	No. 325	325	**04-881EE**	204.50	**04-881-5EE**	212.50	**04-881-10EE**	222.00	**04-884-1BD**	317.50
38µm	No. 400	400	**04-881FF**	282.22	----	----	**04-881-10FF**	331.50	**04-884-1BE**	377.00

ACCESSORIES

Fisherbrand® Sieve Receivers

- Fit all 8 and 12" diameter (20.3 and 30.5cm) sieves.

Type	Depth	Cat. No.	Each
For 8" dia. Sieves			
Brass	2" (5.1cm)	**04-886B**	41.40
Brass	1" (2.5cm)	**04-886C**	28.20
Brass with skirt	2" (5.1cm)	**04-881-52**	42.65
Stainless-Steel	2" (5.1cm)	**04-887B**	57.60
Stainless-Steel with skirt	2" (5.1cm)	**04-881-51**	70.00
For 12" dia. Sieves			
Brass	3" (7.6cm)	**04-886D**	42.80
Stainless-Steel	3" (7.6cm)	**04-888A**	134.60

Fisherbrand® Sieve Covers

- Fit all 8 and 12" diameter (20.3 and 30.5cm) sieves.

04-886A

Type	Cat. No.	Each
For 8" dia. Sieves		
Brass	**04-886A**	32.80
Brass with recessed ring	**04-881-87**	31.03
Stainless-Steel	**04-887A**	47.40
Stainless-Steel with recessed ring	**04-881-46**	33.65
For 12" dia. Sieves		
Stainless-Steel	**04-888B**	69.40

Spatulas

With Spoons

Fisherbrand® Spoonula™ Lab Spoon

For transferring crystalline materials, crushing lumps, scraping or chopping

14-375-10

- Polished stainless steel
- Snag-free
- Spoon end: 1.25L × 0.56"W (32 × 14mm)
- Spatula end: 2L × 0.31"W (51 × 7.9mm)

COMPLIANCE: ASTM™ (F899-84) standard stainless steel

Length	Cat. No.	Pack of 6	Case of 12 Pack
9" (23cm)	**14-375-10**	79.76	810.02

Fisherbrand® Spoonulet™ Lab Spoon

For transferring crystalline materials, crushing lumps, scraping or chopping

14-375-20

- Polished stainless steel
- Spoon end: 1.25L × 0.56"W (32 × 14mm)
- Spatula end: 2L × 0.31"W (51 × 7.9mm)

Length	Cat. No.	Each	Pack of 12
7.25" (18.4cm)	**14-375-20**	15.41	148.00

Fisherbrand® Scoopula™ Spatula

Dig out materials, core and stir easily

14-357Q

- Minimizes spilling in handling small amounts of material
- More versatile
- One pointed end, one blunt end
- Stainless steel
- Does not rust

Overall Length	Cat. No.	Pack of 6
6" (15cm)	**14-357Q**	24.30

Scienceware™ Ellipso-Spoon™ Spatula

Specially curved shape permits contact with all corners of bottles and containers to minimize sample loss

- Extracts crystals, granulated and solid substances, thick liquids, and delicate materials
- Features a spoon end and a spatula end
- Made of polished 304 grade stainless steel
- Flameproof, autoclavable and impervious to boiling water

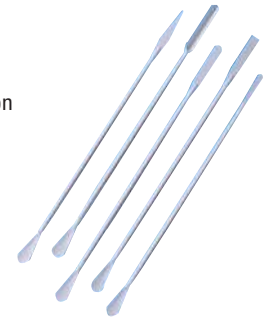
14-375 Series

Length	Mfr. No.	Cat. No.	Each	Case of 12
5.875" (15cm)	H36806-0015	**14-375-55**	39.85	405.00
8.25" (21cm)	H36807-0021	**14-375-56**	43.30	440.00
11.81" (30cm)	H36808-0030	**14-375-57**	76.70	785.50
15.75" (40cm)	H36809-0040	**14-375-58**	90.00	955.00

Corning™ Sterile Spatulas

For molecular biology applications, lyophilized samples and contamination-free sampling

- Single-use and disposable
- RNase-/DNase-free format
- Antistatic
- Rigid, nontoxic polystyrene construction
- Good chemical resistance to aqueous solutions



ORDERING INFORMATION:
Individual packages have been radiation sterilized

COMPLIANCE:
Nonpyrogenic certification;
Meet USP Class VI Requirements

14-245-95, -98, -97, -99, -96

Description	Blade Length	Mfr. No.	Cat. No.	Case of 100
Tapered blade	$9^5/_8$" (24.6cm)	3003	**14-245-95**	276.26
Small spoon	$9^1/_4$" (23.4cm)	3004	**14-245-96**	276.26
Rounded end	$9^3/_4$" (24.7cm)	3005	**14-245-97**	276.26
V-scoop	$9^3/_4$" (24.7cm)	3006	**14-245-98**	276.26
Flat end	$9^3/_4$" (24.7cm)	3007	**14-245-99**	276.26

With Scrapers

Fisherbrand® Chemi-Scraper™ Spatulas

No rusting or sticking

14-373

- Type 410 stainless steel with bright satin finish
- Stem dia.: 0.16" (4mm)
- One rounded and one square end, each approx. 2L × 0.31"W (51 × 7.9mm)

Length	Cat. No.	Each	Pack of 12
7" (18cm)	**14-373**	22.64	227.50

Fisherbrand® Spatula/Scraper

For heavier work

14-373-25A

- Type 410 stainless steel
- Stem dia.: 0.20" (5mm)
- Double flat ends: one rounded, one squared
- Each end approx.: 3L × 0.75" W (76 × 20mm)

Length	Cat. No.	Each	Pack of 12
12" (31cm)	**14-373-25A**	43.32	435.42
18" (46cm)	**14-373-25B**	53.11	533.78

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

With Handles

Fisherbrand® Handi-Hold™ Spatula

Resists deterioration by boiling water, acids and most solvents

- Polyvinylchloride plastic handle
- Stainless-steel blade

14-366A

Blade Length	Cat. No.	Each	Pack of 12
3" (7.6cm)	**14-366A**	20.96	207.00
4" (10cm)	**14-366B**	22.19	223.00
5" (13cm)	**14-366C**	25.14	247.50
6" (15cm)	**14-366D**	25.45	251.00
8" (20cm)	**14-366E**	29.84	294.00

Fisherbrand® Spatula with Stainless-Steel Blade

Bright finish; rust and corrosion resistant

- Nonstick standard blade
- Riveted hardwood handle

14-365A

Blade Length	Cat. No.	Each	Pack of 12
3" (7.6cm)	**14-365A**	21.17	208.50
4" (10.16cm)	**14-365B**	20.81	205.00
5" (12.7cm)	**14-365C**	22.75	224.00
6" (15.24cm)	**14-365D**	28.76	283.00
8" (20.32cm)	**14-365E**	34.07	336.00
10" (25.4cm)	**14-365F**	50.85	501.00
12" (30.48cm)	**14-365G**	58.14	573.00

Fisherbrand® Economical Spatula with Handle

- Flexible carbon-steel blade
- Riveted hardwood handle

14-360A

Blade Length	Cat. No.	Each	Pack of 12
3" (7.6cm)	**14-360A**	19.45	187.10
4" (10.16cm)	**14-360B**	21.62	213.00
5" (12.7cm)	**14-360C**	20.50	202.00
6" (15.24cm)	**14-360D**	26.01	256.50
8" (20.32cm)	**14-360E**	28.61	282.00
10" (25.4cm)	**14-360F**	37.59	370.50
12" (30.48cm)	**14-360G**	44.47	438.50

Fisherbrand® OUTFIT YOUR LAB WITH FISHERBRAND

Fisherbrand outfits every part of your workspace. Whether you are working on the bench, in the freezer, in the hood, on the shelf or in the field, Fisherbrand has products to fit your every need. View our portfolio of over 10,000 products at **www.fishersci.com/fisherbrand.**

Microspatulas

Fisherbrand® Handi-Hold™ Microspatula

Cushion-grip vinyl handle for easy holding

- Spoon-like stainless-steel blade
- Blade: 0.75L × 0.18" W (19 × 4.8mm)

21-401-15

Length	Cat. No.	Pack of 12	Case of 12 Pack
5.5" (14cm)	**21-401-15**	101.57	1058.46

Fisherbrand® Microspatula

Double-ended microspatula

- Stainless-steel blade
- One end tapered to 0.125" (3.2mm), one end rounded
- Blades approx.: 2L × 0.31"W (51 × 7.9mm)

21-401-10

Length	Cat. No.	Pack of 12	Case of 12 Pack
8" (20cm)	**21-401-10**	103.34	1045.50

Fisherbrand® Hayman Style Microspatulas with V-Shaped Spoon

Double-ended microspatula with spoon

21-401-25B

- Spatula end has slightly rounded bent tip and sharpened end
- Nickel-stainless-steel blade with glazed finish
- Stem dia.: 0.103" (2.6mm)
- Spatula: 1.5L × 0.125"W (38 × 3.2mm)
- V-shaped formed spoon: 0.5L × 0.07"W (13 × 1.6mm)

Length	Cat. No.	Each	Pack of 12
6.5" (17cm)	**21-401-25B**	18.07	173.50

Fisherbrand® Hayman Style Microspatula

For fine operations or no-spill carrying of small quantities

21-401-25A

- Nickel-stainless-steel blade with glazed finish
- Stem dia.: 0.103" (2.6mm)
- Spatula end: 1.25L × 0.125"W (32 × 3.2mm)
- Spoon end: 0.5L × 0.125"W (13 × 3.2mm)

Length	Cat. No.	Each	Pack of 12
6.25" (16cm)	**21-401-25A**	19.37	189.80

Semimicro

Fisherbrand® Semimicro Spatula with One Tapered End, One Rounded End

Transfer small quantities from semimicro centrifuges and test tubes

14-374

- Stainless steel
- Tip thickness: 0.035" (0.89mm)
- One end tapered to 0.14" (3.5mm) rounded tip for use in conical-bottom tubes
- Rounded end has 0.25" (6.6mm) rounded tip for regular tubes

Length	Cat. No.	Each	Pack of 12
7" (18cm)	**14-374**	17.23	165.50

Specific Gravity

Fisherbrand® Pycnometer

For specific gravity determinations of semifluids

03-247Q

- Three-part aluminum alloy construction
- Withstands pressure needed to expel air from viscous material and fill pycnometer completely
- Three-part construction allows close manufacturing tolerances, prevents material under test from being forced into threads
- Parts are cut from solid bar stock to avoid pits or cavities

ORDERING INFORMATION:
Measures 2 dia. × 1"H (5 × 2.5cm)

Approx. Capacity	Cat. No.	Each
11.5mL	**03-247Q**	160.60

Kimble-Chase Kimax™ Specific Gravity Bottle for Cement, Sand

Used to obtain specific gravity of cement, sand and other fine materials

03-270

- Le Chatelier design body holds approximately 250mL; oval bulb in neck holds 17mL
- Graduated below bulb from 0 to 1.0mL; two extra 0.1mL lines above 1.0 and below 0
- Neck graduated from 18 to 24mL in 0.1mL divisions
- Tolerance ±0.05mL

ORDERING INFORMATION:
With ₮ 13 stopper.

COMPLIANCE:
Complies with ASTM™ E 694 and C 188.

Capacity	Mfr. No.	Cat. No.	Each	Case of 2
24mL	15115 24	**03-270**	213.50	313.50

Kimble-Chase Kimax™ Specific Gravity Bottle for Oils, Tars

Determines specific gravity of various oils, tars, cements and varnishes

01-710

- Hubbard-style bottle with ₮ 24/12 ground-glass stopper
- Has 0.06" (1.6mm) opening

ORDERING INFORMATION: 27 O.D. × 82mmH

COMPLIANCE: ASTM™ D 70, AASHTO T43, ASTM D 1963, ASTM D 115.

Capacity	Mfr. No.	Cat. No.	Pack of 2	Case of 6 Pack
24mL	15110 24	**01-710**	305.00	1349.00

Kimble-Chase Kimax™ Specific Gravity Bottles, Pycnometer

Flask with side tube and cap plus thermometer

03-230B

- Capacity within 10% nominal capacity etched on flask
- Side tube cap has small vent for air escape
- Thermometer to record temperature during determinations has range of 14° to 38°C in 0.2° graduations, accurate to ±0.2°C
- ₮ 10/18 thermometer joint
- ₮ 5/12 cap
- Bodies numbered for easy identification

INCLUDES: Side tube cap has small vent for air escape

COMPLIANCE: ASTM D 153

ALERTS: The products indicated contain mercury. Don't put products containing mercury in the trash. Products containing mercury are to be recycled or disposed of as hazardous waste. Products containing mercury may be regulated by local, state or federal Laws. Some products containing mercury are not available for sale in some states.

Capacity	Mfr. No.	Cat. No.	Each
Mercury Thermometer			
25mL	15123R 25	**03-230B**	244.50

Pyrex™ Brand Specific Gravity Bottle for Viscous Fluids

For specific gravity testing with viscous fluids, semisolid bitumens and emulsions

01-716

- Modified Hubbard-Carmick design
- Erlenmeyer form

ORDERING INFORMATION:
₮ 24/12 ground-glass stopper. 40 dia. × 57mmH.

COMPLIANCE:
For use in accordance with ASTM™ D 70, D 1429, and D 115.

Capacity	Mfr. No.	Cat. No.	Each	Case of 12
25mL	1620 25	**01-716**	154.70	1332.00

Spectrometers

Thermo Scientific™ iCE™ 3300 AA Spectrometer

High-performance, versatile double-beam atomic absorption spectrometer

Simplifies even the most complicated analyses. Superior double beam optics provide outstanding performance, while the innovative hardware and software design ensures that running samples, developing methods and maintaining the instrument is easy.

- Compact design, small footprint
- Enhanced, user-friendly software with complete wizard-driven interface
- Exceptional flame sensitivity — achieved by high-efficiency nebulization through a fully inert spray chamber
- Finned universal titanium burner ensures exceptional atomization, even with difficult samples
- Quadline background correction
- Fully automated gas box ensures safe, reliable and repeatable analysis with all flame types

ORDERING INFORMATION: Accessories, including a computer workstation and monitor, are also available separately.

iCE 3300 AA Spectrometer

Specifications	
Optics	Double beam
Monochromator	Ebert type
Lamp Carousel	Lamp coded, auto-aligning 6-lamp turret
Photomultiplier	Wide range
Flame Atomizer	Universal system (uses 50mm Ti burner)
Background Correction	Guaranteed Quadline deuterium system
Gas Management	Automatic
PC Software	Included as standard
Furnace Atomizer Option	GFS33 combined module
Furnace Vision System	Optional
Validation Package	Optional

Description	Mfr. No.	Cat. No.	Each
iCE 3300 AA Spectrometer (unit only)	9423-500-33301	**14-200-200**	16,980.00
iCE 3300 AA Spectrometer (Automated Flame Bundle)	9423-501-30002	**14-200-203**	23,700.00
iCE 3300 AA Spectrometer (with Furnace Module)	9423-501-30003	**14-200-204**	35,900.00
iCE 3300 AA Spectrometer (100mm burner)	9423-500-33302	**14-386-471**	16,980.00

ACCESSORIES

iCE3300 AA Accessories

Featuring certified installation and familiarization service

- Dell Ultrasharp 1740FPT 17" flat panel monitor

Visit www.fishersci.com to see all iCE 3300 AA accessories.

INCLUDES:
Product installation and system familiarization by a certified Thermo Fisher Scientific field service engineer. **Note:** This is not application training.

Description	Mfr. No.	Cat. No.	Each
Installation and Familiarization	701-524800	**14-200-139**	1924.00
17" Monitor	840-086300	**14-200-138**	411.50

ON THE WEB...

To learn more about Thermo Scientific's complete spectroscopy product line

Visit www.fishersci.com and search for Spectroscopy

Thermo Scientific™ Nicolet™ iS™5 FT-IR Spectrometer

No-compromise FT-IR performance, fit and affordability

Provides superior FT-IR performance in a compact size at an affordable price. Combining flexible sample handling and leading Thermo Scientific OMNIC™ software, the Nicolet iS5 spectrometer is the ideal FT-IR solution.

The Nicolet iS5 FT-IR provides the ideal performance and fit for product assurance testing and material identification. It implements the same field-proven FT-IR technology found on other Thermo Scientific Nicolet FT-IR models.

The lightweight design and small footprint enables you to bring the spectrometer where you need answers most: from your busy laboratory to the production floor or in the warehouse. Additionally, it's a perfect match for analytical laboratories seeking to deploy multiple units across manufacturing facilities worldwide.

Premier performance in a compact size

- Features a footprint similar in size to a laptop computer, making it small enough to move around easily
- Rugged enough to transport around the plant or across campus
- 35 × 28cm (13.5 × 10.9 inches); 10 kg (22 lb.)

Durable design

- Designed to provide trouble-free operation even in challenging environments
- Field-proven optics encased in a sturdy magnesium-alloy frame
- A thermally-controlled diode laser provides years of use

Easy to maintain

- Replacing the IR source or desiccant in your spectrometer does not require a service call or even opening up the instrument

Ready to handle any environment

- Withstands a wide range of temperature and humidity conditions
- Vibration, electromagnetic interference (EMI), dust and tilt were factored into instrument design
- Magnesium-alloy construction provides excellent mechanical characteristics for stiffness, thermal properties, vibrational dampening and reduced weight

14-200-120 Series

Specifications	
Detector	Fast recovery deuterated triglycine sulfate (DTGS) detector
Source	Mid-infrared Ever-Glo; user replaceable from bottom plate
Beamsplitter	KBr/Ge mid infrared optimized
Laser	Temperature controlled solid-state Near-IR diode laser
Performance Verification	ASTM E1421 to meet customer ISO/GLP requirements, Internal NIST-traceable 1.5 mm polystyrene film (serialized)
Humidity/ Temperature	Tightly sealed and desiccated optical bench with protective KBr windows, rechargeable desiccant cartridges with humidity indicator, Internal diagnostics with electronic humidity and heat sensors
User-replaceable components	Source, desiccant, power supply, sample compartment windows

Description	Mfr. No.	Cat. No.	Each
Nicolet iS5 FT-IR Spectrometer (KBr Windows)	912A712	**14-200-121**	12,359.00
Nicolet iS5 FT-IR Spectrometer (ZnSe Windows)	912A714	**14-200-123**	13,098.00

Thermo Scientific™ picoSpin™ 45 NMR Spectrometer

Affordable, dedicated benchtop spectrometer for research, manufacturing or classroom chemical analysis

Provides the power of Nuclear Magnetic Resonance (NMR) spectroscopy in a compact and affordable instrument. By drastically lowering cost and size, the picoSpin 45 instrument makes NMR spectroscopy accessible to a variety of laboratories. Simple to operate, it allows students and technicians with limited NMR experience to use the power of NMR spectroscopy to identify chemical compounds or elucidate their structure. The unit occupies a small fraction of the space of a conventional NMR spectrometer.

The instrument's fluid capillary system is contained within a replaceable cartridge and requires only 30µL of a liquid sample. Its temperature-controlled permanent magnet does not require liquid cryogens, eliminating the need for consumables or custom laboratory facilities. Additionally, because the instrument is lightweight (less than 5kg), it can easily be shared across multiple laboratories. NMR data is generated in the industry-standard JCAMP-DX format for compatibility with standard NMR data analysis packages.

- Miniature 45MHz 1H pulsed FT NMR spectrometer
- High performance, high resolution, lightweight and portable
- Easy to use; requires no specialized training for operation
- Replaceable capillary cartridge
- Microcoil capillary probe
- Fully programmable pulse sequencer
- Ethernet interface
- Web-server GUI
- Includes a one-year Mnova™ NMR suite license

Specifications:

- Sample volume: 30µL
- Dimensions: 7 × 5.75 × 11.5" (17.8 × 14.6 × 29.2cm)
- Weight: 10.5 lb. (4.8kg)

WARRANTY: 1 year

14-385-160

Description	Mfr. No.	Cat. No.	Each
picoSpin 45 NMR Spectrometer	912A0813	**14-385-160**	27,810.00
picoSpin 45 NMR Spectrometer (High Temp)	912A0814	**14-385-161**	33,372.00
picoSpin 45 NMR Spectrometer (19 Fluorine)	912A0815	**14-385-162**	33,372.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Before You Buy UV-Vis Spectrophotometers

Thermo SCIENTIFIC

General Information

Education

- Introductory laboratory
- Advanced laboratory

Life Science and Research

- DNA/RNA concentration and purity
- Proteins quantitation
  – Direct A280
  – Total Protein (colorimetric)
- Kinetics
- DNA melting
- Solids analysis

Solutions Analysis

- QA/QC
- Contaminant quantitation
- Water analysis
- Pharmaceutical QA/QC
- Automation

Product Information

Thermo Scientific™ UV-Vis spectrophotometers have the tools to support YOU!

- **Stability**
  – Dual-beam optical system
- **Reliability**
  – Xenon lamp with seven-year service life
- **Robustness**
  – 60 years' experience from the people behind the SPECTRONIC, GENESYS and NanoDrop instruments
- **Microvolume samples**
  – Use only 1µL with NanoDrop
- **Automation/High throughput**
  – Multi-cell changers
  – Autosampler support
  – NanoDrop 8000 for samples in 96-well plates
- **User-friendly interface**
  – NanoDrop Software
  – INSIGHT software

INSTRUMENT	TEACHING	SOLUTIONS ANALYSIS	LIFE SCIENCE	FDA COMPLIANCE	RESEARCH
SPECTRONIC 200	•	•			
GENESYS 20	•	•			
GENESYS 10S	•	•			
Evolution 201/220		•		•	•
Evolution 300		•	•	•	•
BioMate 3S	•		•		•
Evolution 260Bio			•		•
NanoDrop 2000	•		•		•
NanoDrop 8000			•		•
NanoDrop Lite	•		•		

Spectrophotometers

UV Visible

Thermo Scientific™ GENESYS™ 10S UV-Vis Spectrophotometer

New "Turbo" electronics providing faster scanning and improved data processing

Ideal for basic QA/QC, routine analysis and educational laboratories.

- Integrated 6-cell changer
- Patented out-of-plane monochromator configuration
- Precision silicon detectors allow measurements from the UV to the near-IR
- A cost-effective Green Dye standard is available to verify both photometric accuracy and wavelength accuracy
- Acquire scanning, fixed wavelength, kinetics, or concentration data using the embedded software
- Extend experiment types with application software on a computer
- Fixed point and full range scanning (3 to 5 times faster) on all models
- Easily transport and store
- Operate without computer control
- Simple walk-up screen displays the real-time measurement and the wavelength for fast and easy readings
- Protective plastic cover
- Wide range of optional accessories and software
- Dimensions: 15.7D × 11.8W × 9.8"H; Weight: 19 lb. (8.6kg)

GENESYS 10S UV-Vis

- Dual beam — Internal reference detector
- 1.8nm spectral bandwidth
- Xenon flash lamp light source
- Dual silicon photodiode detector
- Wavelength: 190–1100nm range, 0.2, 0.5, 1.0, 2.0, 3.0, 5.0nm data interval
- Photometric: Up to 3.5 A at 260nm linear range, -0.5 to 5.0 A; -1.5 to 125%T; ±9999 C display, <0.0005 A/hr. drift <0.08%T at 220, 340nm (NaI, $NaNO_2$), <1.0%T 198nm (KCl) Stray light
- Resolution (toluene in hexane) >1.5

14-386-515

Specifications	
Model	GENESYS 10S UV-Vis
Display	Graphical with LCD backlight 3.8 × 2.8" (9.7 × 7.1cm)
Keypad	Sealed membrane with tactile response keys
Printer (Optional)	40 column Internal (text and graphics) External USB printer (HP PCL 3 or greater)
Connectivity	USB Type A port for USB memory device (front panel) USB Type B port for optional computer connectivity (rear panel) USB Type A port for external printer (rear panel)
Weight	19 lb.(8.6kg)
Power Requirements	100 to 240V, 50 to 60Hz selected automatically
Wavelength:	
Repeatability	±0.5nm
Slew Speed	11,000nm/min.
Scan Speed	10 to 4200nm/min.
Accuracy	±1.0nm

Description	Mfr. No.	Cat. No.	Each
10S UV-Vis; Single/six cell	840-208100	**14-386-515**	5100.00
10S UV-Vis, Single/six cell; Internal printer	840-208200	**14-386-516**	5550.00
10S Vis; Single/six cell	840-207900	**14-386-519**	3500.00
10S Vis; Single/six cell; Internal printer	840-208000	**14-386-520**	3950.00

Thermo Scientific™ Evolution™ 300 UV-Vis Spectrophotometer

Powerful Xenon lamp and variable bandwidth provide a comprehensive package for life science, pharmaceutical and QA/QC applications

14-386-404

Xenon Lamp

- Provides excellent performance over the full wavelength range
- Ready to use without instrument warmup for fast readings
- Activates only when taking a measurement; extended lamp life lowers cost of instrument ownership
- 3-year warranty

Key Features

- 5 variable spectral bandwidth settings
- Acquisition rate: 50 data points per second

Optional Smart Accessories For Any Application

- Full line available for Life Sciences and QA/QC
- Install or remove without restarting the instrument
- Software identifies and configures to accommodate accessory
- Each accessory has a unique serial number for event logs and audit trail capabilities
- Automated performance verification with CVC accessory
- Mercury lamp accessory is available for testing and defining wavelength accuracy

PC Control

- Enables data collection and distribution to third party applications
- Powerful VISION software suite controls instrument
- Collects, stores, recalls and analyzes data

Local and PC Control

- Combines keypad and PC control systems for maximum flexibility in labs with a variety of experimental needs

APPLICATIONS:

General Spectroscopy

- High-resolution UV-Visible spectroscopy
- Temperature-based investigations

Life Science

- Nucleic acid and protein concentration assays
- Thermal denaturation/renaturation
- Kinetics

Contd. on the next page.

Thermo Scientific™ Evolution™ 300 UV-Vis Spectrophotometer, Contd.

APPLICATIONS contd.:

QA/QC

- Quantitative and finished product analysis
- Measurements in the regulated laboratory

Pharmaceutical

- General Research and QA/QC
- Tablet dissolution

ORDERING INFORMATION:
All accessories are sold separately. Including cell changers, cuvet and test holders, calibration carousels, sippers, fiber optic probes, small volume sampling and accessories for reflectance and rapid mixing.

CERTIFICATIONS: ISO 9001:2000

NOTES: To use the Evolution 300 UV-Vis Spectrophotometer in a regulated or quality control environment, we offer a wide selection of compliance products and services to reduce implementation time and assure system performance.

Description	Mfr. No.	Cat. No.	Each
Evolution 300 Local Control	10300301	**14-386-404**	14,990.00
Evolution 300 PC w/VISIONpro™ Software	10300201	**14-386-407**	12,500.00
Evolution 300 PC w/VISIONsecurity™ Software	10300101	**14-386-406**	13,500.00

Specifications	
Optical System	Dual-beam, quartz-coated
Spectral Bandwidth	0.5, 1.0, 1.5, 2.0, 4.0nm
Wavelength	
Range	190-1100nm
Accuracy	±0.20nm (546.11nm Hg emission line), ±0.3nm for 190-900nm
Repeatability	Peak separation of repetitive scanning of a Hg line source: <0.10nm, Standard deviation of 10 measurements: <0.05nm
Photometric	
Range	>4A
Accuracy	±0.004A at 1A, ±0.004A at 2A, ±0.006A at 3A
Noise	<0.00018A at 0A; <0.00022A at 1A; <0.00050A at 2A, 500nm, RMS
Scan Speed	1-3800nm/min.
Stray Light	198nm: >2.0A KCl, EP; 220nm: >3.7A NaI, 340nm: >3.9A $NaNO_2$
Light Source	Xenon
Baseline Flatness	±0.0015A (200 - 800nm) 2.0nm SBW, smoothed
Detector	Silicon photodiode
Monochromator	Modified Ebert monochromator
Dimensions	21L × 24W × 15"H (53 × 61 × 38cm)
Electrical Requirements	100/240V 50/60Hz
Net Weight	48.4 lb. (22kg)

Thermo Scientific™ Evolution™ 200 Spectrophotometer

Brings the demanded usability and performance without added complexity

14-380-420

Powerful software, cutting-edge instrumentation and an array of accessories consistently deliver high quality results.

- Double Beam Geometry with 1nm spectral bandwidth for precision measurements
- Application Focused Beam Geometry (AFBG) enables the best performance from microcells, solid samples and fiber optic probes
- Xenon Flash Lamp provides high energy throughput and 3-5 years of uninterrupted service
- Local control or PC configurations
- Wide accessory range with various temperature control options, sample changers, sippers and solid sampling devices
- Precision monochromator drive delivers fast scanning data collection and wavelength accuracy
- Xenon Flash Lamp allows low cost of ownership, longer time between maintenance cycles, high intensity in the UV and visible regions of the spectrum, requires no warm-up time with guarantee for 3 years of continuous use
- Electronic triggering provides the highest level of accuracy for rapid-mixing kinetics measurements
- Choice of Peltier Single Cell Holder or a Smart 8-Cell Peltier system for temperature control and sample monitoring from 0 to 100°C
- The Thermo Scientific UV Validator package provides support for system qualification and validation activities for the Evolution 200 Series spectrophotometers, software and accessories. It provides all of the documentation and reference materials needed to facilitate compliance of your system with the requirements of FDA, GxP, ISO 9001:2000 and ISPE 2001 guidelines and regulations
- The Evolution 200 series are the only instruments in their class to offer a Mercury Lamp accessory
- Available Thermo Scientific INSIGHTsecurity software if your laboratory requires 21 CFR Part 11 compliance

Description	Mfr. No.	Cat. No.	Each
Evolution 201 PC	840-210800	**14-380-420**	6942.21
Evolution 201 LC	840-210700	**14-380-421**	7725.00
Evolution 220 PC	840-210600	**14-380-422**	8446.00
Evolution 220 LC	840-210500	**14-380-423**	9414.21

Specifications		
Model	Evolution 201	Evolution 220
Spectral Bandwidth	1nm	Variable: 1nm; 2nm AFBG Microcell optimized AFBG Fiber optic optimized AFBG Materials optimized
Optical Design	Double Beam with sample and reference cuvet positions; Czerny-Turner Monochromator	
Light Source	Xenon flash lamp, 3-year warranty (Typical lifetime: 5 years)	
Detector	Dual Silicon Photodiodes	
Wavelength		
Range	190 to 1100nm	
Accuracy	±0.8nm (full range 190 to 1100nm) ± (546.11nm mercury line)	
Scan Speed	<1 to 6000nm/min.; variable	
Photometric		
Range	>3.5A	
Accuracy	0.5A: ±0.0004A 1A: ±0.006A 2A: ±0.010A Measured at 440nm using neutral density filters traceable to NIST™/NLPL	
Noise	0A: ≤0.00015 A 1A: ≤0.00050 A 2A: ≤0.00080 A 260nm, 1nm SBW, RMS	
Dimensions	24.3 × 19.1 × 11" (62.2 × 48.6 × 27.9mm)	
Weight	31.7 lb. (14.4kg)	
Electrical Requirements	90 to 240VAC 47 – 63Hz, Single Fuse (110V vs. 220V)	

ACCESSORIES

Accessories for use with Thermo Scientific™ Evolution™ 300 Spectrophotometers

Single-cell Sample Holders

Adjustable Microcell Holder

- Holds one ultra-microcell, microcell or standard rectangular cell with 10mm maximum pathlength

Cylindrical Cell Holder

- Holds one cylindrical cuvet with 100mm maximum path length

Long Pathlength Rectangular Cell Holder

- Holds one rectangular cuvet with 5 to 100mm pathlength

Test Tube and Vial Holder

- Holds one test tube or vial cuvet with diameter from 10 to 16mm and height from 75 to 100mm

INCLUDES: One cuvet holder on base plate

Description	Mfr. No.	Cat. No.	Each
Adjustable Microcell Holder	10011501	**14-386-413**	566.50
Cylindrical Cell Holder	10011201	**14-386-410**	438.00
Long Pathlength Rectangular Cell Holder	10011101	**14-386-411**	628.50
Test Tube and Vial Holder; 10-16mm diameter and 75-100mm high	10011301	**14-386-412**	340.32

Thermostatted 8-Cell Linear Changer

Measures up to eight sample cells under constant temperature-controllled conditions

- Fast movement between eight samples
- Recognized by built-in Local Control or PC software, smart alignment and serial number reporting
- Accommodates eight rectangular cuvets with maximum pathlength of 50mm
- Use standard cells, black-walled microcells or dissolution flow cells

REQUIRES: Temperature Probe Accessory (14-386-420)

Description	Mfr. No.	Cat. No.	Each
8-Cell Thermostatted Cell Changer	10010801	**14-386-417**	2999.00

8-Position Peltier Cell Holder

Temperature control from 0° to 100°C

- Holds up to eight cuvets of 10mm pathlength maximum
- No temperature ramping

REQUIRES: Water pump for 8-Cell Peltier accessory

Description	Mfr. No.	Cat. No.	Each
8-Cell Peltier	222-239100	**14-386-451**	4600.00

Thermo Scientific™ Smart Sipper System

Easy-to-use sampling accessory featuring a reliable multi-roller peristaltic pump

- For use with Thermo Scientific™ Evolution™ 300 Spectrophotometers
- Complete and automated integration into VISION and Local Control software methods
- Automatic recognition by software, smart alignment and serial number reporting
- Handles sample volumes from 200µL to 9.999mL with customizable sip volume and air gap
- Methods can be automated for sample measurement after they are sipped

REQUIRES: Silicone pump tubing (14-386-424) or acid pump tubing (14-386-425) and flow cell

Description	Mfr. No.	Cat. No.	Each
Silicone pump tubing (1m)	401322844561	**14-386-424**	31.31
Acid pump tubing (1m)	401322844571	**14-386-425**	135.75

Thermo Scientific™ Evolution™ 300 Spectrophotometers Micro Stirring Bars

For use with stirring accessories

- Use in combination with Single Cell Water Thermostatted Smart Peltier (14-386-414) or Thermo Scientific™ Evolution™ 60 Singe-Cell Peltier (14-386-461) Accessories

INCLUDES:
10 stirring bars

Description	Mfr. No.	Cat. No.	Pack of 10
Micro Stirring Bars	9423UV97030E	**14-386-439**	76.60

Smart Peltier Thermostatted Single Cell Holder

Controls temperature from 5° to 110°C

- Recognized by VISIONpro, VISIONlife and VISIONsecurity PC software
- Temperature ramping from 0.1 to 6°C/min.
- Air-cooled system with sample stirring
- Accommodates one rectangular cuvet with 10mm maximum pathlength

INCLUDES: One 1-cuvet holder on Smart base, temperature controller, Packet of 10 stirring bars (14-386-439)

14-386-414

REQUIRES: Temperature Probe (14-386-420) for temperature monitoring

For Use with	Mfr. No.	Cat. No.	Each
Thermo Scientific™ Evolution™ 300 Spectrophotometers	10010301	**14-386-414**	3000.00

ACCESSORIES

Accessories for use with Thermo Scientific™ Evolution™ 300 Spectrophotometers

Thermo Scientific™ Temperature Probe

- Monitors sample temperature in a cuvet

14-386-420

Description	Mfr. No.	Cat. No.	Each
Temperature Probe	10011401	**14-386-420**	901.25

Thermo Scientific™ Temperature Control Tubing Kit

Description	Mfr. No.	Cat. No.	Each
Temperature Control Tubing Kit (1m)	10011801	**14-386-427**	371.26

Solid Sample Holders

- Provides easy mounting of solid samples like filters, plastic, glass and optics
- Accommodates standard 2 × 3" sample holders

Universal Sample Holder

- Holds round or square optical samples; glass or plastic samples; lenses from sunglasses or goggles
- Requires one Solid Sample Holder (14-387-503)

Description	Mfr. No.	Cat. No.	Each
Solid Sample Holder	222-217200	**14-387-503**	798.54
Universal Sample Holder	222-217400	**14-387-504**	527.00

Thermo Scientific GENESYS™ 10 UV-Vis Spectrophotometers Accessories

Single Cell Holder

- Accommodates single-cell cuvet or 10mm dia. test tubes

Mfr. No.	Cat. No.	Each
336028	**14-385-406**	55.00

Single Cell Platform and Holder

Mfr. No.	Cat. No.	Each
335916	**14-385-476**	85.80

Cylindrical Longpath Cell Holder

Mfr. No.	Cat. No.	Each
336012	**14-385-400**	177.00

Interface Cable

Mfr. No.	Cat. No.	Each
335942	**14-385-147**	63.10

Narrow Rectangular Longpath Cell Holder

Mfr. No.	Cat. No.	Each
335112	**14-385-273**	160.40

Test Tube Holder

Mfr. No.	Cat. No.	Each
336014	**14-385-401**	157.34

Thermo Scientific™ Air-Cooled Peltier Accessory for GENESYS™ series, BioMate™ 3 and Evolution™ 60 Spectrophotometers

Quickly specifies the temperature for the analysis and controls the rate of stirring with the external control module

The Peltier control system provides high accuracy temperature control without the need to watch water levels, mix in anti-freeze or anti-bacterial, or plumb the accessory with hoses and clamps.

14-386-461

- Control module features a large temperature display and graphical indication of the stirring speed
- Module software allows you to change temperature or stirring speed quickly
- Offers exceptional temperature stability and fast temperature transitions
- Small temperature differential between set temperature of the accessory and temperature as measured inside a standard, 1cm cuvette
- Less expensive than most recirculating liquid temperature controllers
- No maintenance design

ORDERING INFORMATION:
Sample stirring, requires stirring bars available separately (9423UV97030E). Designed for biologically relevant assays that require temperature control at 25°, 37°, 40° and 50°C.

Set Temperature	Measured Temperature
77°F (25°C)	77°F (25.02°C)
99°F (37°C)	97°F (36.3°C)
140°F (60°C)	137.48°F (58.6°C)

Description	Mfr. No.	Cat. No.	Each
Single Cell Holder, Peltier	222-238100	**14-386-461**	2181.46

Thermo Scientific™ Evolution™ 260 Spectrophotometer

Designed for reliable, high-quality performance and customer usability

Designed with research, routine analysis and core laboratory facilities in mind.

14-380-424

Life Science Applications

- Nucleic Acid concentration by direct UV measurement at 260nm including DNA, ssDNA, RNA and siRNA
- Nucleic acid purity measurements from 260/280nm and 260/230 ratios
- Protein analysis by direct UV measurement at 205 or 280nm
- Measuring the fluorescence labeling efficiency for proteins and nucleic acids
- Oligo calculator tool for calculating nucleic acid properties

Analyzer mode

- Create a dedicated workflow program to guide technicians through even the most complex assays with the touch of a button
- Customized User Environment software (CUE) uses simple, step-by-step tools to program analyses for future use
- Program allows user to format screen displayed with method when it is executed

Double Beam Geometry

- Taking the ratio of the sample to the reference beam at each data point negates the effects of changing samples—especially useful for kinetics, long-term process monitoring and difficult samples

Focused Beam Optical Design

- Allows more than 80% of the light beam to pass through the 2 × 2mm aperture of a 40µL microcell
- Provides maximum light throughput for use with fiber optic accessories and microcells from 40 to 500µL without the need for masked cell holders or cuvets

Mono Drive

- Delivers fast scanning data collection and wavelength accuracy

Xenon Flash Lamp

- Low cost of ownership, longer time between maintenance cycles, high intensity in the UV and visible regions of the spectrum
- Xenon lamps require no warm-up time for instant measurements

Description	Mfr. No.	Cat. No.	Each
Evolution 260 PC Spectrophotometer	840-211000	**14-380-424**	8909.50
Evolution 260 LC Spectrophotometer	840-210900	**14-380-425**	9630.50

Trigger Connections

- Electronic triggering provides the highest level of accuracy for rapid-mixing kinetics measurements

System Validation

- The UV Validator streamlines Installation Qualification (IQ), Operational Qualification (OQ) and performance Qualification (PQ) procedures

Security Software

- If your laboratory requires 21 CFR Part 11 compliance, INSIGHT security software is here to make your life easier

Specifications	
Bandwidth	Variable: 1nm; 2nm; AFBG Microcell optimized; AFBG Fiber optic optimized; AFBG Materials optimized
Optical Design	Double Beam with sample and reference cuvet positions; Application Focused Beam Geometry; Czerny-Turner Monochromator
Light Source	Xenon flash lamp, 3-year warranty (Typical lifetime: 5 years)
Detector	Dual Silicon Photodiodes
Wavelength	
Range	190 to 1100nm
Accuracy	±0.8nm (full range 190 to 1100nm)
Scanning Speed	<1 to 6000nm/min; variable
Photometric	
Range	>3.5A
Accuracy	0.5A: ±0.004A 1A: ±0.006A 2A: ±0.010A Measured at 440nm using neutral density filters traceable to NIST™/NPL
UV Accuracy	0.5A: ±0.004A; 1A: ±0.006A; 2A: ±0.010A (Measured at 440nm using neutral density filters traceabel to NIST™/NPL
Noise	0A: ≤0.00015 A 1A: ≤0.00050 A 2A: ≤0.00080 A RMS 260nm, 1nm SBW, RMS

Thermo Scientific™ BioMate™ 3S Spectrophotometer

Provides convenient, accurate UV-Vis measurements for life science laboratories

A highly configurable instrument, adaptable to the needs of the lab. Accessories add convenience and provide Peltier temperature control, automation and fiber optic sampling.

Hardware Designed for Performance

- 1.8nm spectral bandwidth is compliant with worldwide Pharmacopeia requirements, allowing research quality measurements
- Patented optical design provides a compact, high-performance dual-beam system with very few moving parts
- Xenon lamp gives balanced light over the full wavelength range
- Dual-beam optical system includes an internal reference detector and offers significant advantages over a single beam or diode array instruments, including compensation for lamp intensity changes, better performance for kinetics and better long-term stability

Software Enhanced Flexibility

- Embedded software provides pre-programmed assays for RNA/DNA concentration or purity estimation, protein concentrations, cell growth, kinetics or routine measurements
- For more intense applications, optional software programs allow more sophisticated data collection, analysis and reporting

14-386-503

Contd. on the next page.

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ BioMate™ 3S Spectrophotometer, Contd.

Time-Saving Bioanalysis Software

- Built-in assays for nucleic acid concentration and purity estimations, protein concentration and cell growth at 600nm
- Flexible Oligo calculator feature for calculating molecular weight, theoretical Tm and Oligo concentration factor
- Other standard applications include single and multicell kinetics, wavelength scanning and fixed wavelength measurements

BioMate 3S

- Unit is ideal for DNA/RNA and protein analysis
- Optional built-in 3" (7.6cm) graphical printer
- Optional automatic six-position cell holder speeds up cell growth measurements or standard curve preparations

Pre-programmed life science assays include:

- Nucleic acid ratio and concentration (260/280 and 260/230)
- Direct protein concentration at 280nm and 205nm
- Coomassie™/Bradford (Standard and Micro)
- Lowry
- BCA
- Pierce Micro-BCA
- Pierce 660nm Protein Assay
- Cell growth (with scaling factor)
- Kinetics

WARRANTY: One year on instrument; lamp is warranted for three years of continuous use.

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Six-Position Cell Holder Model	100–240V 50/60Hz, US	840208300	**14-386-503**	5600.00
Six-Position Cell Holder Model w/printer	100–240V 50/60Hz, US	840208400	**14-386-504**	6000.00

Specifications	
Optics	Split-beam, quartz-coated optics
Lamp	Long-life xenon
Wavelength Range	190–1100nm
Wavelength Accuracy	±1.0nm
Bandwidth	5nm
LCD	Large 3.50 × 2.50" (8.9 × 6.4cm), shows all data and final results
Noise	<0.001A
Scan Speed	Survey scan (100nm increments)
RS-232-C Interface	Bidirectional RS-232-C
Stability	<0.001A/hr.
Stray Light	<0.1%T at 220 and 340nm
Dimensions	16 × 13 × 9" (41.0 × 33.0 × 23.0cm)
Weight	19 lb. (8.6kg)

Thermo Scientific™ Evolution™ 60S UV-Visible Spectrophotometer

From the technician to the research scientist, the Evolution 60S offers the ideal solution delivering power and flexibility in a compact package

Efficient optical design delivers a new level of clarity to your measurements.

Evolution 60S w/printer

Maximum Performance, Compact Design

- Acquire accurate spectra with scan speeds up to 4200nm/min.
- Dual-beam optics for superior photometric accuracy
- Acquire measurements from the UV to the near-IR
- Choose either a local instrument or a computer-controlled model
- Increase sample throughput with the integrated 6-cell changer; save data to a USB memory device
- Rely on accurate data with pre-programmed performance verification methods; save bench space with small footprint
- Accessories are available for every type of sample, customize to fit your laboratory needs

Maintenance-Free Lamp

- Save time with the instant-on xenon flash lamp
- Perform accurate analysis over the entire wavelength range of 190-1100nm
- Prevent damage to sensitive samples – does not continuously expose sample to intense UV light
- Lamp guaranteed for three years of continuous use
- Xenon lamp produces no heat – sample compartment temperature does not change

Description	Mfr. No.	Cat. No.	Each
Evolution 60S w/local control	840-208500	**14-386-510**	6070.00
Evolution 60S w/local control and printer	840-208600	**14-386-511**	6570.00
Evolution 60S w/PC control†	840-208700	**14-386-512**	5810.00

†Requires Visionlite™ 5 software (Mfr. No. 834-091300) for operation.

Specifications	
Optical Design	Dual Beam – Internal Reference Detector
Spectral Bandwidth	1.0nm
Light Source (Typical Lifetime)	Xenon Flash Lamp (5 years typical; 3 years guaranteed)
Detectors	Dual Silicon Photodiodes
Wavelength Range	190-1100nm
Photometric Linear Range	>3.5 A
Stray Light	<0.08%T at 220, 340nm (NaI, $NaNO_2$) <1.0%T 198-200nm (KCl)
Resolution (Toluene in Hexane)	>1.5
Display	Graphical with LCD backlight 3.8 × 2.8" (9.7 × 7.1cm)
Keypad	Sealed Membrane with tactile response keys
Printer (optional)	40 column Internal (text and graphics) External USB printer (HP PCL 3.0 and greater)
Connectivity	USB
Dimensions	11.8W × 15.7D × 9.8"H (30 × 40 × 25cm)
Weight	19 lb. (8.6kg)
Power Requirements	Selected Automatically 100–240V; 50/60Hz

Color Measuring Instruments

Lovibond™ PFXi-880 Series Spectrophotometers

With RCMSi technology (Remote Calibration & Maintenance Service) for remote calibration and servicing via internet without leaving benchtop

09-534-850

- Automatic and non-subjective color measurement
- Rugged, chemically resistant, steel construction
- Removable, 6" (153mm) sample chamber
- Can handle hot samples with high melting points
- Output conforms to GLP including date, time, sample and user ID
- Available with optional integrated heater unit for samples like fats or waxes whose temperature needs to be maintained above melting point consistently
- With choice of color scales
- Supplied with color control software for data analysis
- Remote upgrade capability

PFXi-880/CIE

- For transparent samples
- Color scales: CIE L™a™b, CIELAB (L™C™h), Delta E™ color difference, Spectral data, xyY chromaticity coordinates, XYZ tristimulus values, Acid Wash Test (ASTM D848), Optical density (Absorbance)

PFXi-880/S

- For sugar syrups and solutions
- Color scales: CIE L™a™b, Delta E™ color difference, ICUMSA Color Index (ICUMSA GS1-7, ICUMSA GS2/3-9), RYBN Color, Spectral data, xyY chromaticity coordinates, XYZ tristimulus values, Optical density (Absorbance)

APPLICATIONS: PFXi-880/CIE: Chemicals, Edible Oils and Fats, Coatings, Water and Waste Waters, Food and Beverages, Household Products, Petroleum Oils and Waxes, Plastics, Sugar Solutions, Syrups and Honey, Pharmaceuticals and Cosmetics, Beers, Malts and Caramels, Medical and Clinical. PFXi-880/S: Sugar Solutions, Syrups and Honey.

INCLUDES: Instrument, Windows compatible software, spare lamp, instructions, RCMSi starter Pack and Lovibond optical glass cells

Description	Mfr. No.	Cat. No.	Each
Model Series: PFXi-880/CIE			
With integrated heater unit	1378805H	**09-534-850**	16,393.55
Model Series: PFXi-880/S			
Without integrated heater unit	1378806	**09-534-851**	10,600.80
With integrated heater unit	1378806H	**09-534-852**	12,515.06

Lovibond™ RT300 Series Portable Spectrophotometers

Provide absolute and difference measurements in various colorimetric systems

This instrument is designed to give fast, precise and accurate color measurement information on a range of products. Can be combined with the OnColor™ software package allowing measurement data to be downloaded, analyzed in detail and stored indefinitely on a PC.

09-053-603

- Optical geometry: 0°/45°
- Illuminants: C, D50, D65, D75, A, F2, F7, F11, F12
- Standard observers: 2°, 10°
- Storage: 1024 standards; 2000 samples
- Display: in-built graphic LCD
- Color scales: CIE 94, CIE L™a™b, CMC Tolerancing, Hunter Lab, CIELAB (L™C™h), Whiteness Index (ASTM E 313), xyY chromaticity co-ordinates, XYZ tristimulus values, Metamerism index
- Repeatability: 0.10 DE™ab on white ceramic
- Additional feature: interface to RT Color Software

APPLICATIONS:
RT300: Coatings, food and beverages, household products, plastics, pharmaceuticals and cosmetics

Model	Aperture	Target Window	Mfr. No.	Cat. No.	Each
RT300	7mm	9mm	400300	**09-053-603**	10,796.80

ON THE WEB...

Looking for more Lovibond™ color measuring instruments?
Additional models and accessories are available online.

Visit www.fishersci.com and search for Lovibond™

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Lovibond™ RT400 Portable Spectrophotometers

Provide fast, precise and accurate color measurement information on a range of products

09-053-602

This versatile instrument provide absolute and difference measurements in various colorimetric systems. Can be combined with the OnColor™ software package allowing measurement data to be downloaded, analyzed in detail and stored indefinitely on a PC.

- Optical geometry: diffuse/8°, DRS spectral engine
- Illuminants: C, D50, D65, D75, A, F2, F7, F11, F12
- Standard Observers: 2° , 10°
- Measurement area: 8mm aperture/13mm target window
- Repeatability: 0.10 DE™ab on white ceramic
- Storage: 1024 standards; 2000 samples
- Display: in-built graphic LCD
- Color Scales: CIE 94, CIE L™a™b, CIELAB (L™C™h), CMC Tolerancing, Whiteness Index (ASTM E 313), xyY chromaticity co-ordinates, XYZ tristimulus values, Yellowness Index (ASTM E 313), Metamerism index

APPLICATIONS: Coatings, Food and Beverages, Household Products, Plastics, Textiles, Pharmaceuticals and Cosmetics

Description	Mfr. No.	Cat. No.	Each
RT400 portable spectrophotometer	400400	**09-053-602**	7517.00

Lovibond™ RT600 Compact Benchtop Spectrophotometers

Provides fast, precise and accurate color measurement information on a range of products

09-053-600

High performance instrument with consistent readings. This can be combined with the OnColor™ software package so that measurements can be downloaded, analyzed in detail and stored indefinitely on a PC.

- Optical geometry: 0°/45°
- Removable sample holder to measure large samples and for previewing sample area
- Light source: gas filled tungsten
- Rugged construction
- Minimum footprint
- Built-in white calibration reference
- Provide absolute and difference measurements in different colorimetric systems
- Color Scales: CIE 94, CIE L™a™b, CMC Tolerancing, Hunter Lab, CIELAB (L™C™h), Whiteness Index (ASTM E 313), xyY chromaticity co-ordinates, XYZ tristimulus values, Yellowness Index (ASTM E 313), Metamerism index

APPLICATIONS:
Pharmaceuticals, Cosmetics

Description	Mfr No.	Cat. No.	Each
Optical geometry: 0°/45°	406000	**09-053-600**	9565.10

Lovibond™ RT700 Compact Benchtop Spectrophotometers

High performance instrument with fast, accurate and consistent readings

09-053-601

The instrument provides precise color measurement information on a range of products. This can be combined with the OnColor™ software package so that measurements can be downloaded, analyzed in detail and stored indefinitely on a PC.

- Optical geometry: diffuse/8° sphere
- Removable sample holder to measure large samples and for previewing sample area
- Light source: gas filled tungsten
- Rugged construction
- Minimum footprint
- Built-in white calibration reference
- Provide absolute and difference measurements in different colorimetric systems
- Color Scales: CIE 94, CIE L™a™b, CMC Tolerancing, Hunter Lab, CIELAB (L™C™h), Whiteness Index (ASTM E 313), xyY chromaticity co-ordinates, XYZ tristimulus values, Yellowness Index (ASTM E 313), Metamerism index

APPLICATIONS:
Textiles, Pharmaceuticals and Cosmetics

Description	Mfr No.	Cat. No.	Each
RT700 benchtop spectrophotometer; Optical geometry: diffuse/8° sphere	407000	**09-053-601**	9565.10

Lovibond™ RT850i Compact Benchtop Spectrophotometers

For fast, precise and accurate color measurement information on a range of products

09-053-604

This instrument can be combined with the OnColor™ software package through which measurements can be downloaded, analyzed in detail and stored indefinitely on a PC.

- Tri-beam technology
- Video preview for accuracy and targeting
- Status panel display
- Dampened sample arm holder
- Optical geometry: available in diffuse/8° sphere or 0°/45°
- Provide absolute and difference measurements in various colorimetric systems
- Color Scales: CIE 94, CIE L™ u™ v™ Color Space, CIE L™a™b, CMC Tolerancing, Hunter Lab, CIELAB (L™C™h), xyY chromaticity co-ordinates, XYZ tristimulus values, Metamerism index

APPLICATIONS:
Food and Beverages, Household Products, Plastics, Textiles

Description	Mfr. No.	Cat. No.	Each
RT850i benchtop spectrophotometer	408000	**09-053-604**	24,591.70

Lovibond™ PFXi-195 Colorimeters

Accurate, efficient automatic colorimeters for objective color measurement of transparent liquids

PFXi Spectrocolorimeter

The Lovibond PFXi-195 is a robust color measurement instrument for optically clear samples that meets the demand for consistent and reliable color data. It removes all subjectivity involved in color grading, supplying unbiased readings that are unaffected by operator or environment. Automatically measures color and displays the results directly, either according to the traditional grading scales that have been widely adopted as industry standards for color assessment and control, or in terms of internationally recognized CIE values and spectral data.

- Automatic and nonsubjective color measurement
- Consistent data compliant with international standards
- Very rugged, chemically resistant, steel construction
- Easy maintenance with removable sample chamber
- Ability to handle hot samples with high melting points
- Extensive and flexible choice of color scales
- Remote upgrade capability
- Calculation and description of off-hue status
- Supplied with color control software for data analysis
- Conformance standard, cells and spare bulb included
- Output conforming to GLP including date, time, sample and user ID
- Accommodates a wide range of sample cells and tubes
- Available with integrated RCMSi technology for remote calibration
- Thermal printer and other accessories are available

PFXi-195/1: Liquid Chemicals and Industrial Oils

- Color scales: Pt-Co/Hazen/APHA, Gardner, Iodine, CIE values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-195/1 Colorimeter w/ RCMSi Calibration	1371951	**09-053-390**	9770.00

PFXi-195/2: Petroleum Oils and Fuels

- Color scales: Saybolt, ASTM Color, Pt-Co/Hazen/APHA, CIE Values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-195/2 Colorimeter w/ RCMSi Calibration	1371952	**09-053-391**	10,294.42

PFXi-195/5: Pharmaceutical Solutions

- Color scales: European Pharmacopoeia (includes automatic selection of color series), US Pharmacopoeia, Pt-Co/Hazen/APHA, CIE Values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-195/5 Colorimeter w/ RCMSi Calibration	1371955	**09-053-394**	10,294.42

Lovibond™ PFX and PFXi Colorimeters

High-precision, automatic spectrophotometer for objective color measurement

Accurate, highly efficient spectrophotometers for optically clear samples that meet the demand for consistent and reliable color data for a wide range of samples. The long path-length cell chamber also allows the measurement of extremely unsaturated light samples and also color scales which are defined with long path lengths including the Lovibond RYBN and AOCS Tintometer™ color. The instruments remove all subjectivity involved in color grading, supplying unbiased readings that are unaffected by operator or environment.

- Available with integrated RCMSi technology for remote calibration
- Automatic and non-subjective color measurement
- Consistent data compliant with international standards
- Rugged, chemically resistant, steel construction
- Easy maintenance with removable sample chamber
- Ability to handle hot samples with high melting points
- Extensive and flexible choice of color scales
- Remote upgrade capability
- Calculation and description of off-hue status
- Supplied with color control software for data analysis
- Conformance standard, cells and spare bulb included
- Output conforming to GLP including date, time, sample and user ID
- Accommodates a wide range of sample cells and tubes
- Wide range of accessories is available (e.g. thermal printer)
- Optional integrated heater unit, up to 95°C

COMPLIANCE: Complies with AOCS, ISO and ASTM standards.

PFX-880/AT: Mineral Oils, Waxes and Petrochemicals

- Color Scales: AOCS-Tintometer Color, CIE Values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-880/AT Colorimeter w/ RCMSi Calibration	1378802	**09-053-405**	13,829.87
PFXi-880/AT Colorimeter; RCMSi Calibration, Heated	1378802H	**09-053-406**	15,760.00

PFXi-950/P: Petroleum Oils and Waxes

- Color Scales: Saybolt Color, ASTM (D1500) Color, Pt-Co/Hazen/APHA Color, CIE Values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-950/P Colorimeter w/ RCMSi Calibration	1379502	**09-053-415**	15,416.63
PFXi-950/P Colorimeter, RCMSi Calibration, Heated	1379502H	**09-053-416**	17,341.39

PFXi-995: Oils, Chemicals and Derivatives

- Color Scales: Lovibond RYBN, AOCS-Tintometer, Gardner, Pt-Co/Hazen/APHA, FAC, Chlorophyll A and B, beta Carotene, Iodine, Hess-Ives Color Units, Klett (blue filter KS-42), Kreis Value (rancidity), CIE Values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-995 Colorimeter w/ RCMSi Calibration	1379951	**09-053-399**	21,373.07
PFXi-995 Colorimeter; RCMSi Calibration; Heated	1379951H	**09-053-400**	23,310.00

PFXi-995/P: Petroleum Oils and Waxes

- Color Scales: Saybolt Color, ASTM Color, Pt-Co/Hazen/APHA Color, Gardner ASTM D1544 Color, Lovibond RYBN, IP Units, CIE Values, Spectral Data

Description	Mfr. No.	Cat. No.	Each
PFXi-995/P Colorimeter w/ RCMSi Calibration	1379952	**09-053-417**	19,994.94

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Lovibond™ RT500 Series Portable Spectrophotometers

Designed to give fast, precise and accurate color measurement information on various colorimetric systems

These instruments can be combined with OnColor™ software package allowing measurement data to be downloaded, analyzed in detail and stored indefinitely on a PC.

RT500 Portable Spectrophotometer

- Optical geometry: diffuse/8°, DRS spectral engine
- Illuminants: C, D50, D65, D75, A, F2, F7, F11, F12
- Standard observers: 2°, 10°
- Repeatability: 0.05 DE™ab on white ceramic
- Storage: 1024 standards; 2000 samples
- Display: in-built graphic LCD
- Color scales: CIE 94, CIE L™a™b, CMC Tolerancing, Hunter Lab, CIELAB (L™C™h), Whiteness Index (ASTM E 313), xyY chromaticity co-ordinates, XYZ tristimulus values, Yellowness Index (ASTM E 313), Metamerism index

APPLICATIONS:
Coatings, Food & Beverages, Household Products, Plastics, Textiles, Pharmaceuticals & Cosmetics

Model	Aperture	Target Window	Mfr. No.	Cat. No.	Each
RT500	8mm	13mm	400500	**09-053-653**	13,663.70

ON THE WEB...

Looking for more Spectrophotometers?

Visit www.fishersci.com/spectroscopy Spectrophotometers

Lovibond™ LC 100 Hand-Held Imaging Spectrophotometer

Creates conformance reports in either PDF or Excel™ formats that can easily be shared with PC or compatible printer

Each measurement combines 27 images illuminated with different colors and from different directions

09-053-534

- Enables preview of measurement area and storage and recall of image after measurement
- Measures and stores up to 20 reference standards with each date and time stamped with option to name
- Stores up to 350 sample measurements on device and compares to reference standards
- Samples can be tagged via on-screen keyboard for text or via built in voice recorder
- For indoor use only

LC 100 and SV 100 Integrated Kit

- Contents: spectrophotometer, holder, sample cells, USB cord, carrying case

APPLICATIONS:
Food and Beverages, Textile, Chemicals, Pharmaceutical and Cosmetics, Medical and Clinical

Specifications	
Optical Geometry	45°/0° image capture
Light Source	Independent tri-directional 25 LED (8 visible, 1 UV)
Illuminant/Observer	D65&A(10)
Standards/Sample Storage	20/350
Measurement Time	1.8 sec.
Measuring Area	4 and 8mm
Short Term Repeatability	Typical 0.10 ΔE 94 on white (D65/10)
Display	4.5cm Colour TFT
Data Interface	USB (Mass Storage Device)
Operating Temperature	50° to 104° F (0° to 40°C)
Storage Temperature	-4° to 140° F (-20° to 60°C)
Humidity Range	20 to 80% RH (non-condensing)
Altitude	2000m
Polution Degree	2
Transient Overvoltage	Category 2

Description	Mfr. No.	Cat. No.	Each
LC 100 spectrophotometer and SV 100 holder integrated kit	401120	**09-053-534**	4289.30

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Visible

Thermo Scientific™ GENESYS™ 20 Visible Spectrophotometer

Ideal for teaching labs, industrial QC or environmental testing

Multiple purpose capabilities allow you to measure a wide range of analytes.

Precise and Reliable

- Compact footprint provides a space-saving, convenient system
- Intuitive keyboard with integrated controls and LCD display
- Routine measurements require just a few keystrokes
- Direct measurement of routine absorbance or transmittance data
- Concentration mode for single point standard or factor-based quantitative analysis
- Optional holders for test tubes and long path cells to 50mm
- User-selectable choice of five languages (English, French, German, Spanish, Italian)
- Bidirectional RS-232-C interface

Low Cost of Ownership

- Cleanable, chemical-resistant surfaces and rugged design withstands harsh laboratory environments
- Few moving parts; virtually maintenance-free operation
- Choose instrument with or without integral printer

INCLUDES:
10mm cell holder, dust cover and U.S. power cord.

WARRANTY:
One year.

NOTES:
Fisher Service Division offers several types of service agreements for the equipment featured here. For details on these agreements, equipment repairs, and calibration services, see the front of the catalog. For immediate assistance, call 1-800-395-5442.

Description	Electrical Requirements	Mfr. No.	Cat. No.	Each
Without Built-in Printer	120V 50/60Hz (US line cord)	4001-000	**14-385-445**	2211.72
With Built-in Printer	120V 50/60Hz (US line cord)	4004-000	**14-385-459**	2549.25

20 Visible Spectrophotometer

Specifications	
Optical System	Grating based, 1200 lines/mm
Spectral Bandwidth	≤8nm
Wavelength	
Range	325 to 1100nm
Accuracy	±2.0nm
Readout	20-character, 2-line LCD
Photometric	
Readout	Absorbance, %Transmittance, Concentration
Range	-0.1 to +2.5A 0 to 125%T 0 to 1999C
Accuracy†	±0.003A from 0 to 0.3A ±1% from 0.3 to 2.5A
Noise (at 500nm)	≤0.001A at 0A; ±0.004A at 2A
Drift	0.003A/hour
Stray Radiant Energy	≤0.1%T at 340 and 400nm
Communication Ports	RS-232-C (serial) Centronics-compatible (parallel)
Dimensions	13L × 12W × 7"H (33 × 30 × 19cm)
Net Weight	10 lb. (4.5kg)

†Measured using 930D filters supplied by NIST™.

Fisher Scientific moving on Program

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Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ SPECTRONIC™ 200 Spectrophotometer

Rugged, simple instrument for teaching and routine applications

14-385-491

Rugged, Practical Design

- With no internal moving parts, there is nothing to wear out
- Sample compartment lifts out for easy cleaning
- Polymer construction resists corrosion from acidic or oxidizing solutions
- Navigation pad and on-screen menus are second nature to any mobile phone user
- Compact footprint saves lab space
- Cuvet racks on both sides of the sample compartment help you keep track of samples
- Ready to measure: plug in instrument and go; no computer or serial cable required

Advanced Functionality for Routine Measurements

- Large, bright, color LCD adjusts to the perfect angle for any user to view
- Standard sample compartment accommodates both 10mm square cuvets and test tubes up to 1" (25mm) diameter
- Room light resistant optical system allows user to measure tall test tubes with the lid open
- Programmable Analyzer mode
- Supports mathematical manipulation of result data
- Displays the calculated result right on screen
- Saves methods and retrieves them for later use
- Supports methods with up to four factors and wavelengths
- Screen-print feature gives a permanent data record
- Quantitative analysis with either a factor or up to four standards offers confidence and accuracy
- Small footprint, stand-alone system saves bench space
- Low cost to stretch your budget
- Available Thermo Scientific VISIONlite™ software for your computer controls the instrument and provides data manipulation, storage and report printing options

Use Existing Protocols

- Whether you are equipping a whole laboratory or adding to your existing instrument set, the SPECTRONIC 200 spectrophotometer smoothes the transition from old to new technology
- The SPECTRONIC 200 onboard software includes full emulation of SPECTRONIC 20 and Thermo Scientific GENESYS 20 control sets so you can continue using your current laboratory protocols and instruction sets
- VISIONlite5 software — Volume pricing begins at eight copies and is available on request.

Description	Mfr. No.	Cat. No.	Each
SPECTRONIC 200 Spectrophotometer	222-265700	**14-385-491**	2050.00

Specifications	
Optical Design	Single Beam
Spectral Bandwidth	≤ 4nm
Light Source	Tungsten-halogen
Detector	2048 element CCD
Wavelength	
Range	340nm - 1000nm
Accuracy	±2nm
Repeatability	±1nm
Data interval	1nm
Photometric	
Range	-0.3 A to 2.5 A
Readout	ABS, %T, Concentration
Accuracy	±0.01A at 0.3A ±0.05A at 1.0A (SPECTRONIC standard filters measured at 590nm)
Repeatability	±0.3%T at 50%T
Stray Light	<0.2%T (with SPECTRONIC standard SRM 400 filter)
Display	Variable angle 320 x 240 pixel color graphical LCD 2.75" × 2", 3.4" diagonal (7 × 5cm, 8.6cm diagonal)
Keypad	Sealed tactile rubber
Standard Features	
Sample compartment	Lifts out for cleaning
Cuvet racks and compartments	2 included with dedicated compartments
Included cuvets	1cm plastic (quantity 10)
Standard Interfaces	USB-B for connection to a remote computer USB-A for connection to a printer or USB memory device
Languages	On-board software in English, Spanish, French, German and Italian
Power Requirements	100–240V, 50/60Hz (selected automatically)
Dimensions	15.3W × 11.8D × 3.6"H (39 × 30 × 16cm)
Weight	9.7 lb. (4.4kg)

THINK GREEN

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

Biospectrophotometers

Thermo Scientific™ NanoDrop™ 8000 Spectrophotometer

Processes up to eight micro-volume (1µL) samples at a time

The NanoDrop 8000 allows scientists to quickly and easily quantify and assess purity of samples such as proteins and nucleic acids. Using an 8-channel pipetter to dispense samples onto an array of pedestals, analyze 96 samples in less than six minutes.

ND-8000

Key Features and Benefits

- Designed for micro-volume (1µL) samples
- No dilutions required, even for high concentration samples
- Direct, easy measurements from tubes or 96-well plates
- Can measure multiple samples in one measurement cycle, up to eight samples at one time
- Single sample mode
- Preconfigured methods for common applications such as Nucleic Acid, Protein A280, Microarray, Protein and Labels, Pierce 660, Bradford, BCA, Lowry and more
- User-friendly software for creating custom methods and options to design reports and export data
- Patented sample retention system eliminates the need for cuvets
- Full spectrum (220 to 750nm)
- Calculates sample purity ratios (260/280)

APPLICATIONS: Nucleic acid concentration; Microarray; Protein concentration; Spectrophotometry; Cell density

INCLUDES: USB cable and operating software

WARRANTY: One year

CERTIFICATIONS: CE, UL/CSA

Specifications	
Type	Spectrophotometer
Min. Sample Size	1µL
No. of Samples	Up to 8
Pathlength	1 and 0.2mm
Light Source	Xenon flash
Detector Type	2048-element linear silicon CCD
Wavelength Range	220 to 750nm
Wavelength Accuracy	1nm
Wavelength Resolution	3nm (FWHM at Hg 546nm)
Absorbance Precision	0.003 A (1mm path)
Absorbance Accuracy	3% (at .74 A at 350nm)
Absorbance Range	0.05-74 (10mm equivalent abs)
Detection Limit	2.5ng/µL (dsDNA)
Max. Concentration	3700ng/µL (dsDNA)
Measurement Cycle Time	<20 sec. (for 8 samples)
L x W	24 × 32cm
Operating Voltage	12V DC
Power Consumption	30w (6w standby power)
Weight	7.5 lb. (3.4kg)

Description	Mfr. No.	Cat. No.	Each
NanoDrop 8000	ND-8000	**ND-8000**	25,450.00
NanoDrop 8000 packaged with laptop computer	ND8000LAPTOP	**13-400-413**	26,450.00

Thermo Scientific™ NanoDrop™ Lite Spectrophotometer

A compact microvolume instrument with the accuracy and convenience of the NanoDrop

The NanoDrop Lite performs basic microvolume measurements. Its compact design, with built-in controls and software, make the NanoDrop Lite small enough to fit on any benchtop. The patented sample retention system allow sample to be pipetted directly onto the optical measurement surface. After measurement the sample is wiped off the measurement surface with a lint free lab wipe.

NDNDLUSCAN

- Measures nucleic acid concentration at 260nm and purity using the 260/280 ratio
- Measures purified protein concentration at 280nm
- Employs the unique NanoDrop microvolume sampling technology
- Delivers the accuracy and reproducibility expected from NanoDrop instruments
- Uses built-in controls and software — no computer required
- Offers an optional printer for cryogenic labels

WARRANTY: One year

CERTIFICATIONS: UL/CSA and CE

Specifications	
Instrument Control	Local control
Minimum Sample Size	1µL
Sample Number	1
Pathlength	0.5mm
Light Source	Light emitting diodes
Detector Type	Silicon photodiode
Wavelength Range	260 and 280nm
Spectral Resolution	< 8.0nm
Typical Measurement Reproducibility	0.002†
Absorbance Accuracy	3% (at 1.05Abs at 260nm)‡
Absorbance Range (10mm equivalent)	0 to 30Abs
Lower Limit of Detection	4ng/µL (dsDNA) 0.12mg/mL (BSA)
Maximum Concentration	1500ng/µL (dsDNA) 45mg/mL (BSA)
Measurement Time	<5 seconds
Footprint	16 × 11.5cm
Weight	0.8kg
Sample Pedestal Material of Construction	303 stainless steel and quartz fiber
Operating Voltage	6V (DC)
Operating Power Consumption	18w
Standby Power Consumption	< 2.5w
Software Compatibility	Local control only

†SD of 10 individual measurements at 0.74Abs

‡Absorbance expressed at Abs/mm measured at 25°C

Description	Mfr. No.	Cat. No.	Each
NanoDrop Lite Spectrophotometer	ND-NDL-US-CAN	**NDNDLUSCAN**	5475.80
NanoDrop Lite Spectrophotometer with Printer	ND-NDL-PR-US-CAN	**NDNDLPRUSCA**	5847.60

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ NanoDrop™ 2000/2000c Spectrophotometers

Full-spectrum, UV-Vis spectrophotometers used to quantify and assess purity of samples such as nucleic acids and proteins

NanoDrop™ 2000/2000c Spectrophotometers

The patented sample retention system of the NanoDrop 2000 and 2000c spectrophotometers allow a sample to be pipetted directly onto an optical measurement surface. Once the measurement is complete, the surfaces are simply wiped with a lint-free lab wipe. The NanoDrop 2000c integrates the sample retention system with cuvet capability.

NanoDrop 2000

- Micro-volume sample size (0.5-2.0µL)
- Easy to use — pipet sample directly onto the pedestal
- No dilutions required, even for highly concentrated samples
- Fast measurement time of less than 5 seconds
- Full spectral output
- Preconfigured methods for A260, A280, labeled DNA or Proteins and much more
- User-friendly software that includes custom methods and data export capabilities

NanoDrop 2000c

- Combines all features of the NanoDrop 2000 with cuvet capability in one instrument
- Advanced micro-volume pedestal technology
- Dual modes — choose cuvet or pedestal
- Broader concentration range for measuring very low or very high concentrations
- Cuvet capability allows for kinetics (time or time/temperature studies) and cell culture (OD 600) measurements

NanoDrop 2000c — Cuvet:

- Heating: 37°C, ±0.5°C
- Stirring: 150 to 850rpm
- Z-Height: 8.5mm
- Cuvet dimensions: 12.5 × 12.5mm, up to 48mmH
- Path Length: 10, 5, 2 and 1mm
- Type: Masked cuvet
- Absorbance Range: 0.008 to 1.5
- Measurement Time: <3 sec.
- Weight: 2.1kg

WARRANTY:
One year

CERTIFICATIONS:
UL/CSA and CE

Description	Volts	Mfr. No.	Cat. No.	Each
NanoDrop 2000	12V DC	ND-2000	**ND-2000**	9857.10
NanoDrop 2000 packaged with laptop computer	----	ND2000LAPTOP	**13-400-411**	10,890.00
NanoDrop 2000C with cuvette capability	12V DC	ND-2000C	**ND-2000C**	11,639.00
NanoDrop 2000C packaged with laptop computer		ND2000CLAPTOP	**13-400-412**	12,670.00

Cells and Cuvets

Brand™ UV-Cuvette Disposable Cuvets from BrandTech™

An excellent alternative to quartz cuvets for molecular biology applications, these UV-transparent plastic cuvets provide transparency from 220 to 900nm

13-878-121

Advanced cuvet design includes recessed windows to protect against scratching in the optical pathway.

- Disposable; cleaning and cross-contamination risk are eliminated
- Ideal for DNA, RNA and protein analysis
- Chemical resistant; can be used with most polar organic solvents, acids and bases
- Also compatible with acetone, butanone, DMF and concentrated hydrochloric acid
- Grouped by manufacturing mold cavity to ensure lowest variation in extinction coefficient
- Fits most spectrophotometers without adapters

Ultramicro size

- Available with 8.5 and 15mm window heights (Z-dimension)
- May be used with sample volumes as small as 70µL
- Can be fitted with plug seal caps (sold separately) for sample storage
- Available individually wrapped, DNA-, RNase-free

Semimicro size

- For sample volumes between 1.5 and 3.0mL
- Available individually wrapped, DNA-, RNase-free

Macro size

- Holds 2.5 to 4.5mL

Specifications

Style	Macro	Semimicro	Ultramicro
Window Dimensions (W × H)	10 × 35mm	4.5 × 23mm	2 × 3.5mm (minimum)
Wavelength Range	220 to 900nm	220 to 900nm	220 to 900nm
Standard Deviation (Extinction Units)	220 to 260nm <±0.007	220 to 260nm <±0.007	220 to 260nm <±0.007
	260 to 900nm <±0.002	260 to 900nm <±0.002	260 to 900nm <±0.002
Minimum Volume	2.5mL	1.5mL	70µL
Maximum Volume	4.5mL	3mL	8mm window: 850µL 15mm window: 550µL
Lightpath	10mm	10mm	10mm

Cuvet Style	Mfr. No.	Cat. No.	Pack of
Macro	759170	**14-377-009**	100/102.75
Semimicro	759150	**13-688-74**	100/110.80
Semimicro	759165	**13-688-73**	500/463.10
Ultramicro (8.5mm window height)†	759200	**13878121**	100/102.75
Ultramicro (8.5mm window height)†	759210	**13-878-122**	500/459.02
Ultramicro (8.5mm window height)‡	759215	**03-840-300**	100/156.00
Ultramicro (15mm window height)†	759220	**13878123**	100/103.16
Ultramicro (15mm window height)†	759230	**13-878-124**	500/460.04
Ultramicro (15mm window height)‡	759235	**03-840-301**	100/159.90

†Bulk packaged
‡Individually wrapped

Fisherbrand® Quartz Fluorescence Cells

With optically polished sides and bottom

INCLUDES:
Fitted PTFE covers or tapered PTFE stoppers

14-385-918A

Lightpath	Capacity	Height	With	Cat. No.	Pack of
With Suprasil™ quartz windows					
10mm	3.0mL	45mm	PTFE cover	**14-385-918A**	2/708.50
10mm	3.0mL	45mm	PTFE cover	**14-385-920A**	4/1387.00
10mm	3.0mL	46mm	PTFE stopper	**14-385-918B**	2/896.50

Fisherbrand® Quartz, Silica and Glass Standard Cells

Available with a variety of window materials for wide range of assays

INCLUDES:
Fitted PTFE covers or tapered PTFE stoppers, except 14-385-906A and -902A, which come with glass cover plates

14-385-910C

Lightpath	Capacity	Height	With	Cat. No.	Pack of
With Suprasil™ 300 quartz windows					
1mm	0.3mL	45mm	Glass cover	**14-385-906A**	2/630.50
10mm	3.0mL	45mm	PTFE cover	**14-385-906C**	2/537.50
10mm	3.0mL	45mm	PTFE cover	**14-385-908C**	4/1069.00
10mm	3.0mL	46mm	PTFE stopper	**14-385-908D**	4/1525.00
With Suprasil quartz windows					
1mm	0.3mL	45mm	Glass cover	**14-385-902A**	2/506.50
5mm	1.5mL	45mm	PTFE cover	**14-385-902B**	2/499.50
10mm	3.0mL	45mm	PTFE cover	**14-385-902C**	2/437.50
10mm	3.0mL	45mm	PTFE cover	**14-385-904C**	4/868.50
10mm	3.0mL	46mm	PTFE stopper	**14-385-904D**	4/1262.00
With standard silica windows					
10mm	3.0mL	45mm	PTFE cover	**14-385-910C**	2/350.00
10mm	3.0mL	45mm	PTFE cover	**14-385-912C**	4/693.50
With near-UV glass windows					
10mm	3.0mL	45mm	PTFE cover	**14-385-910A**	2/211.50
10mm	3.0mL	45mm	PTFE cover	**14-385-912A**	4/417.00
With optical glass windows					
10mm	3.0mL	45mm	PTFE cover	**14-385-910B**	2/140.80
10mm	3.0mL	45mm	PTFE cover	**14-385-912B**	4/275.50

Fisherbrand® Quartz and Glass Micro Cells

Micro cells with 2mm inside width.

INCLUDES:
Fitted PTFE covers or tapered PTFE stoppers

14-385-927B

Lightpath	Capacity	Height	With	Cat. No.	Pack of 2
With Suprasil™ quartz windows					
10mm	0.5mL	25mm	PTFE cover	**14-385-927B**	456.50
10mm	0.5mL	45mm	PTFE cover	**14-385-928A**	626.50
With Suprasil™ windows and black quartz sidewalls					
10mm	0.5mL	45mm	PTFE cover	**14-385-928B**	970.50

Fisherbrand® Quartz Semimicro Cells

Semimicro cells with 4mm inside width

INCLUDES:
Fitted PTFE covers or tapered PTFE stoppers

14-385-914A

Lightpath	Capacity	Height	With	Cat. No.	Pack of
With Suprasil quartz windows					
10mm	1.0mL	1.77" (45mm)	PTFE cover	**14-385-914A**	2/519.50
10mm	1.0mL	1.77" (45mm)	PTFE cover	**14-385-916A**	4/1033.00
10mm	1.0mL	1.81" (46mm)	PTFE stopper	**14-385-914B**	2/730.00

Fisherbrand® Quartz Ultramicro cells

Available with a variety of window materials for wide range of assays

- 8.5mm center height fits most Beckman™ Instruments and Spectronic™ spectrophotometers
- 15.0mm cells fit most Hewlett-Packard™, Perkin-Elmer™, Shimadzu™, Unicam™ and GBC spectrophotometers
- Choice of correct center height is made such that optical aperture matches center position of light beam

14-385-928E

INCLUDES:
Fitted PTFE covers or tapered PTFE stoppers

Lightpath	Center Height	Capacity	Outside Height	Cat. No.	Each
Self-masking black quartz with SUPRASIL™ windows					
10mm	8.5mm	100µL	45mm	**14-385-928C**	661.50
10mm	15mm	100µL	45mm	**14-385-928D**	661.50
10mm	8.5mm	50µL	45mm	**14-385-928E**	661.50
10mm	15mm	50µL	45mm	**14-385-928F**	661.50
Fluorescence Cells					
10 × 2mm	8.5mm	100µL	45 × 12.5 × 12.5mm (H × W × D)	**14-385-853**	545.00
10 × 2mm	15mm	100µL	45 × 12.5 × 12.5mm (H × W × D)	**14-385-854**	545.00
3 × 3mm	8.5mm	45µL	45 × 12.5 × 12.5mm (H × W × D)	**14-385-855**	569.00
3 × 3mm	15mm	45µL	45 × 12.5 × 12.5mm (H × W × D)	**14-385-856**	569.00
1.5 × 1.5mm	8.5mm	12µL	45 × 12.5 × 12.5mm (H × W × D)	**14-385-857**	605.00
1.5 × 1.5mm	15mm	12µL	45 × 12.5 × 12.5mm (H × W × D)	**14-385-858**	605.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Cylindrical Cells

Fit standard cell holders

Have a filler neck and tapered PTFE stopper (two necks and stoppers on 50 and 100mm cells).

- Uniform diameter of 22mm
- Available with Suprasil™ quartz or near-UV glass windows

14-385-932E

Lightpath	Capacity	No. of Stoppers	Cat. No.	Pack of 2
With Suprasil quartz windows				
10mm	3.1mL	1	**14-385-930C**	573.00
20mm	6.3mL	1	**14-385-930D**	593.50
50mm	16mL	2	**14-385-930E**	789.50
100mm	31mL	2	**14-385-930F**	868.00
With near-UV glass windows				
10mm	3.1mL	1	**14-385-932C**	354.00
20mm	6.3mL	1	**14-385-932D**	394.50
50mm	16mL	2	**14-385-932E**	471.00
100mm	31mL	2	**14-385-932F**	530.50

Fisherbrand® Black Self-Masking Quartz Micro Flow Cells

Choose from two styles

- All cells are 12.5mm square
- Cell chamber is completely surrounded by opaque black quartz, eliminating the need to mask the instrument light beam
- Wavelength range is 190 to 2600nm and 2850 to 3600nm

14-385-926A

Compact Cells

- 35mm high; Two screw connectors (M 6 × 1)
- Flanged FEP tubing (O.D. 1.9mm, I.D. 1.1 × 500mm long)

Standard Cells

- Fused-on inlet and outlet tubes

ORDERING INFORMATION: Select cells with center height appropriate to match the cell aperture center with the center position of the light beam in your spectrophotometer.

Lightpath	Capac.	Outside Height	Center Height	Aperture	Cat. No.	Each
Compact Cells						
0.2mm	12.4µL	35mm	----	17.5 × 3.5mm	**14-385-933C**	1685.00
1.0mm	62µL	35mm	----	17.5 × 3.5mm	**14-385-933E**	1293.55
2.0mm	124µL	35mm	----	17.5 × 3.5mm	**14-385-933F**	1307.00
10mm	390µL	35mm	8.5mm	11 × 3.5mm	**14-385-933J**	990.00
10mm	390µL	35mm	15mm	11 × 3.5mm	**14-385-933K**	956.50
10mm	80µL	35mm	8.5mm	3mm dia.	**14-385-933L**	1021.00
Standard Cells						
10mm	750µL	45mm	15mm	11 × 6.5mm	**14-385-926A**	673.00

Fisherbrand® Quartz SUPRASIL Macro Cells with PTFE Stopper

Absorption cells

- Made of Quartz SUPRASIL; with PTFE Stopper
- 1mm lightpath

Lightpath	Dimensions	Volume	Cat. No.	Each
1mm	52 × 12.5 × 3.5mm (H × W × D)	350µL	**14-385-850**	235.00
5mm	46 × 12.5 × 7.5mm (H × W × D)	1750µL	**14-385-852**	212.50

Fisherbrand® Round Cuvets

For use with commercial colorimeters and spectrophotometers

- Reference mark near top assists repositioning
- Manufactured from borosilicate glass
- Available in case of 36

14-385-900B

For Use With	Dia. × H	Cat. No.	Case of 36
Coleman™ Jr. II	12 × 75mm	**14-385-900A**	261.50
Spectronic™ 20	13 × 100mm	**14-385-900B**	258.00
Coleman Jr. II	19 × 105mm	**14-385-900D**	287.00
Coleman Jr. II	19 × 150mm	**14-385-900E**	287.00

Fisherbrand® Disposable Cuvettes

Select polystyrene cuvets for assays in visible spectral range (340 to 750nm). For accuracy throughout UV/Vis range (285 to 750nm), choose methacrylate cuvets.

14-955-125

- Disposable 10mm pathlength cuvets designed for visible and UV/Vis assays
- Clear four-sided cuvets are ideal for fluorimetry; nephelometry and spectrophotometry
- Scale down assay volumes and save on reagents by using semimicro cuvets
- Molded-in arrow indicates direction of transmission on standard and semimicro cuvets — helping assure uniformity
- Each case contains cuvets with same mold impression number — standard deviation is P±0.005 extinction units between cuvets

ORDERING INFORMATION:

Packaged 100 cuvets per stackable tray; five trays to a case. Outside dimensions: 0.47L × 0.47W × 1.77"H (12 × 12 × 45mm).

Cuvet Style	Material	Lightpath	Capacity	Cat. No.	Case of 500
Standard	Polystyrene	10mm	4.5mL	**14-955-125**	212.52
	Acrylic	10mm	4.5mL	**14-955-126**	233.61
Semimicro	Polystyrene	10mm	1.5mL	**14-955-127**	176.31
	Methacrylate	10mm	1.5mL	**14-955-128**	194.03
Four-Clear-Sided	Polystyrene	10mm	4.5mL	**14-955-129**	233.75
	Methacrylate	10mm	4.5mL	**14-955-130**	256.96

Fisherbrand® Quartz Semimicro Cells

For magnetic stirrers

- Quartz SUPRASIL™ window
- No. windows: 4

14-385-859

Description	Cat. No.	Price
Fluorescence; With stirbar	**14-385-860**	504.50
With stirbar	**14-385-859**	321.00

Sponges

Fisherbrand® Cellulose Sponge

Easy to handle in out-of-the-way corners

- Synthetic cellulose
- Greater uniformity, absorption and wear resistance than natural sponge

ORDERING INFORMATION: Size: 6L × 3.50W × 1"H (15 × 8.9 × 2.5cm)

Cat. No.	Pack of 12
14-417	73.40

14-417

Stationery

Thermo Scientific™ Nalgene™ Deluxe Laboratory Notebook

With regular paper pages; PE cover

Designed for process record keeping. Ideal for securing patent protection in research laboratories.

01-814-19

- Features water-resistant polyethylene cover and 184 high-quality, acid-free, paper pages with 0.25 grid lines
- Permanently bound and paginated for data security and traceability
- Letter-sized 8.5 × 11" (22 × 28cm) pages are permanently bound and sewn
- Pages include place for preparer and witness signatures to aid in securing patent protection
- Overall dimensions: 8.875L × 11.25W × 0.625"H (22.5 × 28.6 × 1.6cm)

Mfr. No.	Cat. No.	Case of 6
6501-1000	01-814-19	255.25

Thermo Scientific™ Nalgene™ Lab Notebooks

With 100 uncoated PolyPaper™ pages, PE cover

Excellent for permanently securing your valuable notes and data in a hardcover case-bound paginated book.

11-900

- Feature case-bound polyethylene hardcover with 100 polyolefin pages that are chemical resistant
- Pages are numbered and printed with spaces for dates and signatures of worker and witness for patent protection
- 9.25 × 11.25" (23 × 29cm) pages are ruled with a fine green 0.25" (6mm) grid to assist for orderly note keeping, drawings and charts
- Accepts ballpoint pen and permanent marking pen
- Permanently bound and paginated for data security and traceability

INCLUDES: Instructions for keeping records, page for issuing book and table of contents.

Cover Color	Mfr. No.	Cat. No.	Each	Case of 6
Black	6300-1000	11-900	112.70	455.50

Thermo Scientific™ Nalgene™ Lab Notebooks

With regular paper pages, PE cover

Feature 96 permanently sewn-in paper pages with either grid or horizontal ruled lines.

11-903 Series

- Spaces for dates, signature of worker and witness for patent protection
- Choose forest green cover with 0.25" (6mm) green grid or burgundy cover with horizontal lines
- Page size: Letter (8.5 × 11") or A4 (8.75 × 11.25")
- Permanently bound and paginated for data security and traceability

INCLUDES: Instructions for keeping records, page for issuing book and table of contents.

NOTES: Pages are not waterproof.

Cover Color	Page Size	Line/Grid Spacing	Mfr. No.	Cat. No.	Each	Case of 6
Forest Green	8.5 ×11"	6mm grid	6301-1000	11-903	47.70	182.30
Burgundy	8.5 × 11"	3 horizontal lines per inch	6301-2000	11-903-1	49.50	190.60
Forest Green	8.75 × 11.25"	5mm grid	6301-3000	11-903-2	54.50	210.00
Burgundy	8.75 × 11.25"	5mm lines	6301-4000	11-903-3	54.50	210.00

ITW Texwipe™ Cleanroom Spiral Notebooks

For note-taking and data recording

19-130-504 Series

- High-density polyethylene covers, plastic spirals and durable TexWrite™ latex-impregnated cleanroom paper
- White, college-ruled pages printed with IPA-resistant, low-sodium ink for reduced ionic contamination
- Notebooks lie flat; pages rotate freely for ease of use
- 100 writable pages (50 sheets)

Size	Mfr. No.	Cat. No.	Each	Case of
3 × 5"	TX5742	19-130-5044	15.19	20/255.00
5.5 × 8.5"	TX5741	19-130-5043	20.05	10/167.60
8½ × 11"	TX5740	19-130-5042	32.90	10/276.50

Fisher Scientific

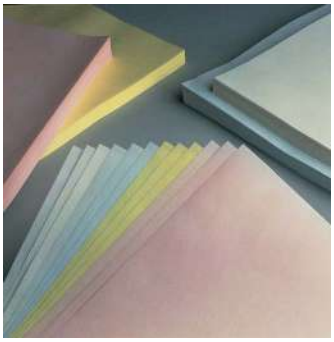
*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ITW Texwipe™ TexWrite™ Cleanroom Bond Paper

High strength, excellent heat resistance

Polymer saturated cleanroom paper reduces particle generation associated with standard paper. Autoclavable for use in sterile environments.



18-344 Series

TexWrite 18 Lightweight Bond

- Economical sheet with low contamination characteristics
- Weight, 18 lb. (70g/m²); case of ten reams (2500 sheets)

TexWrite 22 Bond

- Offers greatly reduced particle and sodium counts
- No inorganic fillers used in the formulation of this paper, making it ideal for semiconductor manufacturing
- Available in a variety of colors
- Weight, 22 lb. (81g/m²); in case of 10 reams (2500 sheets)

TexWrite 30 Heavyweight Opaque Bond

- Specially formulated heavyweight sheet can be printed on both sides
- Offers the same excellent particle control characteristics and heat resistance as TexWrite 22 paper
- Weight: 30 lb. (110g/m²); in case of seven reams (1750 sheets)

ORDERING INFORMATION:
Sheets measure 8.5 × 11". Packaged 250 sheets per ream, shrink-wrapped and packed in a protective polypropylene bag.

Color	Mfr. No.	Cat. No.	Case of
TexWrite 18 Lightweight Bond			
Blue	TX5862	**19-130-1534**	2500/259.50
TexWrite 22 Bond			
Blue	TX5812	**18-344B**	2500/255.00
Yellow	TX5814	**18-344D**	10/329.50
White	TX5815	**18-344E**	2500/268.00
Green	TX5831	**19-003-482**	250/33.80
TexWrite 30 Heavyweight Bond			
White	TX5832	**18-348A**	7/252.00

Micronova™ Labmarkers

With permanent, quick drying black ink that is resistant to IPA

- Fine tip
- Use to mark on cold or wet surfaces, plastic bags or disposable labware
- Will not smear on reusable glass, metal or porcelain labware but can be scrubbed off
- Available in standard or gamma irradiated formats

19-142-678

Format	Mfr. No.	Cat. No.	Case of 10
Standard	PEN-40	**19-142-679**	73.60
Irradiated	PEN-40IR	**19-142-678**	79.40

Fisherbrand® Fine Tip Marking Pens

Quick-drying ink offered in a variety of colors

Designed to write on damp surfaces as easily as they write on dry surfaces. Proven permanent on most surfaces, including plastic, metal and ceramic.

13-379 Series

- Fine tip is excellent for general marking
- Highly resistant to abrasion and water
- Will not smear when subjected to water or alcohol during normal use

Color	Cat. No.	Pack of 10
Black	**13-379-4**	53.04
Red	**13-379-5**	53.04
Blue	**13-379-6**	53.04
Green	**13-379-7**	53.04

ITW Texwipe™ TexWrite™ 10 MP Documentation Paper

100% synthetic sheet

High-performance documentation material designed for ultraclean manufacturing environments that cannot tolerate cellulose contamination.

- Ultraclean with low particle generation and toner shedding
- Excellent ink capture with no risk of smearing
- Low ESD potential for reduced risk of electrostatic damage
- Compatible with inkjet, laser and toner-based printers and photocopiers
- Ballpoint pens glide easily over surface without skips or jumps
- Recyclable as a plastic
- Autoclavable for use in sterile environments

ORDERING INFORMATION:
Sheets measure 8.5 × 11". Packaged 100 sheets per ream, five reams per case.

18-339

Color	Mfr. No.	Cat. No.	Case of 500
White/Blue	TX 5800	**18-339**	347.00

Heidolph North America
Research made easy

Before You Buy **Sterilizers**

Questions to confirm which autoclave will best suit your lab:

- What are you sterilizing?
- How many loads do you need to sterilize a day?
- What space do you have available?
- What electrical do you have available?
- Do you require a printer for documentation?
- Do you have an annual service set up to ensure proper usage?

- A steam sterilizer (autoclave) uses high pressure steam for a specific time to eradicate bio contamination.
- Common applications include sterilization of glassware, culture media, small lab equipment, surgical utensils, clothing and bio hazardous waste.
- Sterilizers are broken into bench top (manual or electronic), vertical and industrial floor standing units.

Heidolph Tuttnauer sterilizers all display the standard operating features and provide an unmatched range of products

- For over 80 years, Heidolph Tuttnauer sterilization and infection control products have been trusted by universities, research institutes, clinic and laboratories throughout the world.
- ASME stamped, 316L grade stainless-steel chamber and internal door ensure safe, durable, long lasting corrosion-resistant environment.
- Accessories are all included with any model you choose — rack, shelves, trays, internal temp probes (varies per model).
- Safety Door cannot be opened while chamber is under pressure.
- 1 year warranty you can depend on!
- 15 year warranty on any chamber.
- UL & CSA approved.

(BENCHTOP) ECONOMICAL ANALOG "M"	(BENCHTOP) AUTOMATED ELECTRONIC "E"	(VERTICAL) FLOOR STANDING "ELV/ELVC"	MOBILE VERTICAL FLOOR STANDING "ELV"	INDUSTRIAL UNITS
1050w–2,400w		2.2 kW–9.0 kW	6.0 kW (Only available in 3870ELV)	
Temp Range of 85° to 134°C		Max temp - 135°C	Max temp - 135°C	70° to 137°C
Sterilize Time Range 0–99 minutes		Sterilize Time Range 0–99 minutes		Flexible
Chamber Volume — 7.5 to 84L		Chamber Volume — 31L to 160L	85L	Chamber Volume — 120L to 950L
Voltage - 115V to 220V		220V	220V	120V & Either 208V or 480V
Analog - Manually change to Fill, Sterilize, Exhaust, and Timer	Set w/ Pre-programmed electronic program for Wrapped, Unwrapped, Glass	Hard line required for tap water, mineral free water and drain (air compressor for ELVC only)	No hard lines required, portable reservoir, on wheels	Require steam generator, air compressor, drain, water supply

Sterilizers

Fisher Scientific™ SterilElite™ Tabletop Autoclaves

Combine compact design with high performance, reliability and safety

STE-1622004 and STE-2422005

Intelligent design for your professional choice.

- Microprocessor control system provides nine fully automatic programs, including add water, sterilization and dry
- Eight pre-installed sterilization cycles
- Two separate water-level check mechanisms: water tank level and chamber water level
- Auto dry function
- Pressure door auto-lock device
- Chamber protected by pressure switch and steam pressure safety valve
- Vacuum/Pressure Release button cuts off the power supply, exhausts the chamber of pressure and releases the chamber vacuum simultaneously

Description	Mfr. No.	Cat. No.	Each
SterilElite16 Autoclave, 120V	STE1622004	**STE-1622004**	6160.00
SterilElite24 Autoclave, 120V	STE2422005	**STE-2422005**	6890.00
SterilElite16 Autoclave, 230V	STE1622008	**STE-1622008**	6160.00
SterilElite24 Autoclave, 230V	STE2422006	**STE-2422006**	6890.00

Specifications	SterilElite16 Autoclave, 120V	SterilElite24 Autoclave, 120V
Water System	Auto Fill	Auto Fill
Dry Function	Auto Dry	Auto Dry
Overall Dimensions	580D × 510W × 410mm H	660D × 540W × 440mm H
Chamber Size	ø230 × 410mm D	ø260 × 450mm D
Water Capacity per Cycle	250mL	300mL
Water Tank Capacity	4200mL	4200mL
Chamber Capacity	16L	24L
Weight	48kg	56kg
Power Supply	115V ± 10%; 50/60Hz	115V ± 10%; 50/60Hz
Warning Indicators	Door Open, Low Water, Overheat	Door Open, Low Water, Overheat
Max. Power Consumption	1400W	1800W
Sterilization Temperature	121°C/135°C	121°C/135°C
Overpressure Protection	Pressure Protection Switch	Pressure Protection Switch
Water Level Sensors	Low Water Level, Chamber Water Level	Low Water Level, Chamber Water Level
Door Lock	Auto Pressure Lock	Auto Pressure Lock
Optional Accessories	Sterilization tray set (3 trays, tray frame, tray holder, spring holder)	Sterilization tray set (3 trays, tray frame, tray holder, spring holder)
Warranty	2 years	2 years

Heidolph™ Tuttnauer™ Benchtop Sterilizers

Compact sterilizers featuring electronic or analog controls that provide a fast, safe and convenient way to sterilize both solids and liquids

02-964 Series

Standard Operating Features

- Self-contained design eliminates external plumbing and hardwiring for easy installation
- ASME-stamped, Type 316 L stainless-steel chamber ensures long-lasting reliability, durability and high-corrosion resistance
- Fast/slow exhaust (fast allows quick cycle time of solids while slow exhaust prevents media and liquid boil-over)
- Closed-door drying system maintains sterility
- Drying cycle removes residual moisture after sterilization
- Continuous pressure purge eliminates air pockets and ensures thorough, even sterilization
- Large-capacity reservoir provides ample water supply to avoid frequent fill-ups
- Water drain is conveniently located on top to allow quick and easy cleaning of reservoir
- Automatic shut-off feature saves energy

Standard Safety Features

- Heat-insulated, double-locking door protects against accidental burns
- Door cannot be opened while chamber is under pressure
- Automatic low water level shut-off prevents damage to the heater elements if there is insufficient water for the sterilization cycle
- Overtemperature cutoff and overpressure valve ensure safe operation

Analog Sterilizers

- Economical, manually operated models feature analog controls and gauges for simple operation

Automated Electronic Sterilizers

- Electronic models use microprocessor controls to completely automate every stage of the cycle — water filling, heating, sterilization, exhaust and drying
- Sterilization time to 59 minutes
- Temperature selection from 105° to 137°C (221° to 279°F)
- In-line particle filter to protect valves
- Electronic pressure and temperature sensors
- Low-water alarm (sounds when reservoir needs to be refilled)
- Standby heating keeps chamber warm for quicker cycles

EP Models

- Built-in printer that provides a printed summary at the end of each cycle
- Documents temperature, elapsed drying and sterilization time, selected cycle, cycle number, real time and date, errors or interruptions

Environmental Model 2540EPK

Meets EPA guidelines. Additional features include:

Contd. on next page.

Heidolph™ Tuttnauer™ Benchtop Sterilizers, Contd.

- Accelerated cycle time
- Built-in printer for sterilization cycle validation

WARRANTY: One year

COMPLIANCE:
Model 2540EPK (02-964-25) meets U.S. EPA guidelines for both solids and liquids

CERTIFICATIONS: UL listed, CSA, ASME (chamber)

Model	Chamber Dia. × Depth	No. of Trays	Printer	Stand	Overall L × W × H	Net Weight	Electrical Requirements	Mfr. No.	Cat. No.	Each
Analog										
1730M	7 × 12" (18 × 30cm)	3	No	No	16 × 17 × 12½" (41 × 43 × 32cm)	46 lb. (21kg)	220V 50/60Hz, 1050w	023210053	**13-889-471**	4727.81
2540M	10 × 18" (25 × 46cm)	4	No	No	20 × 20 × 15" (51 × 51 × 38cm)	75 lb. (34kg)	220V 50/60Hz, 1400w	023210355	**13-889-476**	6270.00
Electronic Control: E Series										
2340E	9 × 18" (23 × 46cm)	3	No	No	20 × 20 × 15" (51 × 51 × 38cm)	70 lb. (31.7kg)	120V 50/60Hz, 1400w	023210207	**02-964-5**	6999.38
2340E	9 × 18" (23 × 46cm)	3	No	No	20 × 20 × 15" (51 × 51 × 38cm)	70 lb. (31.7kg)	120V 50/60Hz, 1400w	023210282	**13-889-474**	7561.87
2340E	9 × 18" (23 × 46cm)	3	No	No	20 × 20 × 15" (51 × 51 × 38cm)	70 lb. (31.7kg)	220V 50/60Hz, 1400w	023210258	**13-889-473**	6696.30
2540E	10 × 18" (25 × 46cm)	4	No	No	20 × 20 × 15" (51 × 51 × 38cm)	75 lb. (34kg)	120V 50/60Hz, 1400w	023210401	**02-964-9**	8078.45
2540E	10 × 18" (25 × 46cm)	4	No	No	20 × 20 × 15" (51 × 51 × 38cm)	75 lb. (34kg)	220V 50/60Hz, 1400w	023210401	**02-964-9**	8078.45
2540EP, 220V	10 × 18" (25 × 46cm)	4	Yes	No	20 × 20 × 15" (51 × 51 × 38cm)	76 lb. (34.5kg)	220V 50/60Hz, 1400w	023210461	**13-889-477**	8002.23
2540EPK	10 × 18" (25 × 46cm)	4	Yes	No	20 × 20 × 15" (51 × 51 × 38cm)	71 lb. (32.2kg)	220V 50/60Hz, 2100w	023210444	**02-964-25**	9370.00
3545EP	12.25 × 18.5" (31 × 47cm)	2	Yes	No	21.5 × 23.5 × 18" (55 × 60 × 46cm)	113 lb. (51kg)	220V 50/60Hz, 2200w	023210690	**02-964-42**	11,590.00
3850EP	15 × 20" (38 × 51cm)	2	Yes	Yes	27 × 26 × 21" (69 × 66 × 53cm)	145 lb. (65.8kg)	220V 50/60Hz, 2400w	023210495	**02-964-28**	17,466.58
3870EP	15 × 27" (38 × 69cm)	2	Yes	Yes	34 × 26 × 21" (86 × 66 × 53cm)	162 lb. (73.5kg)	220V 50/60Hz, 2700w	023210568	**02-964-14**	22,620.92
Electronic Control with Printer: EAP Series										
2340E	9 × 18" (23 × 46cm)	3	No	No	20 × 20 × 15" (51 × 51 × 38cm)	70 lb. (31.7kg)	220V 50/60Hz, 1400w	023210258	**13-889-473**	6696.30

Heidolph™ Tuttnauer™ Vertical Top-Loading Autoclaves

Provide automatic, microprocessor-controlled sterilization — safely and economically

Intelligent Control Technology sterilizes higher load capacities in shorter batch times, saving time and energy. Dual temperature and pressure control systematically increases chamber pressure and temperature throughout heating phase, helping to achieve chamber and sample temperature in half the time of other autoclaves. Cooling system available on select models.

Operating Features

- Digital LCD for pressure, temperature, time and process alerts
- Six preset programs
- PT-100 temperature sensor ensures that vessels achieve desired sterilization temperature before sterilization cycle begins
- Demineralized water level for steam generation is automatically regulated
- Exhaust steam is cooled before venting
- Heat-resistant plastic cover on lid prevents contact with hot parts and protects against burns
- Validation ports allow connection to external temperature sensors (not included) used in validation/qualification methods
- RS-232 interface

Rapid Cooling System (Optional)

- Cools chamber after sterilization cycle
- Lowers cool-down time by up to 90%
- Offered on models ending in letter "C"

ORDERING INFORMATION:
Please contact a Fisher Scientific sales representative for installation requirements prior to purchase.

WARRANTY: One year on parts

Model	Mfr. No.	Cat. No.	Each
Without Rapid Cooling System			
2540 ELV	023210900	**13-880-100**	11,920.00
3850 ELV	023210920	**13-880-102**	19,855.54
3870 ELV	023210940	**13-880-104**	23,924.37
5075 ELV	023210980	**13-900-102**	37,040.11
With Rapid Cooling System			
2540 ELVC	023210910	**13-880-101**	14,030.00
3850 ELVC	023210930	**13-880-103**	21,312.59
5075 ELVC	023210990	**13-900-103**	38,302.62

***Fisher**brand*®

White Autoclave Tapes

For steam sterilization

- Excellent adhesive backing sticks securely
- Removes easily without leaving residue
- White steam-sensitive stripes turn black when passed through a steam sterilization cycle

ORDERING INFORMATION: Each roll is 60 yd. (55m) long.

Width	Cat. No.	Each
0.50" (12.7mm)	**15-903**	7.64
0.75" (19mm)	**15-904**	8.18
1" (25.4mm)	**15-905**	10.62

15-905

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sterilmatic™ Steam Pressure Sterilizers

Sterilize laboratory glassware as well as liquids

Two models, each with roomy 16 dia. × 26"D chamber.

- Capacity, 3 cu. ft.
- Fixed-temperature model heats to 121°C (250°F)
- Variable-temperature model heats from 110°C to 121°C (230° to 250°F)
- Operating pressure: 15psi (1 atm/100kPa)
- Front-mounted controls with 60-minute timer
- Exhaust speed dial with fast (1 minute for instruments and glassware) and slow (10 minutes for liquids) settings
- Fast preheating — reach sterilizing temperature in 8 to 10 minutes from cold start, 3 to 7 minutes in continued use
- Doors lock automatically and cannot be opened until pressure is exhausted
- Incorporate low-water cutoffs, safety valves
- Release pressure and shut off power supply at end of cycle
- Polished stainless-steel exterior with adjustable feet
- Clad aluminum interior chamber

ORDERING INFORMATION:

- Dimensions, overall: 31L × 18$^3/_4$W × 29"H (79 × 48 × 74cm)
- Chamber: 16 dia. × 26"D (41 × 66cm)
- Net weight, 150 lb. (68kg)
- For 208/240V 60Hz, 1 or 3 phase
- Amperage: 26 for 208V, 3 phase; 30 for 240V, 4-wire; 45 for 208V, single phase; 51 for 240V, 3-wire

14-460

REQUIRES: Hardwiring (must be done separately; power cord not supplied)

CERTIFICATIONS: CSA, ASME

NOTES: Must be hardwired in the location of use.

Description	Temperature	Mfr. No.	Cat. No.	Each
Fixed Temperature	121°C (250°F)	95-2678	**14-460**	15,600.00
Variable Temperature	110° to 121°C (230° to 250°F)	95-3441	**14-460-10**	16,000.00

Thermo Scientific™ Biological Indicators, Incubator and Pouches

Easy and inexpensive methods to monitor steam sterilizer effectiveness

Indicators verify sterility of instruments, vials, media, liquid cycles and other products in less time than it takes to send samples to an outside lab. Choice of two biological indicators: for media and liquids or for instruments, glassware and other applications. Color change from purple to yellow indicates an ineffective sterilization process.

14-490 Series

- Verify sterility of instruments, media and other steam-sterilized items in just two days, using a simple three-step process
- Easy sterilization identification: purple color ensures sterilization; yellow, cloudy results indicate an ineffective sterilization
- Indicators can save up to 60% of the cost of outsourcing complete sterility tests

For Media and Liquids

- SterilAmp™ II Biological Indicators with spore populations of 10^6
- Available in boxes of 25 or 100

For Instruments, Glassware and Other Applications

- B/T Sure™ Biological Indicators with spore populations of 10^5
- Other spore populations available upon request
- Comply with current AAMI and ISO standards

Description	Mfr. No.	Cat. No.	Pack of
B/T Sure Biological Indicator for instruments, glassware and other apparatus	AY759X3	**14-490-24**	100/547.50
B/T Sure Biological Indicator for instruments, glassware and other apparatus	AY759X1	**14-490-25**	5/38.71
SterilAmp II Biological Indicator for media and additives	AY759X4	**11-715-140A**	100/573.00
SterilAmp II Biological Indicator for media and additives	AY759X7	**11-715-140**	25/181.80

Bel-Art™ Scienceware™ OdoClave™ Deodorant Autoclave Pads

Neutralize autoclave odors with a pleasant fragrance

- Heat-release deodorant works automatically at autoclave temperatures
- Three-year shelf life or longer if stored in a sealed container
- Triple strength pads release three times the deodorant of standard pads while costing less than two standard pads

14-488-30

ORDERING INFORMATION:

Choose 1.25" (3.2mm) square regular-strength or 2.25" (5.7cm) square super-strength pad.

Scent	L × W	Mfr. No.	Cat. No.	Pack of 100
Clove	3.2 × 3.2cm (1.25 × 1.25")	131980000	**14-488-30**	123.70
Triple-strength Clove	5.7 × 5.7cm (2.25 × 2.25")	131990000	**14-488-31**	190.30

OdorGone™ Autoclave Deodorizer

High concentration liquid deodorant in capsule form

One capsule placed in each load absorbs offensive odors, leaving your autoclaves smelling fresh and clean.

22-032-087, 22-032-079

Scent	Pack Size	Cat. No.	Each	Case of
Apple	25 Caps	**22-032-079**	41.50	8/292.50
	100 Caps	**22-032-080**	127.53	6/660.73
Lemon	25 Caps	**22-032-085**	38.36	8/262.33
	100 Caps	**22-032-087**	127.53	6/660.73

Mesa Labs Prospore™ Self-Contained Biological Indicator

Ideal for validating steam sterilization of liquids

Safe, easy-to-use, self-contained biological indicator used to validate or monitor steam sterilization in hospitals and pharmaceutical facilities.

- No activation is required — simply expose ampule sterilizer and incubate afterwards
- Sealed Prospore ampules contain *Geobacillus stearothermophilus* spores suspended in growth media
- Bromocresol purple pH indicator added to assist in detecting spore growth
- Outgrowth of spores decreases pH, causing a color change from purple to yellow
- Standard population is 10^5 per unit
- Results available in 48 hours
- 4mL ampules

12-001-1 (Growth shown by color change from purple to yellow)

ORDERING INFORMATION:
For 121°C steam sterilization cycles only. A control test should be used to verify spore viability.

STORAGE: Store in a refrigerator at 2 to 8°C. Do not freeze. Expires 18 months from date of manufacture.

Description	Mfr. No.	Cat. No.	Pack of
10 Ampules	PS-5-10	**12-001-1**	10/75.48
50 Ampules	PS-5-50	**12-001-2**	50/306.24

Kimberly-Clark™ KIMGUARD™ KC200 Sterilization Wraps

Soft, drapable wrap withstands tough handling

Second of six strength levels in the KIMGUARD line and is often used for linen towels, packs and gowns, light basin sets and single instruments.

- Soft, strong and tear-resistant
- Resists event-related contamination
- Tough three-layer, low-lint SMS construction resists penetration by particles and liquids
- Naturally latex-free, nonsterile and steam and EtO compatible
- Light blue

KC200 Sterilization Wraps

ORDERING INFORMATION:
Five additional strength levels (KC100, KC300, KC400, KC500 and KC600) available. Contact your Fisher Sales Representative at 1-800-772-6733 for ordering information.

Size	Mfr. No.	Cat. No.	Case of
40 × 40" (101 × 101cm)	68040	**19-065-704**	250/391.05
48 × 48" (121 × 121cm)	68048	**19-065-705**	100/223.77

Kimberly-Clark™ KIMGUARD™ ONE-STEP™ KC200 Sterilization Wraps

Two sheets bonded together, making it possible to double wrap in a single step

KC200 is the second of six strength levels in the KIMGUARD ONE-STEP line. Use to wrap parts, trays and kits prior to steam, gas or gamma irradiation.

- Patented design allows packages to be wrapped and opened in a single step to save time
- Imprinted with its name, size and lot code for convenience
- Light blue SMS fabric
- Non-sequential wrap
- Latex free
- Steam and EO compatible
- Recommended for lightweight packages

ONE-STEP Sterilization Wraps

Size	Mfr. No.	Cat. No.	Case of
40 × 40" (101 × 101cm)	62040	**19-065-707**	120/353.87
48 × 48" (121 × 121cm)	62048	**19-065-708**	48/208.62
54 × 54" (137 × 137cm)	62054	**19-065-709**	48/275.60
54 × 72" (137 × 182cm)	62072	**19-065-710**	48/339.30

Propper Manufacturing Steri-Wrap™ III Autoclavable Wraps

Ideal for a variety of uses including OR and CSR wrapping

- Excellent microbial barrier — virtually lint-free and completely liquid repellent
- Particularly recommended for applications where strength is required for heavy items such as instrument trays and basin sets
- Made from single-use, nonwoven and tightly anchored fabric
- Can be used on either side without risk of delaminating

11-890 Series

ORDERING INFORMATION:
Order autoclavable tape separately

Size	Cat. No.	Case of
18 × 18" (46 × 46cm)	**11-890-1**	400/253.00
24 × 24" (61 × 61cm)	**11-890-2**	400/413.50
36 × 36" (91 × 91cm)	**11-890-3**	150/370.00
45 × 45" (114 × 114cm)	**11-890-4**	100/395.00
48 × 48" (122 × 122cm)	**11-890-5**	100/420.00
54 × 54" (137 × 137cm)	**11-890-6**	50/280.00
54 × 72" (137 × 183cm)	**11-890-7**	50/390.00

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

Stirrers

Magnetic

Fisher Scientific™ Magnetic Stirrers

Basic stirring with retro styling

- Variable analog speed control from 100 to 1200rpm
- Stir up to 2L water
- Porcelain-coated stainless-steel top plate resists acids and alkalis and cleans easily; drip edge guards against spills
- Instant-on at 100rpm for smooth, safe low-speed operation
- Durable die-cast aluminum base

ORDERING INFORMATION:
For 120V 60Hz

INCLUDES: Three-wire grounded cord and plug and PTFE-coated stir bar

WARRANTY: 12 months

CERTIFICATIONS: CSA approved

11-520-16S

Top Plate	Stirring Range	Load Capacity	Overall Dimensions (L × W × H)	Cat. No.	Each
4 × 4" (10.2 × 10.2cm)	100 to 1200rpm	10 lb.	8.25 × 5.25 × 4.375" (21 × 13.3 × 11.1cm)	**11-520-16S**	264.50
7 × 7" (17.8 × 17.8cm)	100 to 1200rpm	25 lb.	11.5 × 8.5 × 4.5" (29.2 × 21.6 × 11.4cm)	**11-520-49S**	311.00

Fisher Scientific™ Isotemp™ Basic Magnetic Stirrers

Compact, low-profile stirrers with analog control

Choose reflective ceramic or chip-resistant aluminum top plate models.

Operating Features

- Variable speed control from 60 to 1200rpm
- Speed is set easily, even when wearing heavy gloves
- Microprocessor controller maintains consistent stirring under changing viscosities
- Base includes support rod mount with thumbscrew for rods up to 13mm dia.
- Load capacity: 25 lb. (11kg)

Safety Features

- INSTANT ON begins stirring at a slow 50rpm to prevent splashing
- White ceramic top plate models resist alkalis and acids, clean easily
- Aluminum-top models are scratch- and chip-proof
- Contoured housing diverts spills away from internal components

INCLUDES:
Detachable 3-wire line cord and plug, PTFE stir bar

WARRANTY:
Three years

COMPLIANCE:
IEC 1010

CERTIFICATIONS:
120V CUL, CSA approved; 230V CE marked

11-100-16S

Top Plate Size	Top Plate Material	Electrical Requirements	Cat. No.	Each
4.25 × 4.25" (10.8 × 10.8cm)	Ceramic	120V 50/60Hz	**11-100-16S**	326.50
4.25 × 4.25" (10.8 × 10.8cm)	Ceramic	230V 50/60Hz	**11-102-16S**	382.50
7.25 × 7.25" (18.4 × 18.4cm)	Ceramic	120V 50/60Hz	**11-100-49S**	315.00
7.25 × 7.25" (18.4 × 18.4cm)	Ceramic	230V 50/60Hz	**11-102-49S**	381.50
7.25 × 7.25" (18.4 × 18.4cm)	Aluminum	120V 50/60Hz	**11-200-49S**	374.00
7.25 × 7.25" (18.4 × 18.4cm)	Aluminum	230V 50/60Hz	**11-202-49S**	446.00
10.25 × 10.25" (26.0 × 26.0cm)	Ceramic	120V 50/60Hz	**11-100-100S**	505.00
10.25 × 10.25" (26.0 × 26.0cm)	Ceramic	230V 50/60Hz	**11-102-100S**	548.50

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Fisher Scientific™ Isotemp™ Digital Magnetic Stirrers

Compact, precise and perfect for timed applications

Operating Features

11-300-49S

- Digital speed control from 60 to 1200rpm
- Stirring speed is easily adjustable in 1rpm increments — even when wearing lab gloves
- Microprocessor-controlled stirring maintains consistent action with changing viscosities
- Large digital display shows set and actual speed
- RESET key restores last settings
- Programmable timer shuts off stirrer after user-defined interval
- "Favorites" feature allows users to store three commonly used settings
- Base includes support rod mount with thumbscrew for rods up to 13mm dia.
- Load capacity: 25 lb. (11kg)

Safety Features

- INSTANT ON begins stirring a slow 50rpm to prevent splashing
- White ceramic top plate (52 sq. in.) resists alkalis and acids, cleans easily
- Cast-aluminum housing diverts spills away from internal components

ORDERING INFORMATION: Dimensions, Top Plate: 7.25 × 7.25" (18.4 × 18.4cm); Overall: 12.75L × 8.5W × 3.875"H (27.9 × 18.7 × 8.4cm).

INCLUDES: Detachable 3-wire cord with plug and PTFE-coated stir bar

WARRANTY: Three years

COMPLIANCE: IEC 1010

CERTIFICATIONS: CUS, CSA

Electrical Requirements	Cat. No.	Each
120V 50/60Hz	**11-300-49S**	845.00

WHY CHOOSE BLUE?

Choose blue — that's Fisherbrand blue — for products that guarantee quality, reliability and value. With over 10,000 products and premiere brands such as Isotemp and accumet you can choose blue for all your laboratory needs. Visit **www.fishersci.com/fisherbrand.**

Fisher Scientific™ Small Vessel Stirrer

Compact stirrer ideal for stirring in distillation or organic synthesis setups and for student use

Stir solutions — from water to viscous 50% glycerine — in small open or closed vessels.

- 6 dia. × 3" high (15.2 × 7.6cm)
- Speed continuously adjustable from 200 to 2500rpm
- Direct-drive motor/magnet assembly
- Top plate surface area: 25 sq. in. (161cm^2)
- Top plate and base are both molded thermoplastic polyester

14-493-120SQ

ORDERING INFORMATION:
For 120V 60Hz, 0.4A, 48w

INCLUDES: Stirrer, stir bar and 3-wire cord and plug

WARRANTY: 12 months

CERTIFICATIONS: CSA approved

Description	Cat. No.	Each
Small-Vessel Stirrer, 120V 60Hz	**14-493-120SQ**	205.00

Fisher Scientific™ Twistir™ Mini Stirrers

Stir with Style – economical personal stirrers with a unique triangular design

Choice of seven whimsical top plate designs.

- Stirring range: 350 to 2000rpm
- Stirring capacity: 1L
- Maximum vessel diameter: 8.5cm
- Power-on LED
- Clear, chemically resistant nylon top surface
- Tough, stable plastic base

11-510-56

ORDERING INFORMATION:
Overall dimensions: 5.625L × 5.625W × 2.375"H (14.3 × 14.3 × 6.6cm); for 115V

INCLUDES:
Line adapter, stir bar and instructions

WARRANTY:
Three years

Stirrer Graphics	Cat. No.	Each
Blue is Good	**11-510-56**	257.50
Bacteria	**11-510-50**	245.50
Caffeine	**11-510-51**	245.50
Alchemist	**11-510-52**	245.50
DNA	**11-510-53**	245.50
Periodic Table	**11-510-54**	245.50
White Crystal	**11-510-55**	245.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Cimarec™ Stirrers

Add color to the lab with safety, performance and value

Low-profile design includes three sizes for flexibility from microscale chemistries to larger vessels.

Performance Features

- Microprocessor feedback control provides constant speed regardless of changes in viscosity and prevents runaway and magnetic decoupling
- Direct-drive motor and magnet system permits quiet stirring
- Tight seal and safety trough ensure that accidental spills do not penetrate casing
- Power-on light
- Integrated ring-stand holder to accommodate 1.3cm (0.5") dia. support rod

Safety Features

- Cast-aluminum base diverts spills from internal electronics
- Low-profile design and stable, rugged base prevent tipping and spillage

Ceramic Top Models

- Clean easily and resist alkalis and acids
- Seamless, reflective white surface aids sample visibility

Aluminum Top Models

- Rugged and chip-resistant for superior durability

INCLUDES:
Detachable line cord and plug. All models supplied with a 0.38 dia. × 2"L (1 × 5.1cm) TFE-coated stir bar, except 4 × 4", which includes a 1" (2.54cm) stir bar.

WARRANTY:
Two years

CERTIFICATIONS:
cCSAus (all models),
CE (220-240V models)

11-675-910Q

Specifications	
No. of Positions	1
Stirring Speed	60 to 1200rpm

Top Plate Material	Load Capacity	Max. Container Volume	Electrical Requirements	Mfr. No.	Cat. No.	Each
Top Plate: 4.25 × 4.25" (10.8 × 10.8cm), Overall Dimensions: 10 × 5 × 3.6" (25.4 × 12.7 × 9.1cm)						
Ceramic	15 lb. (6.8kg)	1L	120V 60Hz	S130815Q	**11-675-907Q**	342.41
Ceramic	15 lb. (6.8kg)	1L	220-240V 50/60Hz	S130810-33Q	**09-047-128Q**	292.00
Top Plate: 7.25 × 7.25" (18.4 × 18.4cm), Overall Dimensions: 13 × 8.2 × 3.8" (33 × 20.8 × 9.7cm)						
Ceramic	25 lb. (11.3kg)	4L	120V 60Hz	S131125Q	**11-675-910Q**	304.00
Aluminum	25 lb. (11.3kg)	4L	120V 50/60Hz	S142125Q	**11-400-008Q**	401.41
Aluminum	25 lb. (11.3kg)	4L	100V 50/60Hz	S142124Q	**11-400-007Q**	375.87
Top Plate: 10.25 × 10.25" (26 × 26cm), Overall Dimensions: 10.25 × 10.25" (26 × 26cm)						
Ceramic	35 lb. (15.9kg)	6L	120V 60Hz	S131435Q	**11-675-913Q**	543.18

Corning™ Scholar™ 171 Stirrer

Compact and suited for working in limited space

For general lab mixing. Perfect for academic or research laboratories.

- Stirring range: 100 to 1600rpm, allows slow to vigorous mixing
- Plastic top-plate: 5L × 5"W (12.7 × 12.7cm) Rugged construction can withstand years of heavy use

ORDERING INFORMATION:
Dimensions: 5L × 5W × 3.18"H
(12.7 × 12.7 × 8.1cm)

11-497-22

Model No.	Electrical Requirements	Mfr. No.	Cat. No.	Each
PC-171	120V 60Hz, 0.24A, 29W	6795 171	**11-497-22**	231.50

Bel-Art™ Scienceware™ Cool Stir™ Large-Volume Magnetic Stirrer

Simplifies large-volume stirring

- Safely and effectively mixes using inert PTFE magnetic stir bars
- Load capacity: 485 lb. (220kg); allows stirring in standard plastic drum
- Variable speed control to 600rpm (for gentle stirring); full depth vortex for aggressive agitation
- Direct-drive, air-cooled 100w (1/8hp) motor
- Optimal results with stir bars from 76 to 160mm in length
- Internal aluminum frame and polypropylene platform
- Insulated housing prevents heat transfer to sample solution
- Sturdy polypropylene side panels protect components and are easy to clean

14-512-100

APPLICATIONS: Large-volume mixing from 10 to 208L

ORDERING INFORMATION: Dimensions: 15.5L × 15.5W × 9.5"H (39 × 39 × 23cm); Net weight: 33 lb. (15kg); 120V 50/60Hz

Capacity	Mfr. No.	Cat. No.	Each
10 to 208L	37028 0001	**14-512-100**	2650.00

Magnetic Stir Bars

Fisherbrand® 8-Agon Stir Bars

Octagon-shaped, PTFE stir bars with molded-on pivot ring

- Interrupted surface provides greater surface area and added turbulence
- Molded pivot ring aids in reducing friction and chattering
- Autoclavable

14-512-146 Series

Diameter	Length	Blue Cat. No.	Yellow Cat. No.	Red Cat. No.	Each	Case of 50
0.31" (8mm)	0.63" (16mm)	**14-512-146**	**14-512-146-2**	**14-512-146-1**	7.98	318.59
0.31" (8mm)	0.88" (22mm)	**14-512-147**	**14-512-147-2**	**14-512-147-1**	7.98	318.59
0.31" (8mm)	1" (25.4mm)	**14-512-148**	**14-512-148-2**	**14-512-148-1**	8.83	353.26
0.31" (8mm)	1.5" (38mm)	**14-512-149**	**14-512-149-2**	**14-512-149-1**	10.23	409.54

Fisherbrand® Blue Micro Stir Bars

Stirring small volumes in vessels such as vials, tubes and grandient makers

- PTFE covering for these magnetic stir bars is low-friction and inert
- Autoclavable

14-511-84

Diameter	Length	Cat. No.	Each	Case of 50
0.059" (1.5mm)	0.315" (8mm)	**14-512-150**	9.29	371.85
0.059" (1.5mm)	0.591" (15mm)	**14-512-151**	9.53	380.90
0.059" (1.5mm)	0.079" (2mm)	**14-512-152**	11.24	449.24
0.079" (2mm)	0.197" (5mm)	**14512153**	10.62	424.50
0.079" (2mm)	0.197" (5mm)	**14-511-84**	Pk. of 12/71.20	----
0.079" (2mm)	0.276" (7mm)	**14-512-154**	10.68	427.00
0.118" (3mm)	0.118" (3mm)	**14512155**	9.07	363.31
0.118" (3mm)	0.394" (10mm)	**14-512-156**	10.68	427.00

Fisherbrand® Cross-Type Stir Bars

Agitate liquids in round-bottom test tubes and flasks, where other stir bars cannot be used

- Maintains position without wobbling
- PTFE encapsulating the magnet is durable and inert
- Autoclavable

14-512-162

Diameter	Height	Cat. No.	Each	Case of 50
0.5" (12.7mm)	0.5" (12.7mm)	**14-512-162**	15.66	626.12
0.62" (16mm)	0.5" (12.7mm)	**14-512-164**	13.89	555.26
0.75" (19mm)	0.5" (12.7mm)	**14-512-163**	21.75	906.50
0.87" (22mm)	0.5" (12.7mm)	**14-512-165**	20.80	865.81

Fisherbrand® Egg-Shaped Bars

Designed for use in round-bottom vessels

14-513-53

- Pivot point integral to the design without a separate ring or abrupt change in contour
- Covered with PTFE
- Shape mimics that of the flask for complete mixing
- Spin unrestricted by vessel contours
- Magnet in larger sizes is egg-shaped itself, with a cylindrical magnet in the smaller sizes

Diameter	Length	Cat. No.	Each	Case of 50
0.25" (6mm)	0.63" (16mm)	**14-512-122**	13.94	557.78
0.38" (9.5mm)	0.75" (19mm)	**14-512-121**	17.61	734.00
0.5" (12.7mm)	1" (25.4mm)	**14-512-120**	15.64	625.61
1.25" (31.7mm)	0.62" (15mm)	**14-513-53**	16.44	658.28
0.63" (16mm)	1.5" (38mm)	**14-512-123**	18.24	759.28
0.75" (19mm)	1.63" (41mm)	**14-513-54**	21.36	889.93
0.75" (19mm)	2.5" (64mm)	**14-513-55**	32.36	1346.70

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® High-Energy Octagon Stir Bar

Composition and octagonal shape produce exceptional power suitable for viscous solutions and high-speed stirring

The risk of demagnetization caused by external magnetic fields is completely eliminated.

14-512-157

- Samarium-Cobalt magnet is encapsulated in PTFE for strong coupling with drive magnets
- Eight edges generate strong turbulence so liquids are thoroughly mixed
- Transmits torque loads two to three times larger than those of conventional stirring bars of this length
- Stability is not impaired in vessels with curved bottoms

Diameter	Length	Cat. No.	Each	Case of 10
0.87" (21mm)	2" (50mm)	**14-512-157**	102.70	910.00

Fisherbrand® Magnetic Micro Stirring Bars

For stirring in test tubes, micro beakers

- Particularly useful in disciplines including life sciences and environmental testing, in which small sample volumes need to be prepared and evaluated
- Covered with PTFE fluoropolymer
- Each bar packaged on blister cards

14-513-64

Diameter	Length	Cat. No.	Each	Case of 50
0.06" (1.5mm)	0.32" (8mm)	**14-513-64**	7.94	265.32
0.08" (2mm)	0.28" (7mm)	**14-513-63**	7.79	259.79
0.13" (3mm)	0.38" (10mm)	**14-513-65**	8.57	286.43
0.13" (3mm)	0.5" (12.7mm)	**14-513-98**	8.32	----

Fisherbrand® Magnetic Stir Bar Six Packs

Our most popular sizes in convenient, economical, ready-to-use multipacks

- Smooth, seamless, polished finish
- High-strength magnetization
- Micro bars or octagonal bars
- Octagonal bars have pivot rings

14-513 Series

Diameter	Length	Cat. No.	Pack of 6
Micro Bars			
0.06" (1.5mm)	0.31" (8mm)	**1451364SIX**	38.79
0.09" (2mm)	0.25" (7mm)	**1451363SIX**	39.14
0.13" (3mm)	0.38" (10mm)	**14-513-65SIX**	41.66
Octagonal Bars			
0.13" (4.5mm)	0.5" (12mm)	**14-513-57SIX**	31.91
0.31" (8mm)	0.5" (13mm)	**14-513-58SIX**	35.12
0.31" (8mm)	1" (25mm)	**14-513-59SIX**	39.14
0.31" (8mm)	1.5" (38mm)	**1451360SIX**	43.42
0.31" (8mm)	2" (51mm)	**14-513-61SIX**	53.27
0.38" (9.5mm)	1" (25mm)	**14-513-51SIX**	48.19
0.38" (9.5mm)	2" (51mm)	**14-513-66SIX**	75.17

Fisherbrand® Octagonal Magnetic Stir Bars

Flat surfaces provide greater mixing action

- With pivot rings for reduced friction and chattering
- Alnico-V (Al, Ni, Fe and Co) magnets encased in PTFE fluoropolymer
- Octagonal shape offers more surface area and greater turbulence than does a smooth cylindrical profile
- Individually packed on blister cards

14-513-59

Diameter	Length	Cat. No.	Each	Case of 50
0.13" (8mm)	0.5" (13mm)	**14-513-57**	7.49	249.74
0.31" (8mm)	0.5" (13mm)	**14-513-58**	6.92	231.15
0.31" (8mm)	0.625" (15.8mm)	**14-513-62**	5.71	228.64
0.31" (8mm)	1" (25mm)	**14-513-59**	7.61	253.76
0.31" (8mm)	1.5" (38mm)	**14-513-60**	8.52	284.42
0.31" (8mm)	2" (51mm)	**14-513-61**	10.38	346.22
0.38" (9.5mm)	1" (25mm)	**14-513-51**	9.23	307.53
0.38" (9.5mm)	1.5" (38mm)	**14-513-52**	8.78	351.25
0.38" (9.5mm)	2" (51mm)	**14-513-66**	14.86	495.47
0.38" (9.5mm)	2.5" (64mm)	**14-513-67**	13.89	555.77
0.5" (13mm)	1.5" (38mm)	**14-513-56**	22.06	917.06
0.5" (13mm)	3" (72mm)	**14-513-68**	24.17	1005.00

Fisherbrand® Magnetic Stirring Bars

Five convenient, multiple-bar assortments

All stir bars are fully encapsulated in PTFE.

14-512-1 Series

Octagon Shaped

- 12 assorted standard bars with pivot ring
- Includes two each of the following sizes: 0.5 × 0.31" (1.3 × 0.78cm), 0.63 × 0.31", 1 × 0.38" (1.3 × 0.78cm), 1.5 × 0.38", 2 × 0.38" and 2.5 × 0.38"

Round Shaped

- 22 assorted bars
- Removable pivot ring on bars longer than 1"
- Includes two each of the following sizes: 0.5 × 0.38", 0.5 × 0.31", 0.75 × 0.31", 1 × 0.31", 1 × 0.38", 1.5 × 0.31", 1.75 × 0.31", 2 × 0.38" and 2 × 0.31". One each of the following: 1.25 × 0.31", 1.25 × 0.38", 1.5 × 0.38" and 1.75 × 0.38"

Metric Polygon Shaped

- 18 assorted bars
- Includes two each of the following sizes: 10 × 6mm, 15 × 6mm, 20 × 7mm, 25 × 8mm, 30 × 8mm, 40 × 8mm, 50 × 8mm, 60 × 8mm and 80 × 10mm

Color-Coded Octagon Shaped

- 24 assorted bars with pivot ring
- Includes one each in yellow, red and blue, in the following sizes: 0.5 × 0.13", 0.31 × 0.31", 0.88 × 0.31", 0.5 × 0.31", 1 × 0.31", 1.5 × 0.31", 2 × 0.31" and 3 × 0.5"

Color-Coded Micro Bars

- 12 assorted bars
- One each in yellow, red and blue in the following sizes: 7 × 2mm, 8 × 1.5mm and 10 × 3mm

Egg-Shaped Bars

- 13 assorted bars
- One each of the following: 3 × 0.75". Two each of the following sizes: 0.75 × 0.38", 1 × 0.5", 1.25 × 0.63", 1.5 × 0.63", 1.63 × 0.75" and 2 × 0.75"

Description	No. of Bars	Cat. No.	Each	Case of
Octagon-shaped bars	12	**14-512-129**	98.59	6/514.56
Round-shaped bars	22	**14-512-130**	216.50	6/1156.00
Metric polygon-shaped bars	18	**14-512-131**	134.37	6/700.99
Color-coded, octagon-shaped bars	24	**14-512-132**	242.00	6/1261.00
Color-coded micro bars	12	**14-512-133**	83.50	20/1437.00
Egg-shaped bars	13	**14-512-134**	194.30	6/1017.00

Fisherbrand® Octagonal Stir Bar Multipack with Restrainer

Red, yellow, white and blue bars provide contrast with mixing solutions and can be designated for specific users or solutions

14-512-105

Magnetic Stir Bars

- Eight-sided profile provides greater surface area and added turbulence vs. cylindrical bars
- Alnico V magnet provides strong vortexes with less "spinout"
- Molded pivot ring reduces friction and chattering
- PTFE-coated for excellent chemical resistance

Spinbar Magnetic Restrainer

- Fits easily in one hand
- Secures stir bars up to 3"L (80mm) when held alongside outer wall of mixing vessel
- Prevents splashing hazards when decanting
- Facilitates safe stir bar retrieval

ORDERING INFORMATION:
Bubble packed.

INCLUDES:
Two 0.31 O.D. × 0.50"L bars (white, red), two 0.31 O.D. × 1"L bars (white, yellow), two 0.31 O.D. × 1.5"L bars (white, blue), two 0.31 O.D. × 2"L bars (white, yellow), two 0.13 O.D. × 0.50"L bars (white, red) and one SpinBar Restrainer

Description	Cat. No.	Each
Stir Bar Multipack with SpinBar Restrainer	**14-512-105**	67.90

Fisherbrand® Polygon Stir Bars

Available in five sizes

14-512-127

- Smooth polygon bars
- The FDA-grade PTFE of these stirring bars is low-friction, inert and durable
- Alnico magnet (Ni, Ni, Fe and Co)
- Suitable for general stirring applications
- Manufactured in ISO 9001:2008 facility

Diameter	Length	Cat. No.	Each	Case of 50
0.25" (8mm)	0.75" (20mm)	**14-512-125**	8.16	326.12
0.25" (8mm)	2" (50mm)	**14-512-127**	11.03	442.00
0.31" (8mm)	0.5" (12.7mm)	**14-512-124**	7.68	307.53
0.38" (9.5mm)	1" (25.4mm)	**14-512-126**	8.34	334.16
0.38" (10mm)	2.75" (70mm)	**14-512-128**	22.81	949.73

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® PTFE Disposable Stir Bars

Low-cost, high-quality stir bars

- Disposable for contamination-free stirring in applications involving radioactive reagents or when cross contamination is a concern
- Multifaceted surface creates more turbulence than does a smooth cylinder
- Strong magnets permanently coated with white PTFE

Top to bottom: 14-513-83, -95, -94, -93

Diameter	Length	Cat. No.	Case of 100
0.13" (3.2mm)	0.5" (12.7mm)	**14-513-93**	111.00
0.31" (8mm)	1" (25.4mm)	**14-513-94**	155.90
0.31" (8mm)	1.63" (41.3mm)	**14-513-95**	187.60
0.31" (8mm)	2" (50.8mm)	**14-513-83**	257.81

Fisherbrand® Round Stir Bars with Removable Pivot Ring

PTFE round bars offer excellent centering and smooth running characteristics

- Small removable pivot ring in the center adds to their versatility
- Pivot ring minimizes contact area of bar to vessel
- Ring also reduces friction and the marring of plastic containers

14-512-140

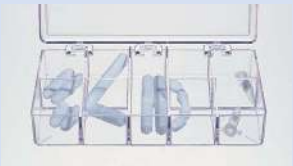
NOTES:
No pivot ring is included on the two smallest sizes, Cat. Nos. 14-512-140 and -141

Diameter	Length	Cat. No.	Each	Case of
0.31" (8mm)	0.5" (12.7mm)	**14-512-140**	14.40	50/576.37
0.31" (8mm)	0.75" (19mm)	**14-512-141**	7.78	50/311.05
0.31" (8mm)	1" (25.4mm)	**14-512-135**	8.55	50/342.20
0.31" (8mm)	1.5" (31.8mm)	**14-512-143**	10.12	50/405.52
0.31" (8mm)	1.25" (38mm)	**14-512-142**	9.96	50/398.48
0.38" (9.5mm)	2" (50.8mm)	**14-512-144**	15.62	50/625.11
0.5" (12.7mm)	3" (76mm)	**14-512-136**	32.65	50/1365.00
0.63" (16mm)	4" (101.6mm)	**14-512-137**	69.85	10/597.47
0.63" (16mm)	5" (127mm)	**14-512-138**	79.90	10/682.90
0.75" (19mm)	6" (152.4mm)	**14-512-139**	194.47	10/1690.41

Fisherbrand® Octagonal Magnetic Stir Bar Kit

Convenient kit of 16 assorted octagonal stir bars packed in compartmented storage box

- Permanent Alnico-V (alloy of Al, Ni, Fe and Co) magnets encased in PTFE fluoropolymer
- With pivot ring (excluding micro bars) to reduce friction and chattering
- The interrupted profile of the octagonal shape creates more turbulence and more surface area than does a smooth cylindrical profile



14-513-82

INCLUDES:

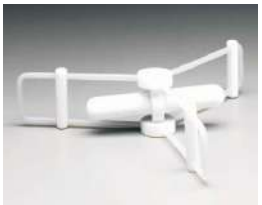
- Two 0.31 dia. × 0.5" long (8 × 13mm) bars
- Two 0.31 dia. × 0.63" long (8 × 16mm) bars
- Two 0.38 dia. × 1" long (9.5 × 25mm) bars
- Two 0.38 dia. × 1.5" long (9.5 × 38mm) bars
- Two 0.38 dia. × 2" long (9.5 × 51mm) bars
- Two 0.38 dia. × 2.5" long (9.5 × 64mm) bars
- Four micro bars: Two 2 dia. × 7mm long, two 3 dia. × 10mm long; micro bars are in 1.25" (32mm) tubes with caps

No. of Stir Bars	Cat. No.	Each
16	**14-513-82**	121.40

Thermo Scientific™ Nalgene™ Suspended Magnetic Stir Bars

Designed for constant low-speed stirring action

- Legs can be compressed to fit through 1.5" (38mm) openings
- Stir bar is slightly raised off the bottom surface of the vessel to minimize grinding effect on cells
- Consistent action at low speeds
- Excellent resistance to chemicals and temperatures up to 150°C
- Autoclavable/TFE



14-511-99A, -99C

ORDERING INFORMATION:
Disassemble for cleaning. Autoclavable.

Diameter × Height	For Beaker	Mfr. No.	Cat. No.	Each	Case of 2
2.125 × 1.125" (54 × 28mm)	250mL	DS6630-0250	**14-511-99A**	94.50	----
3.625 × 1.187" (92 × 30mm)	1000mL	DS6630-1000	**14-511-99C**	----	361.50
6.125 × 1.25" (155 × 31mm)	4000mL	DS6630-4000	**14-511-99E**	----	412.50

Heidolph North America
Research made easy

Before You Buy **Overhead Stirrers**

Selecting Stirring Elements

There are many types of stirring elements that can be used with overhead stirrers:

- **Propeller stirrers—** 2- and 4-bladed stirrers are used to draw the material to be mixed from the top to the bottom
- **Turbine stirrer—** for drawing the mixing material from above; uses a medium to high speed
- **Radial Flow—** ideal for gassing of liquids; pushes material in a radial flow; used for little or average viscosity
- **Anchor Type—** recommended for low speed applications, medium to high viscosity; tangential flow, high shearing edges and leaves minimum deposits on vessel wall
- **Visco Jet—** One system for all mixing tasks! Exclusive to Heidolph

Overhead Stirrer motors can be either mechanically or electronically controlled.

Mechanical stirrers are ideal for standard stirring tasks. They are designed to mix and disperse media that require non reproducible results of high viscosity application under high speeds.

Electronic stirrers are ideal for any demanding stirring task in which the viscosity varies during the entire process either through reaction or due to mixing. Electronic stirrers maintain exact speed under changing load. The displayed torque gives information relating to the actual viscosity and all results are reproducible.

Superior ease of use, low overall cost of ownership and premium safety features should all be considered when choosing the right overhead stirrer for your lab

Heidolph Overhead Stirrers provide the best mixing results for a wide range of applications while ensuring the highest safety and increased performance life.

- Sparkless & maintenance free motors backed by a 3 year warranty you can depend on!
- Important for continuous operation: the motor will be switched off if a high thermal load situation occurs to increase safety in your lab and to prevent accidents.
- A through shaft design allows for adjusting the impeller position to make height adjustments more convenient.
- Completely sealed housing protects your stirrer from aggressive fumes, liquids & vapors to prevent internal corrosion.

HEIDOLPH STIRRER	PART NO.	STIRRING QUANTITY (H2O)	MAX. VISCOSITY	SPEED RANGE (rpm)	MAX TORQUE AT CHUCK
RZR 1	036090000 13-889-868	20L	40,000mPas	35-250 280-2,200	100 Ncm
RZR 2021	036090050 13-880-111	25L	60,000mPas	40-400 200-2,000	400 Ncm
RZR 2041	036090070 13-880-113	40L	100,000mPas	40-400 200-2,000	520 Ncm
RZR 2051 control	036090090 13-880-15	20L	10,000mPas	50-2,000	20 Ncm 40
RZR 2052 control	036090110 13-880-117	100L	40,000mPas	30-1,000	90 Ncm 180
RZR 2102 control	036090130 13-880-119	100L	100,000mPas	12-400 60-2,000	200 Ncm 400

Bel-Art™ Scienceware™ Cell Spinbar™ Stir Bar for Spectrophotometer Cells

For 10mm lightpath spectrophotometer cells

- Provides rapid vertical and horizontal mixing with minimum vortex
- Generates centrifugal pumping action without aeration
- Can also be used in test tubes
- Alnico-V magnet encased in PTFE will not scratch cuvettes
- Autoclavable

ORDERING INFORMATION:
$^3/_8$ diameter × $^5/_{16}$" high (9.5 × 8mm).

14-511-72

Description	Mfr. No.	Cat. No.	Each	Case of 50
Stir Bar for Spectrophotometer Cells	37150 0000	**14-511-72**	34.25	1412.00

Overhead

Fisher Scientific™ Compact Digital™ Overhead Stirrer

Compact overhead stirrer, ideal for continuous, general purpose mixing. Easily fits into fume hoods or enclosed workstations

- Delivers accurate, repeatable results for volumes up to 25L and 15,000cps
- Four-digit speed display shows speed accurate to ±1rpm
- Three-button control (power on/off, speed increase, speed decrease, light on/off) is easy to use
- Last speed setting is stored in memory before unit is powered off
- Convenient handle makes stirrer easy to lift, move and set in place
- Brushless, maintenance-free DC motor produces consistent mixing at all speeds and provides automatic overload protection
- Belt-drive transmission is smooth, quiet and offers high power efficiency ($^1/_{15}$hp, 50w)
- Sealed housing keeps liquids safely away from internal components
- Through shaft allows quick, impeller adjustment and replacement

ORDERING INFORMATION:
Dimensions (with chuck attached), 6L × 3W × 10"H (15.2 × 7.6 × 25.4cm). Weight: 7 lb. (3kg). Stirring paddles, fastening clamp and compact stand (sold separately).

INCLUDES:
Supplied with chuck, chuck key, support rod, power cord and instruction manual. Chuck is adjustable to $^3/_8$ (10mm).

REQUIRES:
Impeller, stand (14-500-355) and clamp (14-500-357), all sold separately.

WARRANTY:
Three year warranty.

CERTIFICATIONS:
Approved to CSA standards

Max. Torque	High-Speed Range	Cat. No.	Each
7 in.-lb.	40 to 2000rpm	**14-500-211**	1101.00

LabReporter
QUARTERLY MAGAZINE

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Fisher Scientific™ RealTorque Digital™ Overhead Stirrers

High-torque, digital overhead stirrer offering speed and torque capabilities for a wide range of volumes and viscosities

- Stirrer handles high-volume/high-viscosity stirring as easily as homogenizing and dispersing — especially useful for continuous use
- User-friendly keypad permits precise speed adjustment and digital LCD indicates rpm or torque to within ±1%
- Electronic controls permit speed adjustment to single-digit increments and maintain set speed within 1% as solution viscosity changes
- Rugged, sealed metal housing encloses the high-performance brushless DC motor with automatic overload protection; two-speed transmission electronically shifts between high-torque and high-speed range — actually transferring motor's power to chuck with 95% efficiency
- Chuck is adjustable up to 3/8" (10mm)
- Chuck guard protects chuck from splashes and prevents accidental movement of chuck
- Stirrer features electronic controls

ORDERING INFORMATION: Dimensions: 8L × 3.75W × 9"H (20.3 × 9.5 × 22.9cm). Weight: 11 lb. (5.0kg). Includes chuck, chuck key, chuck guard, support rod and power cord. **Note:** Does not include impeller, clamp or stand. For 120V 50/60Hz.

WARRANTY: Three-year

CERTIFICATIONS: CSA approved

14-500-210

Max. Torque	Cat. No.	Each
30 in-lb.	**14-500-210**	1711.00

Fisher Scientific™ Electric Analog Laboratory Overhead Stirrers

Variable speed and explosion-proof stirrers are electronically controlled and built to handle viscosities ranging from light watery solutions to high viscosity fluids

Totally enclosed, non-ventilated motor keeps corrosive fumes and dust out for a long and trouble free service life.

- Permanent magnet, D.C. motor provides maximum constant torque throughout entire speed range
- On/off switch for quick stopping
- Overload protection — a manually resettable circuit breaker for safety
- Heavy cast-aluminum control box with motor keeps workplace uncluttered and away from corrosive spills or splashes
- Eye-level control knob electronically regulates speed of application required

Model A40

- A high torque, low rpm stirrer specifically designed to maintain constant low speed

Model A30

- Specially designed for heavy-duty viscous materials and combines speed with power
- Will maintain constant speed regardless of viscosity changes as mixing progresses

Model A20

- General-purpose stirrer will handle a wide range of applications including more viscous materials

Model A15

- Light-duty stirrer ideal for light to medium-light viscosity fluids

ORDERING INFORMATION:
Shaft, propeller, stand and clamp are available separately. A Declaration of Conformity can be provided upon request. All units are 120V/60Hz.

INCLUDES: 9/16 in. dia. × 10 in. L aluminum support rod and 6 ft. three-wire cord with grounded plug

COMPLIANCE: ETL listed and conform to CSA Certification

CERTIFICATIONS: CE markedUL listed

14-500-215

Specifications				
Model	A40	A30	A20	A15
Horsepower	1/15	1/8	1/15	1/10
Max. Volume	40L	30L	20L	15L
Viscosity	20,000 cps	15,000 cps	10,000 cps	7500 cps
Gear ratio	7 to 1	7 to 1	Direct drive	Direct drive
Max. rpm	350	1200	2000	6000
Torque	193 Ncm	74 Ncm	27 Ncm	190 Ncm
Amperage	1.1 A	0.8 A	1.1 A	0.8 A
Weight	9 lb. (4.1kg)	9 lb. (4.1kg)	8 lb. (3.6kg)	8 lb. (3.6kg)

Model	Max. rpm	Torque	Cat. No.	Each
A40	350rpm	193 Ncm	**14-500-212**	1449.00
A30	1200rpm	74 Ncm	**14-500-213**	1420.00
A20	2000rpm	27 Ncm	**14-500-214**	933.50
A15	6000rpm	190 Ncm	**14-500-215**	1082.00

ON THE WEB...

Looking for accessories for Fisher Scientific stirrers?

Visit www.fishersci.com and search for Fisher Scientific stirrers

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ Air-Powered Analog Overhead Stirrers

Variable-speed and explosion-proof stirrers ideal for safely mixing all types of solvents, lacquers and volatile chemicals without the possiblity of spark ignition

- Needle valve allows variation in mixing speed
- Special muffler ensures quieter operation
- Reversible models have motors which can be set to rotate in either direction by connecting the air supply line to the right port for counter-clockwise rotation or the left port for clockwise rotation

Model AP50R

- High-torque, high-speed reversible stirrer
- Includes a 5/8 in. diameter support rod
- Can be used in ambient temperatures up to 250°F (120°C)

Model AP20R

- High torque, heavy duty reversible stirrer specially designed for use with more viscous materials
- Comes with a heavy duty gear reduction unit that will extend the life of the stirrer when used in continuous agitation of highly viscous materials

Specifications				
Model	AP50R	AP20R	AP20	AP10
Horsepower	1.5hp	1/2hp	1/3hp	1/3hp
Max. Volume	50L	20L	20L	10L
Max. Viscosity	30,000 cps	10,000 cps	10,000 cps	5,000 cps
Gear ratio	Direct	7 to 1	7 to 1	Direct
Max. rpm	3000rpm	1000rpm	1200rpm	10000rpm
Max. Torque†	633 Ncm	294 Ncm	203 Ncm	45 Ncm
Air input psi	40 to 100psi	30 to 80psi	30 to 80psi	30 to 100psi
Air consumption†	42cfm	27cfm	13cfm	13cfm
Motor shaft diameter	1/2 in.	3/8 in.	3/8 in.	3/8 in.
Weight	10 lb. (4.6kg)	6 lb. (2.7kg)	6 lb. (2.7kg)	5 lb. (2.3kg)

†Torque values and air consumption given at air pressure of 80 psi and motor speed of 2000rpm for 14-500-216

Model AP20

- General purpose stirrers specially designed for use with more viscous materials
- Constant speed attained through a 7-1 gear reduction thus lowering speed fluctuations due to changes in air pressure

Model AP10

- Light to medium duty stirrers ideal for all types of solvents, lacquers, oils, synthetics and chemicals
- Can be used in ambient temperatures up to 250°F (120°C)

14-500-216

ORDERING INFORMATION:
Shaft, propeller, stand and clamp available separately

INCLUDES:
A 9/16 in. dia. × 10 in. L support rod; four ft. air hose with double fittings for connection to air supply

NOTES:
Using a filter/ regulator with air supply line is recommended

Model	Max. rpm	Torque	Max. Viscosity	Cat. No.	Each
AP50R	3000 rpm	633 Ncm	30,000 cps	**14-500-216**	1580.00
AP20R	1000 rpm	294 Ncm	10,000 cps	**14-500-217**	1210.00
AP20	1200 rpm	203 Ncm	10,000 cps	**14-500-218**	920.00
AP10	10000 rpm	45 Ncm	5,000 cps	**14-500-219**	630.00

Heidolph™ Overhead Stirrers

Unique overhead stirrers can be pivoted 90°

The RZR series stirrers can accomplish the most demanding tasks while providing the highest safety and increased performance life.

- Electronic models maintain exact speeds under changing loads
- Mechanical models are designed for high viscosity application under high speeds
- Speed Range: 35 to 2000rpm (depending on the model)
- Application-specific stirrer paddles are available, including the patented VISCO Jet which is ideal for all mixing tasks
- For 115V 50/60Hz

WARRANTY Three years

13-880-121

13-880-111

Model	Speed Range (rpm)	Stirring Capacity	Display	Max. Viscosity (mPas)	Max. Torque	Wattage	Mfr. No.	Cat. No.	Each
Mechanical Stirrers									
RZR 1	35-2200	20L	No	40,000	100Ncm	77/18w	36090000	**13-889-868**	1018.15
RZR 2020	40-2000	25L	No	60,000	400Ncm	50/27w	36090030	**13-880-109**	1409.34
RZR 2021	40-2000	25L	Yes	60,000	400Ncm	50/27w	36090050	**13-880-111**	1777.72
RZR 2041	40-2000	40L	Yes	100,000	520Ncm	70/37w	36090070	**13-880-113**	2061.72
Electronic Stirrers									
RZR 2051	50-2000	40L	Yes	10,000	40Ncm	80/50w	36090090	**13 880 115**	2508.15
RZR 2052	30-1000	100L	Yes	40,000	180Ncm	140/100w	36090110	**13-880-117**	3141.73
RZR 2102	12-2000	100L	Yes	100,000	400Ncm	140/100w	36090130	**13-880-119**	4180.95
RZR 2102 Control Z	4-540	100L	Yes	350,000	800Ncm	140/100w	36090150	**13-880-121**	5063.35

Stoppers

Fisherbrand® Turnover Septum Stoppers

For narrow-aperture containers

- External serrations on plug
- Turnover sleeve folds down over the container's outer neck and creates a secure seal
- Easily perforated with hypodermic needles
- Available in red or cream rubber in packs of 10

FB-578 and FB-686 Series

Size No.	For I.D. Openings	Cat. No.	Pack of 10
Red Stoppers			
----	7.75 to 8.25mm	**FB-578-72**	18.37
----	9.25 to 9.75mm	**FB-578-73**	20.05
00	11.00 to 11.50mm	**FB-578-74**	18.66
00	12.00 to 13.00mm	**FB-578-75**	20.60
0	13.00 to 13.50mm	**FB-578-76**	13.76
1	15.00 to 16.00mm	**FB-578-77**	18.88
2	17.00 to 17.50mm	**FB-578-78**	23.16
3	17.75 to 18.75mm	**FB-578-79**	17.72
4	20.00 to 21.00mm	**FB-578-80**	34.80
4	22.00 to 23.00mm	**FB-578-81**	20.65
5	23.50 to 24.50mm	**FB-578-82**	42.50
5-1/2	25.50 to 26.50mm	**FB-578-83**	55.60
6	26.50 to 27.50mm	**FB-578-84**	37.25
Cream Stoppers			
----	7.75 to 8.25mm	**FB-686-80**	18.35
----	9.25 to 9.75mm	**FB-686-81**	20.05
00	11.00 to 11.50mm	**FB-686-82**	18.66
00	12.00 to 13.00mm	**FB-686-83**	20.00
0	13.00 to 13.50mm	**FB-686-84**	14.12
1	15.00 to 16.00mm	**FB-686-85**	18.88
2	17.00 to 17.50mm	**FB-686-86**	23.50
3	17.75 to 18.75mm	**FB-686-87**	17.72
4	20.00 to 21.00mm	**FB-686-88**	34.29
4	22.00 to 23.00mm	**FB-686-89**	23.40
5	23.50 to 24.50mm	**FB-686-90**	42.50
5-1/2	25.50 to 26.50mm	**FB-686-91**	55.60
6	26.50 to 27.50mm	**FB-686-92**	37.15

Fisherbrand® Rubber Stoppers

- Available in size no. 00 to 10
- Hole size: 3 to 5mm

14-135 Series

14-140 Series

Size No.	Hole Size	Cat. No.	Pack of (Approx.)†	Case of 5 Pk.
One-Hole Rubber Stoppers				
00	0.11" (3mm)	**14-135A**	109/79.49	351.48
0	0.11" (3mm)	**14-135B**	80/79.39	351.48
1	0.15" (3mm)	**14-135C**	59/80.90	358.05
2	0.19" (5mm)	**14-135D**	54/81.30	359.56
3	0.19" (5mm)	**14-135E**	41/85.43	377.67
4	0.19" (5mm)	**14-135F**	35/85.26	377.31
5	0.19" (5mm)	**14-135G**	29/87.83	388.66
5.5	0.19" (5mm)	**14-135H**	27/87.83	388.66
6	0.19" (5mm)	**14-135J**	21/84.13	372.19
6.5	0.19" (5mm)	**14-135K**	19/85.92	380.13
7	0.19" (5mm)	**14-135L**	15/84.33	373.21
8	0.19" (5mm)	**14-135M**	12/84.74	374.71
9	0.19" (5mm)	**14-135N**	10/89.99	398.47
10	0.19" (5mm)	**14-135P**	8/89.29	394.93
Two-Hole Rubber Stoppers				
00	0.11" (3mm)	**14-140A**	113/82.92	366.63
0	0.11" (3mm)	**14-140B**	82/82.72	366.13
1	0.15" (4mm)	**14-140C**	63/84.23	372.69
2	0.19" (5mm)	**14-140D**	57/84.23	372.69
3	0.19" (5mm)	**14-140E**	43/91.39	404.37
4	0.19" (5mm)	**14-140F**	37/91.81	406.53
5	0.19" (5mm)	**14-140G**	30/87.88	388.95
6	0.19" (5mm)	**14-140H**	22/87.52	387.11
7	0.19" (5mm)	**14-140J**	16/87.52	387.11
8	0.19" (5mm)	**14-140K**	13/88.23	390.65
9	0.19" (5mm)	**14-140L**	11/89.62	396.55
10	0.19" (5mm)	**14-140M**	8/94.42	417.95

†The approximate per-pack quantity shown is based on the average number of stoppers in 1 lb. (454g).

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Prices subject to change.

Fisherbrand® Solid Rubber Stoppers

Available in a variety of sizes ranging from 00 through 16

- Solid rubber construction

14-130 Series

Size No.	Cat. No.	Pack of (Approx.)†	Case of
00	**14-130A**	105/69.49	5 Pk./297.95
0	**14-130B**	77/68.18	5 Pk./291.89
1	**14-130C**	57/68.88	5 Pk./295.43
2	**14-130D**	52/69.59	5 Pk./298.46
3	**14-130E**	39/71.61	5 Pk./306.54
4	**14-130F**	33/70.50	5 Pk./301.99
5	**14-130G**	28/75.14	5 Pk./322.19
5.5	**14-130H**	26/75.14	5 Pk./322.19
6	**14-130J**	20/70.50	5 Pk./301.99
6.5	**14-130K**	18/75.13	5 Pk./322.07
7	**14-130L**	15/70.70	5 Pk./303.00
8	**14-130M**	12/73.12	5 Pk./313.10
9	**14-130N**	10/74.74	5 Pk./320.63
10	**14-130P**	8/75.19	5 Pk./322.41
16	**14-130-1**	----	4/320.11

†The approximate per-pack quantity shown is based on the average number of stoppers in 1 lb. (454g).

Fisherbrand® Solid Neoprene Rubber Stoppers

Recommended where rubber would be attacked or deteriorated

- Solid neoprene
- Resists petroleum products, fats, oils and organic chemicals

14-141 Series

Size No.	Cat. No.	Pack of (Approx.)†	Case of
0	**14-141A**	68/81.10	5 Pk./356.03
1	**14-141B**	48/84.28	5 Pk./369.41
2	**14-141C**	44/81.20	5 Pk./356.53
3	**14-141D**	32/85.83	5 Pk./376.88
4	**14-141E**	27/86.80	5 Pk./382.50
5	**14-141F**	23/86.76	5 Pk./380.72
6	**14-141G**	17/84.74	5 Pk./371.87
6.5	**14-141H**	15/86.96	5 Pk./381.23
7	**14-141J**	12/86.27	5 Pk./378.80
8	**14-141K**	10/88.52	5 Pk./388.50
9	**14-141L**	8/88.44	5 Pk./388.07
10	**14-141M**	8/88.56	5 Pk./388.68
10.5	**14-141N**	7/88.86	5 Pk./390.20
11	**14-141P**	6/88.80	5 Pk./389.40
11.5	**14-141Q**	4/88.45	5 Pk./388.12
12	**14-141R**	5/90.49	5 Pk./397.32
13	**14-141S**	4/87.66	5 Pk./384.24
13.5	**14-141T**	1/89.47	13 Pk./392.74
14	**14-141V**	1/87.93	8 Pk./386.06
15	**14-141W**	----	7/376.00
16	**14-141X**	----	4/377.77

†The approximate per-pack quantity shown is based on the average number of stoppers in 1 lb. (454g).

Fisherbrand® Solid Silicone Stoppers

Create a tight, reliable seal in virtually all sealing applications

- Pure, high-grade, translucent silicone withstands repeated sterilization, as well as temperatures from -60° to +220°C (-76° to +428°F) peaks at 250°C (482°F)
- Resist particle buildup
- Chemically inert and are food-grade quality

09-704 Series

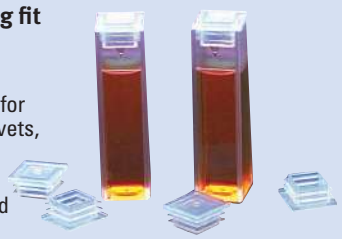
APPLICATIONS:
Ideal for procedures demanding high purity — ideal for biological applications (after normal cleaning and autoclaving)

U.S. Size No.	European Size No.	Cat. No.	Pack of
----	6D	**09-704-1**	10/5.21
----	8D	**09-704-1A**	10/6.55
----	10D	**09-704-1B**	10/8.36
000	13D	**09-704-1C**	10/10.37
00	15D	**09-704-1D**	10/12.77
0	16D	**09-704-1E**	10/15.93
1	18D	**09-704-1F**	10/20.00
2	21D	**09-704-1G**	10/24.90
3	24D	**09-704-1H**	10/31.25
4	27D	**09-704-1I**	10/39.70
6	31D	**09-704-1K**	10/82.20
6.5	34D	**09-704-1L**	10/75.40
7	38D	**09-704-1M**	10/93.70
8	41D	**09-704-1N**	10/115.00
9	45D	**09-704-1P**	10/148.80
10	49D	**09-704-1Q**	5/93.00
10.5	54D	**09-704-1R**	5/116.30
11	60D	**09-704-1S**	5/147.50
11.5	65D	**09-704-1T**	1/32.75
13	70D	**09-704-3**	1/40.90
----	75D	**09-704-1V**	1/51.40
----	83D	**09-704-1W**	1/65.30
15	100D	**09-704-1Y**	1/95.90

Fisherbrand® Disposable Polyethylene Stoppers

With flexible fins for a snug fit

- Protect valuable contents from contaminants
- Square-shaped stopper is for use in standard square cuvets, including Fisherbrand Disposable Plastic Cuvets
- Round stopper can be used with culture and general-purpose tubes



14-385-999; cuvets not included.

Type	Cat. No.	Case of 1000
Round, 16mm diameter	**14-385-995**	64.30
Square, 10.75 × 10.75mm	**14-385-999**	125.90

Kimble-Chase Kontes™ Hollow White Rubber Sleeve Stoppers

K7-742-61 Series

- Plug-type stopper with sleeve extension fits into the neck of the apparatus for a secure seal
- Diaphragm can be punctured with a syringe needle

APPLICATIONS:
Use for outgassing NMR sample tubes, as a pressure vent or for adding reactant via a syringe

European Size No.	Description	Mfr. No.	Cat. No.	Pack of 50
14mm	Fits $ 14/20	774261-0014	**K7-742-610014**	34.10
24mm	Fits $ 24/40	774261-0024	**K7-742-610024**	91.00

Pyrex™ Brand $ Glass Barrelhead Stoppers

14-640-1 Series

14-640-2 Series

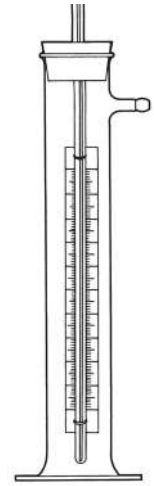
$ Stopper No.	Mfr. No.	Cat. No.	Case of 6
Barrelhead Short-Length Stopper for Flasks and Separatory Funnels			
8	7650 8	**14-640-1AA**	57.60
9	7650 9	**14-640-1A**	64.30
13	7650 13	**14-640-1B**	75.80
16	7650 16	**14-640-1C**	86.40
19	7650 19	**14-640-1D**	102.50
22	7650 22	**14-640-1E**	109.40
27	7650 27	**14-640-1F**	136.80
32	7650 32	**14-640-1G**	197.50
38	7650 38	**14-640-1H**	241.00
Taper Barrelhead Med-Length Stoppers for Reagent Bottles/Std.			
14/20	7575 14	**14-640-2B**	83.70
19/22	7575 19	**14-640-2D**	96.40
24/30	7575 24	**14-640-2F**	121.50
29/35	7575 29	**14-640-2J**	178.00

Surface Tension

Fisher Scientific™ Surface Tension Apparatus

Determines surface tension from height of liquid in capillary tube

- 250mm borosilicate glass capillary tube
- Engraved graduations
- Graduated from 0 to 10cm, in 1mm divisions
- Cork holds capillary tube inside outer tube
- Outer tube accommodates rubber tubing



14-818

Description	Cat. No.	Each
Surface Tension Apparatus	**14-818**	282.40

Replacement Capillary Tubes

For Fisher Scientific™ Surface Tension Apparatus (14-818)

- With scale

Description	Cat. No.	Each
Replacement Capillary Tube	**14-818A**	206.49

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Prices subject to change.

Swabs and Applicators

General Purpose

Fisherbrand® Cotton-Tipped Applicators

Purified cotton

23-400-110

- Available sterile or nonsterile
- With wooden or plastic handles

APPLICATIONS:
Useful in bacteriology labs for inoculating broths or plated media or for obtaining culture specimens, and for cleaning delicate instruments

Length	Sterility	Handle	Cat. No.	Pack of	Case of
2.95" (7.5cm)	Nonsterile	Wooden	**23-400-105**	1000/15.12	20 Pk./258.49
3" (7.6cm)	Nonsterile	Wooden	**23-400-118**	1000/22.68	10 Pk./193.85
3" (7.6cm)	Nonsterile	Wooden	**23-400-100**	1000/31.36	10 Pk./268.05
5.9" (15cm)	Nonsterile	Wooden	**23-400-106**	1000/15.93	20 Pk./272.23
6" (15cm)	Nonsterile	Wooden	**23-400-101**	1000/30.36	10 Pk./259.50
6" (15cm)	Nonsterile	Wooden	**23-400-119**	1000/37.76	10 Pk./322.74
6" (15cm)	Nonsterile	Plastic	**23-400-107**	1000/27.02	10 Pk./230.93
6" (15cm)	Sterile	Wooden	**23-400-114**	200/18.24	10 Pk./155.93
6" (15cm)	Sterile	Wooden	**23-400-124**	2000/99.10	----
6" (15cm)	Sterile	Wooden	**23-400-125**	1000/101.40	----
6" (15cm)	Sterile	Wooden	**23-400-115**	100/27.18	10 Pk./232.32
6" (15cm)	Sterile	Plastic	**23-400-109**	1000/302.95	----
6" (15cm)	Sterile	Plastic	**23-400-110**	2000/315.05	----

Fisherbrand® Foam-Tipped Swabs

Open-cell polyurethane foam-tipped applicators

With polypropylene or wood handles

- Nonlinting and nonscratching

14-960-3E

APPLICATIONS:
May be used with alcohol, acetone, oils, greases and solvents

Handle Type	Tip Diameter	Length	Cat. No.	Pack of
Polypropylene	0.396cm	7.145cm	**14-960-3E**	50/38.78
Polypropylene	0.622cm	13.137cm	**14-960-3L**	50/23.35
Polypropylene	0.254cm	15.240cm	**14-960-3J**	50/20.36
Wooden	0.211cm	14.923cm	**14-960-3G**	50/39.76
Wooden	0.254cm	15.290cm	**14-960-3H**	50/23.48

Fisherbrand® Plain-Tipped Applicators

For stick test in blood banks and routine laboratory chores

- Nonsterile
- Wooden

23-400-102

Length	Cat. No.	Pack of
5.875" (14.9cm)	**23-400-102**	864/21.89
6" (15cm)	**23-400-112**	1000/12.20
12" (30cm)	**23-400-104**	1000/60.09

Fisherbrand® Swab/Tube Applicators

Equivalent to BD™ Falcon™ Swube™

22-363-581

- Sterile, disposable and compact
- Protect specimens from contamination
- Tested for microbial compatibility

ORDERING INFORMATION:
Individually wrapped

Type	Tube Size	Tip	Cap Type	Mfr. No.	Cat. No.	Pack of 200
Single	17 × 100mm	Cotton	Friction	FS22363584	**22-363-584**	237.38
Single	16 × 150mm	Cotton	Screw	FS22363581	**22-363-581**	285.38
Dual	16 × 150mm	Cotton	Screw	FS22363583	**22-363-583**	381.86
Single	16 × 150mm	Polyester	Screw	FS22363585	**22-363-585**	290.38

Fisherbrand® Synthetic-Tipped Applicators

- Sterile or nonsterile
- Sterile are individually wrapped
- Polyester-tipped in wooden or plastic handle

23-400-122

Sterility	Handle	Mfr. No.	Cat. No.	Pack of	Case of 10 Packs
Nonsterile	Wooden	18-F0012	**23-400-113**	1000/36.22	309.59
Sterile	Wooden	18-F0015	**23-400-116**	100/25.81	220.57
	Plastic	18-F0023	**23-400-111**	200/30.40	259.83
	Plastic	16-F0024	**23-400-122**	100/40.50	345.76

Fisherbrand® Tongue Depressors

Made of taste-free, splinter-free, straight-grained smooth white birch

11-700-556

- Depressor is 6L × 0.75"W (15 × 1.9cm)
- Sterile or nonsterile
- Sterile are individually wrapped: 1/envelope, 100 envelopes/pack, 10 packs/case

Description	Cat. No.	Pack of 500	Case of
Nonsterile	**11-700-556**	----	1200/36.00
Nonsterile	**11-700-555**	17.48	10/149.40
Sterile	**23-400-121**	----	1000/101.25

Fisherbrand® Wooden Splints

Thin wood

Measure
4.5L × 0.37W × 0.083" thick
(114.3 × 9.5 × 2.1mm).

23-400-123

Description	Cat. No.	Pack of 500
Wooden Splints	**23-400-123**	31.91

Specialty

BD™ BBL™ CultureSwab™ and CultureSwab Plus™ Collection and Transport Systems

Available in more than 20 swab and shaft configurations

CultureSwab and CultureSwab Plus Collection and Transport Systems

Create a microenvironment ideal for transporting aerobic, anaerobic and other fastidious pathogens. Narrow configuration in lower portion of the tube, "Venturi-constriction," forces media to circulate around the swab, minimizing specimen exposure to the toxic effects of oxygen.

- BD CultureSwab is offered in Amies and Stuart's liquid formulations as well as Cary-Blair agar formulation
- BD CultureSwab Plus is offered in Amies agar gel formulations, with and without charcoal
- Addition of charcoal neutralizes bacterial metabolic products

INCLUDES:
Round-bottom tube; nontoxic rayon-tipped swab with 5.25" (13.3cm) shaft; security cap for a water-tight seal; extra-large, preattached label printed with lot number, expiration date and product description (also printed on peel pack); and tamper-evident seal

Medium	Swab	Shaft	Mfr. No.	Cat. No.	Pack of 50
CultureSwab–Without Charcoal					
Amies Liquid	Single	Plastic	220093	**B4320093**	105.70
	Dual	Plastic	220105	**B4320105**	88.00
	Single	Wire	220129	**B4320129**	125.60
	Single	Soft Wire	220130	**B4320130**	152.50
	Single	Flex Wire	220131	**B4320131**	134.00
Cary-Blair Stuart's Liquid	Single	Plastic	220097	**B4320097**	72.90
	Single	Plastic	220099	**B4320099**	70.40
	Dual	Plastic	220109	**B4320109**	89.30
	Single	Wire	220132	**B4320132**	114.00
	Single	Soft Wire	220133	**B4320133**	127.10
	Single	Flex Wire	220134	**B4320134**	127.20
CultureSwab Plus–Without Charcoal					
Amies Gel	Single	Plastic	220116	**L4320116**	74.00
	Dual	Plastic	220117	**L4320117**	106.30
	Single	Wire	220118	**L4320118**	154.70
	Single	Soft Wire	220119	**L4320119**	195.30
	Single	Flex Wire	220126	**L4320126**	147.80
CultureSwab Plus–With Charcoal					
Amies Gel	Single	Plastic	220121	**L4320121**	109.00
	Dual	Plastic	220122	**L4320122**	172.30
	Single	Wire	220123	**L4320123**	145.80
	Single	Soft Wire	220124	**L4320124**	210.00
	Single	Flex Wire	220125	**L4320125**	200.50

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Syringes

General Purpose

BD™ Luer-Lok™ PrecisionGlide™ Disposable Syringes with Detachable Needles

Sterile, disposable syringes

14-82 Series

- For easy identification of needle gauge, needle package and hub are color coded: 25G, blue; 23G, turquoise; 22G, black; 21G, green; 20G, yellow
- All syringes are sealed in an Easy Peel™ package
- Autoclavable out of package
- With detachable PrecisionGlide™ needle
- Stainless-steel needle with polypropylene hub and Luer-Lok™ tip
- Cat. Nos. 14-826-11 and 14-826-7 are intramuscular needles with a thin-wall design

Capacity	Graduations	Gauge	Needle Length	Mfr. No.	Cat. No.	Pack of 100	Case of
3cc	1/10cc	25	16mm (5/8")	309570	**14-826-82**	18.96	8/118.20
3cc	1/10cc	25	25mm (1")	309581	**14-829-13B**	18.96	8/118.20
3cc	1/10cc	25	38mm (1 1/2")	309582	**14-829-13C**	18.96	8/118.20
3cc	1/10cc	23	25mm (1")	309571	**14-823-37**	18.84	8/117.50
3cc	1/10cc	22	25mm (1")	309572	**14-826-83**	18.96	8/118.20
3cc	1/10cc	22	38mm (1 1/2")	309574	**14-826-85**	18.96	8/118.20
3cc	1/10cc	21	25mm (1")	309575	**14-826-5F**	18.96	8/118.20
3cc	1/10cc	21	38mm (1 1/2")	309577	**14-826-84**	18.96	8/118.20
3cc	1/10cc	20	25mm (1")	309578	**14-826-86**	26.80	8/172.40
3cc	1/10cc	18	38mm (1 1/2")	309580	**14-826-5E**	27.25	8/174.30
3cc	1/10cc	20	38mm (1 1/2")	309579	**14-829-13Ω**	27.45	8/175.50
3cc	1/10cc	23	25mm (1")	309588	**14-826-7**	18.96	8/118.20
3cc	1/10cc	23	38mm (1 1/2")	309589	**14-826-11**	18.96	8/118.20
5cc	1/5cc	22	25mm (1")	309630	**14-829-16C**	35.75	4/112.00
5cc	1/5cc	21	25mm (1")	309632	**14-823-69**	36.50	4/114.30
5cc	1/5cc	21	38mm (1 1/2")	309633	**14-827-48**	36.75	4/115.10
5cc	1/5cc	20	25mm (1")	309634	**14-829-16G**	35.85	4/114.90
5cc	1/5cc	20	38mm (1 1/2")	309635	**14-827-49**	35.85	4/115.30
10cc	1/5cc	22	25mm (1")	309640	**14-829-18B**	39.15	4/122.70
10cc	1/5cc	21	25mm (1")	309642	**14-823-36**	39.15	4/122.80
10cc	1/5cc	21	38mm (1 1/2")	309643	**14-823-12**	39.15	4/122.70
10cc	1/5cc	20	38mm (1 1/2")	309645	**14-829-18G**	37.95	4/121.90

BD™ Luer-Lok™ Disposable Syringes without Needles

PrecisionGlide™ and Yale™ disposable and reusable needles are available

Luer-Lok Disposable Syringes

- Supplied with tip shield
- All syringes are for general purposes
- 14-827-52 control syringe
- Slip tip, Luer-Lok™ tip/cap available separately

Capacity	Point Style	Graduations	Mfr. No.	Cat. No.	Pack of	Case of
10mL	Slip Tip	0.2mL	301604	**14-826-13**	100/25.25	4 Pk./80.30
10mL	Luer-Lok	0.2mL	309604	**14-823-2A**	100/24.30	4 Pk./78.70
10mL (Control Syringe)	Luer-Lok	0.2mL	309695	**14-827-52**	100/144.30	----

BD™ Multifit Reusable Luer-Lok™ Syringes

Made of special shockproof glass

14-823-10 Series

- Precisely engineered so that every plunger fits every barrel of the same catalog number
- Calibrated scale fixed into barrel for permanence
- Molded barrel for friction-free operation
- Use with PrecisionGlide™, Yale™ and Perfektum™ needles
- Luer-Lok tips made of chrome-plated brass attached to reinforced heavy glass base

Capacity	Mfr. No.	Cat. No.	Each	Case of
2cc	512440	**14-823-10A**	75.20	36/2100.00
5cc	512441	**14-823-10B**	88.80	36/2490.00
10cc	512442	**14-823-10C**	111.80	36/3220.00
20cc	512443	**14-823-10D**	120.80	12/1228.00

Needles and Accessories

BD™ General Use and PrecisionGlide™ Hypodermic Needles

Fit any Luer-Lok™, slip tip or eccentric tip syringe

14-826 Series

Sterile disposable needles with superior sharpness minimize patient discomfort.

- Sheath protects point and cannula
- Cannula are siliconized to reduce resistance and maintain speed and smoothness throughout injection
- All have regular bevel, except 14-826-10, which has intradermal bevel
- 14-826-52, -6A, -6B, and -6C needles have thin-wall design
- 14-826-6A is for subcutaneous use and has the same flowrate as larger 25-gauge needle
- 14-826-6B and -6C are for intramuscular use and have the same flowrate as larger 22-gauge needle
- 14-826-52 has the same flowrate as larger 18-gauge needle
- Needle hub fits any Luer-Lok or Luer slip syringe tip, reusable or disposable
- Individual Easy Peel™ blister pack packages boxed in strips of five needles; package carries lot control number
- Hubs color coded by gauge size: Gray (27-gauge), Tan (26), Blue (25), Turquoise (23), Black (22), Green (21), Yellow (20), Brown (19), Pink (18) and Purple (16)

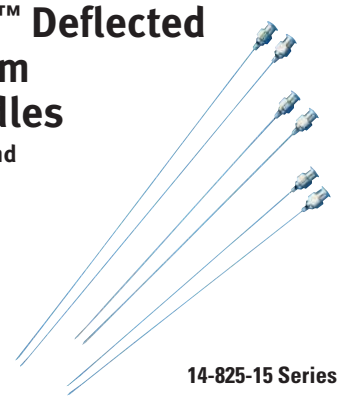
ORDERING INFORMATION:
Package carries lot control number to indicate complete sterility.

Gauge	O.D.	Length	Mfr. No.	Cat. No.	Pack of 100	Case of 10 Packs
27	0.41mm	13mm (1/2")	305109	**14-826-48**	12.16	92.20
26	0.46mm	9.5mm (3/8")	305110	**14-826-10**	12.26	93.10
26	0.46mm	13mm (1/2")	305111	**14-826-15**	12.06	91.60
26	0.46mm	16mm (5/8")	305115	**14-826-6A**	12.92	100.70
25	0.51mm	16mm (5/8")	305122	**14-826AA**	11.94	90.90
25	0.51mm	38mm (1 1/2")	305127	**14-826-49**	12.06	91.60
23	0.64mm	25mm (1")	305145	**14-826A**	13.80	112.10
23	0.64mm	25mm (1")	305193	**14-826-6B**	12.83	99.60
23	0.64mm	38mm (1 1/2")	305194	**14-826-6C**	12.84	100.00
22	0.71mm	25mm (1")	305155	**14-826B**	13.85	112.50
22	0.71mm	38mm (1 1/2")	305156	**14-826-5A**	12.06	91.60
21	0.81mm	25mm (1")	305165	**14-826C**	13.85	112.50
21	0.81mm	38mm (1 1/2")	305167	**14-826-5B**	11.94	90.90
20	0.89mm	25mm (1")	305175	**14-826-D**	12.63	96.10
20	0.89mm	38mm (1 1/2")	305176	**14-826-5C**	12.51	95.00
19	1.08mm	38mm (1 1/2")	305187	**14-826-52**	----	94.70
18	1.24mm	25mm (1")	305195	**14-826-5G**	12.63	96.20
18	1.24mm	38mm (1 1/2")	305196	**14-826-5D**	12.47	94.40
16	1.65mm	25mm (1")	305197	**14-826-18A**	29.70	233.00
16	1.65mm	38mm (1 1/2")	305198	**14-826-18B**	29.70	233.00

Cadence Science™ Deflected Noncoring Septum Penetration Needles

Use in gas chromatography and nuclear magnetic resonance spectroscopy procedures

- Stainless-steel needles with deflected noncoring septum
- For noncoring penetration of septa and rubber closures involving air-sensitive and pyrophoric compounds



14-825-15 Series

Gauge	Length	Mfr. No.	Cat. No.	Pack of
22	1.5" (3.8cm)	4173	**14-825-15K**	12/155.10
22	2" (5.1cm)	4174	**14-825-15L**	12/145.20
22	4" (10.2cm)	4175	**14-825-15M**	12/145.20
22	6" (15.2cm)	4176	**14-825-15N**	12/154.20
21	6" (15.2cm)	4181	**14-825-15T**	12/158.30
20	2" (5.1cm)	4184	**14-825-15X**	12/145.20
20	4" (10.2cm)	4185	**14-825-15Y**	12/145.20
20	6" (15.2cm)	4186	**14-825-15Z**	12/158.30
20	8" (20.3cm)	4187	**14-825-15AA**	12/158.30
20	12" (30.5cm)	4188	**14-825-15AB**	12/169.00
19	4" (10.2cm)	4190	**14-825-15AD**	12/145.20
19	6" (15.2cm)	4191	**14-825-15AE**	12/158.30
18	1.5" (3.8cm)	4192	**14-825-15AF**	12/151.80
18	2" (5.1cm)	4193	**14-825-15AG**	12/151.24
18	4" (10.2cm)	4194	**14-825-15AH**	12/151.24
18	6" (15.2cm)	4195	**14-825-15AJ**	12/184.50
18	12" (30.5cm)	4196	**14-825-15AK**	12/206.50

Special Application

BD™ Tuberculin Syringes

Sterile, disposable syringe with Luer slip tip

- Color-coded needle package and hub
- In Easy Peel™ package; autoclavable out of package
- Available with or without detachable PrecisionGlide™ needle

Capacity	Gauge	Needle Length	Mfr. No.	Cat. No.	Pack of 100	Case of 8 Packs
1mL	27	13mm	309623	**14-826-87**	24.40	155.20
1mL (Intradermal)	26	9.5mm	309625	**14-823-2E**	35.00	180.90
1mL	21	16mm	309626	**14-826-88**	24.05	153.30
1mL	21	25.4mm	309624	**14-829-10D**	24.40	155.10

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Hamilton Company Neuros™ 700/1700 Series Microliter™/Gastight™ Syringes

Hamilton Company offers the most comprehensive selection of standard and custom syringes in the industry. Each is manufactured to achieve the highest level of accuracy and precision possible.

14-815-901

Hamilton Neuros syringe technology provides unprecedented functionality for controlled animal injections.

- An industry first, the Neuros accurately dispenses 50nL to 100µL of liquid through an ultrafine 30 or 33 gauge needle protected by a custom-designed sleeve
- Developed specifically for the neurosciences, the Neuros minimizes injection site damage by increasing needle rigidity and delivering a microvolume of liquid to an exact location

Syringes

- Crafted to have very little to no dead volume which preserves the maximum amount of buffer and solution
- Feature two different needle sleeves: sleeve with a blind stop is perfect for cannulated applications and ensures targeted administration with an adjustable penetration depth

Neuros Syringe Termination

- Removable Needle (RN) — The needles are removable and are a Hamilton-specific design
- The design allows the needles to seat precisely at the zero graduation mark of the syringe

Needle Point Style

- Point Style 3 — special blunt needle point suited for neuroscience applications

Specifications	
Autoclavable	No
Needle Dimensions	1 in. (25.4mm) exposed
Needle Gauge	33
Point Style	3
Sterile	Yes
Temperature	10°C (50°F)/50°C (122°F)
Pressure Limit	2000 psig (137.9 bar)
Materials in Fluid Path	SST, Borosilicate glass
Standard Needle Dead Volume	0.79µL

Description	Volume	Mfr. No.	Cat. No.	Each
Microliter				
Model 75 RN Neuros Syringe	5µL	65460-02	**14-815-906**	227.00
Model 7000.5 KH Neuros Syringe	0.5µL	65457-01	**14-815-901**	264.00
Model 7002 KH Neuros Syringe	2µL	65459-01	**14-815-903**	264.00
Model 7001 KH Neuros Syringe	1µL	65458-01	**14-815-902**	264.00
Gastight				
Model 1701 RN Neuros Syringe	10µL	65460-05	**14-815-907**	211.00

Hamilton Company 700/1700 Series Microliter™/Gastight™ Syringes

Specifications			
Microliter		***Gastight***	
Barrel Outer Diameter	0.260 inches (6.60mm)	**Barrel Outer Diameter**	0.305 inches (7.75mm)
Autoclavable	Yes	**Autoclavable**	No
Fluid Path	SST, Borosilicate glass	**Fluid Path**	SST, Borosilicate glass, PTFE
Gas Sterilizable	No	**Gas Sterilizable**	Yes
Maximum Pressure	2000 psig (137.9 bar)	**Maximum Pressure**	1000 psig (68.9 bar)
Temperature Range	Max: 50°C / 122°F Min: 10°C / 50°F	**Temperature Limit**	Max: 115°C / 239°F Min: 10°C / 50°F

Neuros 700/1700 Series Syringe

Description	Volume	Inner Dia.	Outside Dia.	Mfr. No.	Cat. No.	Price
Microliter						
Model 75 RN	5µL	0.014 in. (0.343mm)	0.260 in. (6.60mm)	7634-01	**14-824-651**	76.00
Gastight						
Model 1701 RN	10µL	0.018 in. (0.460mm)	0.305 in. (7.75mm)	7653-01	**14-824-652**	44.10
Model 1702 RN	25µL	0.029 in. (0.729mm)	0.305 in. (7.75mm)	7654-01	**14-824-653**	44.10
Model 1705 RN	50µL	0.041 in. (1.03mm)	0.305 in. (7.75mm)	7655-01	**14-824-654**	46.20
Model 1710 RN	100µL	0.057 in. (1.46mm)	0.305 in. (7.75mm)	7656-01	**14-824-655**	52.50

Tachometers

Fisher Scientific™ Traceable™ Digital Tachometers

Vivid 0.5" high display

05-028-23

- Measures the speed of a centrifuge from a distance up to 12" (30cm)
- Five-digit LCD; memory feature lets you recall the highest, lowest and last reading
- Rugged ABS case

Touchless and Contact Measurements Model

- Use the touchless sensor to get speed readouts in rpm; use the contact sensor for direct readout of surface speeds in feet per minute or meters per minute
- Detects speeds from 0.1 to 99,999rpm; resolution is 0.1 below 1000 and 1 above 1000
- Contact sensor provides readouts from 0.1 to 19,999rpm, 0.05 to 1999.9m/min. or 0.2 to 6560'/min; accuracy, 0.05% + 0.1rpm from 0 to 999.9rpm and 0.05% + 1rpm from 1000 to 99,999rpm
- Dimensions: 8.50L × 2.50W × 1.50"H (21.5 × 6 × 4cm); weight: 10.50 oz. (298g)

Touchless Measurements Model

- Detects speeds from 10 to 99,999rpm; resolution is 0.1 below 1000 and 1 above 1000
- Measures the speed of a centrifuge from a distance of 2 to 78" (5.1 to 198cm)
- Unit is accurate to within 0.05% of full scale
- Indicator on the display panel automatically alerts you when the battery is low
- Dimensions: 7.50L × 2.75W × 1.50"H (19 × 7 × 4cm); weight: 9 oz. (255g)

INCLUDES:
Touchless and Contact Measurements Model is supplied with four AA alkaline 1.5V batteries, rugged ABS case, self-adhesive reflecting tabs, internal light, cone and two wheels (for measuring speeds) and a carrying case

Touchless Measurements Model is supplied with four AA alkaline 1.5V batteries, rugged ABS case, self-adhesive reflecting tabs, internal light and carrying case

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
For Touchless and Contact Measurements	**05-028-23**	447.00
For Touchless Measurements Only	**05-028-24**	417.50

Fisher Scientific™ Traceable™ Tachometer Laser

Touchless, handheld point-and-shoot

02-401-3

Precision quartz crystal ensures stable, repeatable results.

- Five-digit resolution is 0.001, 0.01, 0.1 or 1, depending on revolutions displayed
- HOLD button freezes results
- Accuracy is 0.04% ±2 digits
- 0.50" (1.2cm) high LCD digits can be read from 10'
- Low-battery condition indicated on the display
- Impact-resistant ABS housing
- Dimensions: 4.75 × 1.75 × 1.25" (12 × 4 × 3cm)
- Weight: 4 oz. (113g)

To Use:

- Optical no-contact measurements are made by placing a piece of self-adhesive reflective tape (30" [76cm] tape supplied) on the rotating object
- Red LED light locks on the tape and counts rotations
- In two seconds, it provides rock-solid answers from 10 to 99,999rpm
- Designed to measure centrifuges, pumps, rollers, shafts, gears, motors and moving surfaces

ORDERING INFORMATION:
Dimensions: 4.75 × 1.75 × 1.25" (12 × 4 × 3cm). Weight: 4 oz. (113g)

INCLUDES:
9V battery

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate provided from an ISO 17025 calibration laboratory indicating traceability to standards provided by NIST™.

Cat. No.	Each
02-401-3	139.00

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Tape

Fisherbrand® Lead-Free Autoclave Tape

"AUTOCLAVED" appears in steam-sensitive ink when steam-sterilized.

- Sticks securely
- Removes easily without leaving sticky residue behind
- Can be used in temperatures ranging from -23° to +121°C (-9° to +250°F)
- Lead-free material

15-999-12A

Handling

- Use in a well-ventilated area
- Avoid contact with skin, eyes and clothing
- Wash thoroughly after handling
- Keep container tightly closed when not in use

STORAGE:
Ambient conditions. Protect from extreme temperatures.

L x W	Cat. No.	Pack of
41.7' × 0.5"	**15-999-12A**	6/25.15
41.7' × 0.75"	**15-999-34A**	4/24.40
41.7' × 1"	**15-999-100A**	3/24.65

Fisherbrand® 2" Industrial-Grade Vinyl Cleanroom Tape

For light industrial use, clean construction and cleanroom support

Vinyl Cleanroom Tape

- For use in areas where ultraclean tape is not required
- Forms a strong bond with plastics, polymers and stainless-steel without leaving adhesive residue when removed
- Can be written on with cleanroom pen
- Processed in a controlled environment
- Wound on a plastic core and sleeve-bagged
- Rolls are 2" wide (5.1cm) by 36 yd. long (33m)

COMPLIANCE:
Complies with Federal Specifications PPP-T-66E and CID A-A 1689A

Color	Cat. No.	Case of 24
White	**19-095-108**	460.00

Fisherbrand® Colored Label Tape: 0.5" Wide

Available in two lengths and a variety of colors

15-901 Series

- Strong, durable and oil-, water- and acid-resistant
- Excellent for color coding
- Withstands temperatures from -23° to +121°C (-10° to +250°F)
- Can be written on with pen, pencil or permanent marker
- Stick to most surfaces including glass, plastic and metal
- Remove cleanly and easily

NOTES:
Tapes are supplied without dispenser.

Color	Cat. No.	Each	Case of 4	Cat. No.	Each
14 yd. (13m) Rolls				*60 yd. (55m) Rolls*	
Aqua	**15-901H**	45.40	155.10	**15-901-15H**	93.50
Blue	**15-901G**	44.50	152.10	**15-901-15G**	93.50
Copper	**15-901J**	45.40	155.10	**15-901-15J**	93.50
Gray	**15-901K**	53.70	183.50	**15-901-15K**	98.60
Green	**15-901C**	44.50	152.10	**15-901-15C**	93.50
Lavender	**15-901L**	45.40	155.10	**15-901-15L**	93.50
Lime	**15-901M**	45.25	154.70	**15-901-15M**	93.50
Orange	**15-901F**	45.40	155.10	**15-901-15F**	93.50
Pink	**15-901D**	45.40	155.10	**15-901-15D**	93.50
Red	**15-901E**	44.50	152.10	**15-901-15E**	93.50
Rose	**15-901N**	45.40	155.10	**15-901-15N**	93.50
Violet	**15-901Q**	45.40	155.10	**15-901-15Q**	93.50
White	**15-901A**	44.50	152.10	**15-901-15A**	91.70
Yellow	**15-901B**	44.50	152.10	**15-901-15B**	91.70

LOOKING FOR MORE LABEL TAPES?

Label tapes are also located in the Labeling section of this catalog.

Fisherbrand® Colored Label Tape: Rainbow Pack

Available on 14 yd. (13m) rolls

- Strong, durable and oil-, water- and acid-resistant
- Excellent for color coding
- Withstand temperatures from -23° to +121°C (-10° to +250°F)
- Can be written on with pen, pencil or permanent marker
- Stick to most surfaces including glass, plastic and metal
- Remove cleanly and easily

ORDERING INFORMATION: Dispensers sold separately.

15-901 Series

Width	Case Includes	Cat. No.	Case of
0.50" (13mm)	Blue (3), Pink (3), Green (3), Red (3), Orange (3), Yellow (4), White (5)	**15-901R**	24/149.10
0.75" (19mm)	Blue (2), Pink (2), Green (2), Red (2), Orange (2), Yellow (2), White (4)	**15-901-5R**	16/133.30
1" (25mm)	Blue (1), Pink (2), Green (2), Red (2), Orange (1), Yellow (2), White (2)	**15-901-10R**	12/132.10

Fisherbrand® Self-Adhesive Label Tape

All-purpose — sticks to plastics during autoclaving

- Sticks to glass, plastic, paper and wood from -23° to +121°C (-9° to +250°F)
- Especially suited for use in autoclave, refrigerator, deep freeze, sterilizer and incubator
- Easily marked with pencil, pen, ballpoint and most felt-tip markers
- Removes without residue
- Oil, water and acid resistant

15-939

Width	Cat. No.	Each	Case of 4
14 yd. (13m) Rolls			
1/2" (13mm)	**15-937**	31.30	106.90
3/4" (19mm)	**15-938**	44.60	152.40
1" (25mm)	**15-939**	29.35	100.30
1 1/2" (38mm)	**15-940**	32.75	111.90
2" (51mm)	**15-941**	35.50	121.30
60 yd. (55m) Roll			
1" (25mm)	**15-935**	78.82	279.00

Fisherbrand® Multiple-Roll Tape Dispensers

Accommodate 1" core

- For dispensing multiple rolls with a 1" dia. (25mm) core (14 yd. [13m] of tape)
- Accommodate 0.50, 0.75, or 1" wide (13, 19, or 25mm) tapes for a total dispensing width of 9.50" (24cm)
- Dispensers stay put with bottom suction cups

ORDERING INFORMATION:
Order tape separately

For	Cat. No.	Each
14 yd. (13m) tape	**15-912**	45.90
60 yd. (55m) tape	**15-909**	99.90

15-912

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermometers

Analog

Fisherbrand® Precision Liquid-in-Glass Partial Immersion Thermometers

13-201-630

- Individually serialized and packaged in Safety-Pak™ packaging
- Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD and/or equivalent standards
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment that has calibration traceable to NIST

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Traceable to NIST	Traceable to DAkkS	Cat. No.	Case of 10
Blue Organic	White Back	-1/51°C	0.1	18.1 in. (460mm)	3.0 in. (76mm)	1°C	Yes	No	**13-201-630**	42.30

H-B Instrument™ Precision Liquid-in-Glass Partial Immersion Thermometers

- Individually serialized and packaged in Safety-Pak™ packaging
- Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD and/or equivalent standards
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment that has calibration traceable to NIST

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Traceable to NIST	Traceable to DAkkS	Mfr. No.	Cat. No.	Each
Blue Organic	White Back	-1/101°C	0.1	24.0 in. (610mm)	3.0 in. (76mm)	1°C	Yes	No	B60730-0120	**13-201-631**	43.05
Blue Organic	White Back	-1/201°C	0.2	24.0 in. (610mm)	3.0 in. (76mm)	1°C; 1.5°C above 100°C	Yes	No	B60730-0220	**13-201-632**	55.40
Blue Organic	White Back	30/124°F	0.2	18.1 in. (460mm)	3.0 in. (76mm)	2°F	Yes	No	B60730-0300	**13-201-633**	66.00
Blue Organic	White Back	30/394°F	0.5	24.0 in. (610mm)	3.0 in. (76mm)	2°F; 3°F above 212°F	Yes	No	B60730-0500	**13-201-635**	84.09

H-B Instrument™ Precision Liquid-in-Glass Total Immersion Thermometers

- Individually serialized and packaged in Safety-Pak™ packaging
- Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD and/or equivalent standards
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment that has calibration traceable to NIST

13-201-638

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Traceable to NIST	Traceable to DAkkS	Mfr. No.	Cat. No.	Each
Blue Organic	White Back	30/214°F	0.2	24.0 in. (610mm)	Total	2°F	Yes	No	B60730-1400	**13-201-638**	56.66
Blue Organic	White Back	30/394°F	0.5	24.0 in. (610mm)	Total	2°F; 3°F above 212°F	Yes	No	B60730-1500	**13-201-639**	79.60
Blue Organic	White Back	-1/51°C	0.1	18.1 in. (460mm)	Total	0.3°C	Yes	No	B60730-1020	**13-201-636**	40.35
Blue Organic	White Back	-1/201°C	0.2	24.0 in. (610mm)	Total	0.7°C; 1°C above 100°C	Yes	No	B60730-1220	**13-201-548**	65.30

H-B Instrument™ Nonmercury Verification Thermometers

To verify sample temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST

Color organic fill against white back

- 30mL bottle size, choice of bottle fills
- Individual serial numbers and a Statement of Accuracy traceable to NIST
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA laboratory

Range	Mfr. No.	Cat. No.	Each	Case of 10
-30° to +1°C	B60600-0599	**13-202-583**	31.00	297.00
-5° to +15°C	B60600-0699	**13-202-585**	29.50	297.00
15° to 50°C	B60600-1099	**13-202-589**	29.50	297.00

13-202-583

APPLICATIONS:
Ideal for the chemical, petrochemistry, pharmaceutical, medical and cosmetic industries; producers of chemicals, universities, dairies, breweries, distillers, beer cellars, refrigeration houses, hot houses, scientific institutes, blood banks, refrigeration/freezer/incubator/oven equipment producers and producers of laboratory equipment

H-B Instrument™ Durac™ Plus™ Precision Verification Thermometers

To verify sample temperatures in freezers, refrigerators, incubators and ovens

- 60mL bottle with glass-bead fill
- Divisions: 0.1
- Accuracy: 0.4°C
- Blue liquid fill on white backed glass makes it easier to confirm temperature in freezers, refrigerators, incubators

APPLICATIONS:
Ideal for chemical industry, petrochemistry, pharmaceutical, medical, cosmetic, producers of chemicals, university, dairies, breweries, distillers, beer cellars, refrigeration house, hot houses, scientific institutes, blood banks, refrigeration/freezer/incubator/oven equipment producers and producers of laboratory equipment.

13-201-586

INCLUDES:
Multilanguage (English, French, German, Italian, Portuguese and Spanish) Statement of Accuracy indicating accuracy traceable to NIST™.

WARRANTY:
Five-year limited.

Type	Temperature Range	Length	Mfr. No.	Cat. No.	Each
Freezer	-25° to -5°C	210mm (8.3")	B60600-0000	**13-201-582**	39.60
Refrigerator	-2° to +10°C	180mm (7.1")	B60600-0100	**13-201-583**	39.60
Incubator	15° to 30°C	180mm (7.1")	B60600-0200	**13-201-584**	57.10
Oven	95° to 115°C	200mm (7.9")	B60600-0300	**13-201-585**	54.70
Incubator	25° to 45°C	190mm (7.5")	B60600-0400	**13-201-586**	57.10

H B Instrument™ High-Precision Enviro-Safe™ FRIO-Temp™ Liquid-in-Glass Verification Thermometers

To verify sample temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST™, DAkkS/PTI

Each item features 0.2°C accuracy (0.4°C for the high-temperature model), individual serial numbers and a multilanguage (English, French, German, Italian, Portuguese and Spanish) Statement of Accuracy indicating accuracy traceable to NIST and DAkkS/PTB.

- Thermometer fill: Organic
- Divisions: 0.1
- Bottle size: 60mL
- Traceable to DAkkS/PTB
- Not precertified

CERTIFICATIONS:
ISO/IEC 17025:2005, DAkkS/PTB

13201523

For Use with	Temperature	Accuracy	Length	Mfr. No.	Cat. No.	Each
Freezer	-25° to -5°C	± 0.2°C	8.3" (210mm)	B61001-0100	**13-201-465**	38.70
Refrigerator	-2° to 10°C	± 0.2°C	7.1" (180mm)	B61001-0200	**13-201-523**	39.75
Incubator	15° to 30°C	± 0.2°C	7.1" (180mm)	B61001-0300	**13-201-524**	39.75
Incubator	25° to 45°C	± 0.2°C	7.5" (190mm)	B61001-0400	**13-201-466**	38.70
Oven	95°to 115°C	± 0.4°C	7.9" (200mm)	B61001-0500	**13-201-525**	39.75

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

H-B Instrument™ FRIO-Temp™ Precision Liquid-in-Glass Verification Thermometers

To verify sample temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST™ and DAkkS.

Each item features a fluoropolymer coating for safety, individual serial numbers and a multilanguage (English, French, German, Italian, Portuguese and Spanish) Statement of Accuracy indicating accuracy traceable to NIST and DAkkS.

- Tested and calibrated in triple-accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory against equipment who calibration is traceable to NIST and DAkkS

WARRANTY:
Five-year limited.

CERTIFICATIONS:
NIST, DAkkS

Type	Temperature Range	Length	Bottle Fill	Thermometer Fill	Accuracy	Mfr. No.	Cat. No.	Each
Read in °C								
Refrigerator	-5° to +15°C	4.9" (125mm)	Enviro-Safe	Enviro-Safe	0.5°C	B61004-0100	**13-202-508**	29.70
Blood Bank	-5° to +20°C	5.3" (135mm)	Enviro-Safe	Enviro-Safe	0.5°C	B61004-0400	**13-201-551**	33.70
Incubator	10° to 45°C	3.9" (98mm)	Enviro-Safe	Enviro-Safe	0.5°C	B61004-0200	**13-202-509**	29.70
Incubator	15° to 50°C	5.3" (135mm)	Enviro-Safe	Enviro-Safe	0.5°C	B61004-0500	**13-201-552**	33.70
Oven	20° to 130°C	5.7" (145mm)	Enviro-Safe	Enviro-Safe	1°C	B61004-0600	**13-201-553**	33.05
Oven	50° to 200°C	5.7" (145mm)	Glass Beads	Enviro-Safe	2°C, 4°C above 130°C	B61004-0700	**13-201-554**	65.70
Read in °F								
Incubator	-130 to +80°F	5.7" (145mm)	Glass Beads	Organic	2°F	B61004-0900	**13-201-470**	70.50
Freezer	-20 to +35°F	5.3" (135mm)	Enviro-Safe	Enviro-Safe	1°F	B61004-1200	**13-201-467**	62.30
Blood Bank	20° to 70°F	5.3" (135mm)	Enviro-Safe	Enviro-Safe	1°F	B61004-1000	**13-201-468**	62.30
Incubator	60° to 120°F	5.3" (135mm)	Enviro-Safe	Enviro-Safe	1°F	B61004-1100	**13-201-469**	63.20

Fisherbrand® PFA Safety Coated Liquid-In-Glass Partial Immersion Thermometers

Added safety and protection from breakage

In the event of breakage, the PFA flouropolymer safety coating keeps the liquid and glass encapsulated.

- Statement of Accuracy indicating accuracy traceable to NIST™
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA laboratory

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Traceable to NIST	Traceable to DKD	Cat. No.	Case of 25
Blue Organic	White Back	-10/110°C	1	7.9 in. (200mm)	2.0 in. (50mm)	1.5°C	Yes	No	**13-201-603**	18.24
Blue Organic	White Back	-10/150°C	1	7.9 in. (200mm)	2.0 in. (50mm)	1.5°C, 2°C above 100°C	Yes	No	**13-201-604**	19.98
Blue Organic	White Back	20/230°F	2	7.9 in. (200mm)	2.0 in. (50mm)	3°F, 4°F above 212°F	Yes	No	**13-201-605**	19.99
Blue Organic	White Back	-20/110°C	1	12.0 in. (300mm)	3.0 in. (76mm)	1.5°C	Yes	No	**13-201-606**	17.09
Blue Organic	White Back	-20/150°C	1	12.0 in. (300mm)	3.0 in. (76mm)	1.5°C, 2°C above 100°C	Yes	No	**13-201-607**	17.84
Blue Organic	White Back	0/230°F	2	12.0 in. (300mm)	3.0 in. (76mm)	3°F, 4°F above 212°F	Yes	No	**13-201-609**	18.29
Blue Organic	White Back	0/300°F	2	12.0 in. (300mm)	3.0 in. (76mm)	3°F, 4°F above 212°F	Yes	No	**13-201-610**	18.08

H-B Instrument™ Double-Safe™ Partial Immersion Thermometers

PFA-coated liquid-in-glass thermometers

Double-Safe Thermometers feature 1°C accuracy are filled with environmentally safe non-toxic, non-hazardous, biodegradeable Enviro-Safe™ liquid certified by ChemTel, an independent laboratory. Fluoropolymer coating helps prevent breakage and keeps liquid and glass contained in the event of breakage.

- Immersion type: Precision partial
- Thermometer fill: Enviro-Safe
- Comes with multi-language (English, French, German, Italian, Portuguese and Spanish) statement of accuracy
- Glass type: Yellow back

13-201-471

CERTIFICATIONS:
ISO/IEC 17025:2005, DAkkS/PTB certified, A2LA accredited

NOTES:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

Temperature Range	Accuracy	Divisions	Probe Length	Immersion Depth	Cat. No.	Each
-10° to +110°C	1°C	1.0	7.9" (200mm)	2.0" (50mm)	**13-202-512**	25.70
-10° to +150°C	1.0°C, 1.5°C above 110°C	1.0	7.9" (200mm)	2.0" (50mm)	**13-202-513**	25.55
20° to 230°F	2°F	2.0	7.9" (200mm)	2.0" (50mm)	**13-202-514**	25.70
20° to 300°F	2°F, 3°F above 230°F	2.0	7.9" (200mm)	2.0" (50mm)	**13-202-515**	24.99
-10° to +70°C	1°C	0.5	12" (305mm)	3.0" (76mm)	**13-201-471**	35.90
-20° to+110°C	1°C	1.0	12" (305mm)	3.0" (76mm)	**13-202-516**	33.05
-20° to +150°C	1°C, 1,5°C above 110°C	1.0	12" (305mm)	3.0" (76mm)	**13-202-517**	37.00
0° to 230°F	2°F	2.0	12" (305mm)	3.0" (76mm)	**13-202-518**	33.00
0° to 300°F	3°F, 4°F above 230°F	2.0	12" (305mm)	3.0" (76mm)	**13-202-519**	22.80
-10° to +260°C	1.5°C, 2°C above 110°C	1.0	14.0" (355mm)	3.0" (76mm)	**13-201-472**	39.60
20° to 500°F	1.5°F, 2°F above 230°F	2.0	14.0" (355mm)	3.0" (76mm)	**13-201-473**	26.60
-30° to +120°F	1°F	1.0	12.0" (300mm)	3.0" (76mm)	**13-202-490**	34.70

Fisherbrand® General Purpose Liquid-in-Glass Partial Immersion Thermometers

- Individually packaged in Safety-Pak™ packaging to prevent breakage
- Blue organic filled thermometers are individually serialized and include Statement of Accuracy traceable to NIST™
- Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD, and/or equivalent standards
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA laboratory

13-201-644

APPLICATIONS: Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

Accuracy	Division	Immersion Depth	Overall Length	Range	Cat. No.	Each
3°C, 4°C above 100°C	2	50mm (2.0")	200mm (7.9")	-10/110°C	**13-201-640**	7.25
3°C, 4°C above 100°C	2	50mm (2.0")	200mm (7.9")	-10/150°C	**13-201-641**	8.04
3°C, 6°C below -35°C	2	76mm (3.0")	300mm (12.0")	-50/50°C	**13-201-642**	11.21
1.5°C	1	76mm (3.0")	300mm (12.0")	-35/50°C	**13-201-643**	16.41
1.5°C, 2°C above 100°C	1	76mm (3.0")	300mm (12.0")	-20/110°C	**13-201-644**	6.40
1.5°C, 2°C above 100°C	1	76mm (3.0")	300mm (12.0")	-20/150°C	**13-201-645**	8.07
3°F, 6°F below -31°F	2	76mm (3.0")	300mm (12.0")	-40/120°F	**13-201-646**	15.53
3°F, 4°F above 212°F	2	76mm (3.0")	300mm (12.0")	0/230°F	**13-201-647**	7.17
3°F, 4°F above 212°F	2	76mm (3.0")	300mm (12.0")	0/300°F	**13-201-648**	8.15
1.5°C, 3°C below -35°C	1	76mm (3.0")	300mm (12.0")	-100/50°C	**13-201-521**	18.83
4°C, 5°C above 100, 6°C above 200°C	2	76mm (3.0")	350mm (14.0")	-10/260°C	**13-201-555**	31.00
4°F, 5°F above 212°F, 6°F above 392°F	2	76mm (3.0")	350mm (14.0")	20/500°F	**13-201-649**	11.22

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® General Purpose Liquid-in-Glass Partial Immersion Thermometers, Economical Grade

With red organic liquid with white back glass

- Individually packaged in Safety-Pak™ packaging to prevent breakage
- Individually serialized and tested and calibrated in triple accredited/registered ISO/IEC 17025:2005, A2LA laboratory

APPLICATIONS:
Used in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

Range	Accuracy	Divisions	Cat. No.	Each
-20° to +110°C	1.5°C, 2°C above 100°C	1	**13-201-663**	4.83
-40° to +120°F	3°F, 6°F below -31°F	2	**13-201-664**	11.06
0° to 230°F	3°F, 4°F above 212°F	2	**13-201-665**	4.76
0° to 300°F	3°F, 4°F above 212°F	2	**13-201-666**	10.21

Fisherbrand® General Purpose Liquid-in-Glass Total Immersion Thermometers

- Individually packaged in Safety-Pak™ packaging to prevent breakage
- Blue organic filled thermometers are individually serialized and include Statement of Accuracy traceable to NIST
- Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DKD, and/or equivalent standards
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA laboratory

13-201-654

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

Accuracy	Division	Fill Solution	Overall Length	Range	Standardization Temperature	Cat. No.	Each
3°F, 4°F above 212°F	2	Red Organic	300mm (12.0")	0° to +230°F	No	**13-201-670**	8.75
3°F, 4°F above 212°F	2	Red Organic	300mm (12.0")	0° to +300°F	No	**13-201-671**	9.83
3°C, 4°C above 100°C	2	Blue Organic	200mm (7.9")	-10° to +110°C	Yes	**13-201-650**	7.25
1.5°C	1	Blue Organic	300mm (12.0")	-35° to +50°C	Yes	**13-201-653**	20.30
1.5°C, 2°C above 100°C	1	Blue Organic	300mm (12.0")	-20° to +110°C	Yes	**13-201-654**	5.16
3°F, 6°F below -31°F	2	Blue Organic	300mm (12.0")	-40° to +120°F	Yes	**13-201-656**	16.18
3°F, 4°F above 212°F	2	Blue Organic	300mm (12.0")	0° to 230°F	Yes	**13-201-657**	6.38
3°F, 4°F above 212°F	2	Blue Organic	300mm (12.0")	0° to 300°F	Yes	**13-201-658**	7.48
1.5°C, 3°C below -35°C	1	Blue Organic	350mm (14.0")	-100° to +50°C	Yes	**13-201-659**	16.64
3°C, 6°C below -35°C	2	Blue Organic	350mm (14.0")	-200° to +30°C	Yes	**13-201-660**	99.50
4°C, 5°C above 100°C, 6°C above 200°C	2	Blue Organic	350mm (14.0")	-10° to +225°C	Yes	**13-201-556**	11.20
4°F, 5°F above 212°F, 6°F above 392°F	2	Blue Organic	350mm (14.0")	20° to 440°F	Yes	**13-201-661**	16.69
1.5°C, 2°C above 100°C	1	Blue Organic	300mm (12.0")	-20/150°C	Yes	**13-201-655**	8.32

Fisherbrand® **OUTFIT YOUR LAB WITH FISHERBRAND**

Fisherbrand outfits every part of your workspace. Whether you are working on the bench, in the freezer, in the hood, on the shelf or in the field, Fisherbrand has products to fit your every need. View our portfolio of over 10,000 products at **www.fishersci.com/fisherbrand.**

Enviro-Safe™ Easy-Read™ General Purpose Liquid-in-Glass Thermometers

Environmentally friendly liquid-in-glass thermometers

- Green EnviroKleen™ certified environmentally friendly Enviro-Safe™ liquid and recyclable SafetyPak™ packaging
- White-back lead-free glass
- Individually serialized
- Statement of Accuracy indicating accuracy traceable to NIST™ and DAkkS
- Tested, calibrated and certified (where applicable) in our triple accredited/registered ISO 17025:2005 laboratory

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

Range	Accuracy	Fill Solution	Divisions	Immersion	Length	Immersion Depth	Glass Type	Approvals	Mfr. No.	Cat. No.	Each
-35° to +50°C	1°C	Enviro-Safe	0.5	Partial	12" (300mm)	3" (76mm)	Yellow Back	Traceable to NIS, DAkkS	B60301-0100	**13-201-478**	30.55
-10° to +100°C	0.5°, 1° below 0° and above 70°C	Enviro-Safe	1	Partial	7.9" (200mm)	2" (50mm)	Yellow Back	Traceable to NIS, DAkkS	B60300-0000	**13-202-531**	14.73
-10 ° to +150°C	0.5°, 1° below 0° and above 70°C; 1.5° above 110°C	Enviro-Safe	1	Partial	7.9" (200mm)	2" (50mm)	Yellow Back	Traceable to NIS, DAkkS	B60300-0100	**13-202-532**	15.79
20° to 300°F	0.5°F, 1° below 32° and above 158°F, +/1 1.5° above 230°F	Enviro-Safe	2	Partial	7.9" (200mm)	2" (50mm)	Yellow Back	Traceable to NIS, DAkkS	B60300-0300	**13-202-534**	22.00
-20° to +150°C	0.5°, 1° below 0° and above 70°C, 1.5° above 110°C	Enviro-Safe	1	Partial	12" (300mm)	3" (76mm)	Yellow Back	Traceable to NIS, DAkkS	B60301-0300	**13-202-537**	21.20
-30° to +120°F	1°F	Enviro-Safe	1	Partial	12" (300mm)	3" (76mm)	Yellow Back	Traceable to NIS, DAkkS	B60301-0400	**13-202-538**	20.80
0° to 230°F	0.5°F. 1° above 158°F	Enviro-Safe	2	Partial	12" (300mm)	3" (76mm)	Yellow Back	Traceable to NIS, DAkkS	B60301-0500	**13-202-539**	20.15
0° to 300°F	0.5°F, 1° below 32° and above158°F, 1.5° above 230°F	Enviro-Safe	2	Partial	12" (300mm)	3" (76mm)	Yellow Back	Traceable to NIS, DAkkS	B60301-0600	**13-202-540**	20.02
-10 ° to +260°C	1°C, 1.5° above 110°C, 2 ° above 200°C	Enviro-Safe	1	Partial	12" (350mm)	3" (76mm)	Yellow Back	Traceable to NIS, DAkkS	B60302-0000	**13-202-541**	25.10
20° to 230°F	0.5°F, 1° below 32° and above 158°F	Enviro-Safe	2	Total	7.9" (200mm)	NA (NA)	Yellow Back	Traceable to NIS, DAkkS	B60303-0200	**13-202-545**	18.45
-20° to +150°C	0.5°C, 1° below 0° and above 70°C, 1.5° above 110°C	Enviro-Safe	1	Total	12" (300mm)	NA (NA)	Yellow Back	Traceable to NIS, DAkkS	B60304-0200	**13-202-548**	19.51

Enviro-Safe™ General Purpose Partial Immersion Liquid-in-Glass Thermometers

Individually serialized with a Statement of Accuracy indicating traceability to NIST™

Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industries, medical industries, manufacturers, dairies, brewers and distilleries.

- EnviroKleen™ certified environmentally friendly Enviro-Safe liquid and recyclable SafetyPak™ packaging
- Individual serial numbers; Traceability Certificate indicating accuracy traceable to NIST™ and DAkkS
- Tested and calibrated in our triple accredited/registered ISO 17025:2005 laboratory

CERTIFICATIONS:
Accurate to the requirements of ANSI/SAMA Z236.1-1983, ASTM, NIST, DAkkS and/or equivalent standards.

Length	Temperature Range	Divisions	Accuracy	Mfr. No.	Cat. No.	Each
2" (50mm) Immersion						
7.9" (200mm)	-10° to +150°C	1.0	1°C, 1.5° above 110°C	B60501-0100	**13-202-555**	16.44
7.9" (200mm)	-10° to +110°C	1.0	1°C	B60501-0000	**13-202-554**	15.34
7.9" (200mm)	20° to 230°F	2.0	2°F	B60501-0200	**13-202-556**	22.55
7.9" (200mm)	20° to 300°F	2.0	2°F, 3° above 230°F	B60501-0300	**13-202-557**	9.17
3" (76mm Immersion						
11.8" (300mm)	-20° to +150°C	1.0	1°C, 1.5° above 110°C	B60502-0200	**13-202-559**	16.72
13.8" (350mm)	-10° to +260°C	1.0	1.5°C, 2° above 110°C, 2.5° above 200°C	B60503-0000	**13-202-562**	24.85

H-B Instrument™ Easy Read™ Certified Precision Partial Immersion Thermometers

For precise measurements without the hazard of mercury

Feature black EnviroKleen™, a certified environmentally friendly Enviro-Safe™ liquid, and yellow-backed glass for easy reading and fewer errors.

- Immersion type: Partial
- Thermometer fill: EnviroKleen Enviro-Safe
- Glass type: Yellow back
- Length: 12" (300mm)
- Immersion: Partial, 3" (76mm)
- Individually packaged in recyclable heavy-duty storage box

13-201-56 Series Partial Immersion Thermometers

INCLUDES:
A detailed Calibration Report stating corrections to one-tenth of the smallest division and individual serial number

CERTIFICATIONS:
ISO/IEC 17025:2005, DAkkS/PTB certified

Temperature	Accuracy	Divisions	Temperature Calibration Points	Mfr. No.	Cat. No.	Each
-10° to +70°C	0.5°C	0.5°C	0°C, 37°C, 56°C	B60202-0000	**13-201-561**	234.00
-10° to +70°C	0.75°C	1°C	0°, 50°, 100°C	B60202-0100	**13-201-476**	228.00
-20° to +110°C	0.75°C	1°C	0°, 37°, 56°C	B60202-0300	**13-202-528**	278.50
-20° to +150°C	0.75°C/1.0 >70°C/1.5°C >105°C	1°C	0°C, 60°C, 120°C	B60202-0400	**13-201-563**	230.00
-20° to +110°C	0.75°C	1°C	0°, 4°, 20°, 37°, 44.5°, 103°C	B60202-0500	**13-201-477**	349.00

H-B Instrument™ Easy-Read™ Certified Total Immersion Thermometers

Features 1°C or better accuracy

Filled with EnviroKleen™, an environmentally safe nontoxic, nonhazardous, biodegradeable Enviro-Safe liquid certified by an independent triple-accredited laboratory.

- Immersion type: Total
- Thermometer fill: EnviroKleen Enviro-Safe liquid
- Glass type: Yellow back
- Divisions: 1°C
- A detailed Calibration Report stating corrections to one-tenth of the smallest division and individual serial number
- Traceable to NIST™ and DAkkS

13-201-56 Series Total Immersion Thermometers

APPLICATIONS:
Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

INCLUDES:
Calibration Report stating corrections to one-tenth of the smallest division and individual serial number

CERTIFICATIONS:
ISO/IEC 17025:2005, DAkkS/PTB

Temperature range	Accuracy	Divisions	Certification Points	Length	Mfr. No.	Cat. No.	Each
-20° to +110°C	1°C	1	0°, 50°, 100°C	12" (300mm)	B60202-0600	**13-201-560**	227.50
-20° to +110°C	1°C	1	0°, 37°, 56°C	12" (300mm	B60202-0700	**13-202-529**	283.00
-20° to +150°C	1°C	1	0°, 60°, 120°C	12" (300mm)	B60202-0800	**13-201-562**	230.00
-10° to +225°C	1°C	1	1°, 100°, 200°C	14" (350mm)	B60202-0900	**13-201-564**	281.00

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

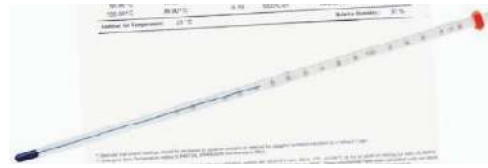
H-B Instrument™ Durac™ Plus™ Certified Total Immersion Thermometers

With accuracy of 1.5°C or better

- Blue organic liquid filled against white back glass
- Tested and certified in triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory
- Individually packaged
- For use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries

INCLUDES:
Calibration report stating corrections to one-tenth of the smallest division and feature individual serial numbers

CERTIFICATIONS:
ISO/IEC 17025:2005 certified



13-201-625

Temperature Range	Divisions	Accuracy	Mfr. No.	Cat. No.	Each
Length: 12" (305mm)					
-20° to +110°C	1°C	±1.5°C	B60205-1100	**13-201-549**	136.30
-20° to +150°C	1°C	±1.5, ±2 Above 105°C	B60205-1200	**13-201-625**	239.98
-10° to +225°C	1°C	1°C	B60205-1300	**13-201-626**	266.00
Length: 18.1" (460mm)					
-1° to +51°C	0.1°C	1°C	B60205-1400	**13-201-627**	302.50
-1° to +101°C	0.1°C	1°C	B60205-1500	**13-201-628**	528.50
Length: 24" (610mm)					
-1° to +201°C	0.2°C	1°C	B60205-1600	**13-201-629**	525.00

H-B Instrument™ Durac™ Plus™ Certified Partial Immersion Thermometers

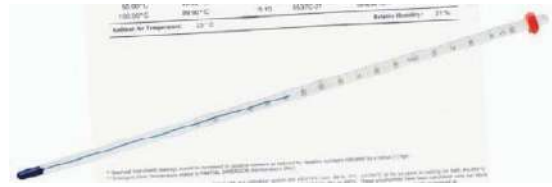
For precise measurements featuring an individual serial number with a Calibration Report

Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

- Immersion type: Partial
- Thermometer fill: blue organic
- Glass type: White back
- Immersion: 3" (76mm)
- Individually packaged

WARRANTY:
Five-year limited

CERTIFICATIONS:
ISO/IEC 17025:2005 certified



13-201-621

Accuracy	Temperature Range	Divisions	Temperature Calibration Points	Length	Mfr. No.	Cat. No.	Case of 10
2, 3 Below -50°C	-100° to +50°C	1°	-78°, -20°, 0°, 4°, 37°C	12" (305mm)	B60205-0000	**13-201-520**	319.50
1.5°C	-20° to +110°C	1°	0°, 50°,100°C	12" (305mm)	B60205-0100	**13-201-616**	195.10
1.5°C	-20° to +110°C	1°	0°, 37°, 56°C	12" (305mm)	B60205-0200	**13-201-617**	194.11
1°C	-20° to +150°C	1°	0°, 60°, 120°C	12" (305mm)	B60205-0300	**13-201-618**	244.50
1°C	24° to 38°C	0.5°	0°, 25°, 30°, 37°C	12" (305mm)	B60205-0400	**13-201-620**	330.50
2°F	0° to 300°F	2°	32°, 100°, 200°, 300°F	12" (305mm)	B60205-0500	**13-201-621**	251.00
1°C	-1° to +51°C	0.1°	0°, 10°, 20°, 30°, 37°, 40d, 50°C	18.1" (460mm)	B60205-0600	**13-201-622**	369.00
1°C	-1° to +201°C	0.2°	0°, 20°, 37°, 56°, 80°, 100°, 121°, 150°C	24" (610mm)	B60205-1000	**13-201-624**	381.00
1°C	-1° to +101°C	0.1°	0°, 10°, 20°, 30°, 40°, 50°, 56°, 60°, 70°, 80°, 90°, 100°C	24" (610mm)	B60205-0800	**13-201-623**	528.50

H-B Instrument™ FRIO-Temp™ PFA Safety Coated Certified Precision Liquid-In Glass Thermometers

To verify sample temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST™ and DAkkS/PTB

Features fluoropolymer coating, a detailed Certificate of conformance and individual serial number. 0.2°C accuracy (Cat. No. 13-201-547 has an accuracy of 0.4°C).

- Certified precision
- Coating: Fluoropolymer coated for safety
- Length: 5.7 to 8.3"

CERTIFICATIONS:
ISO/IEC 17025:2005 and DAkkS/PTB

13-201-543

For Use with	Temperature Range	Length	Calibrated	Mfr. No.	Cat. No.	Each
Freezer	-25° to -5°C	8.3" (210mm)	No	B60200-0020	**13-201-543**	52.30
Refrigerator	-2° to +10°C	7.1" (180mm)	No	B60200-0120	**13-201-544**	53.80
Incubator	15° to 30°C	7.1" (180mm)	Yes	B60200-0220	**13-201-545**	52.30
Incubator	25° to 45°C	7.5" (190mm)	No	B60200-0320	**13-201-546**	52.30
Oven	95° to 115°C	7.9" (200mm)	Yes	B60200-0420	**13-201-547**	52.30

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H-B Instrument™ Frio-Temp™ Enviro-Safe™ Calibrated Thermometers

Feature a PFA-fluoropolymer safety coating and Enviro-Safe EnviroKleen™ environmentally friendly fill

Supplied with a detailed calibration report, these thermometers are traceable to NIST™ and DAkkS.

- Use to verify sample temperatures in freezers, refrigerators, incubators and ovens with traceability to NIST and DAkkS. Feature a narrow temperature range certified at one specific point with 0.5°C accuracy.
- Type: Calibrated: certified to 0.1 of the smallest division
- Coating: Fluoropolymer coated for safety
- Thermometer fill: Enviro-Safe EnviroKleen
- Divisions: 0.5
- Accuracy: 0.5°C
- Individually serialized

CERTIFICATIONS:
NIST, DAkkS

Enviro-Safe Calibrated Thermometer

For Use with	Temperature Range	Divisions	Length	Accuracy	Certification Points	Mfr. No.	Cat. No.	Each
Refrigerators	-5° to +15°C	0.5	4.9" (125mm)	0.5°C	6°C	B60200-0620	**13-201-461**	42.95
Freezers	-30° to +1°C	0.5	5.3" (135mm)	0.5°C	-15°C	B60200-0720	**13-201-462**	42.95
Blood Banks	-5° to +20°C	0.5	5.3" (135mm)	0.5°C	4°C	B60200-0820	**13-201-463**	42.95
Incubators	15° to 50°C	0.5	5.3" (135mm)	0.5°C	37°C	B60200-0920	**13-201-464**	42.95

Fisherbrand® Pocket Closed Metal Case Liquid-In-Glass Thermometers

When convenience and portability count!

- Individually packaged in Safety-Pak™ packaging to prevent breakage
- Each thermometer is 6.3" (160mm) long and total immersion
- Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA laboratory
- Includes a Statement of Accuracy traceable to NIST™

13-201-699

APPLICATIONS:
Ideal for field studies, waste water treatment and any "on-the-go" applications

Thermometer Fill	Glass Type	Range	Divisions	Accuracy	Traceable to NIST	Traceable to DKD	Cat. No.	Case of 25
Blue Organic	White Back	-35/50°C	1	1°C	Yes	No	**13-201-695**	11.61
Blue Organic	White Back	-10/110°C	1	1°C	Yes	No	**13-201-696**	11.92
Blue Organic	White Back	-5/50°C	0.5	0.5°C	Yes	No	**13-201-697**	11.61
Blue Organic	White Back	-10/110°C (0/220°F)	1°C; 2°F	1°C; 2°F	Yes	No	**13-201-698**	11.61
Blue Organic	White Back	-30/120°F	2	2°F	Yes	No	**13-202-505**	13.06
Blue Organic	White Back	0/220°F	2	2°F	Yes	No	**13-201-699**	11.61
Blue Organic	White Back	20/120°F	2	2°F	Yes	No	**13-201-700**	11.61

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H-B Instrument™ Enviro-Safe™ Pocket Thermometers

Pocket liquid-in-glass thermometers

Each total immersion thermometer is 160mm (6.3") length and features a multi-language Statement of Accuracy indicating accuracy traceable to NIST™ (Easy-Read™ and Enviro-Safe™ pocket thermometers are also traceable to DAkkS/PTB). Ideal for field studies, waste water treatment and any "on-the-go" applications.

- Thermometer fill: Enviro-Safe
- Glass type: White back
- Traceable to DAkkS/PTB: Yes

CERTIFICATIONS:
ISO/IEC 17025:2005

13-202-581

Feature	Range	Accuracy	Cat. No.	Each
Plastic window	-5° to +50°C	0.5°C	**13-202-574**	18.51
Window metal case	-5° to +50°C	1.0°C	**13-202-575**	13.34
Window metal case	-5 to +50°C	0.5°C	**13-202-576**	12.34
Window metal case	0° to 220°F	2°F	**13-202-577**	14.54
Window metal case	20° to 120°F	1°F	**13-202-578**	16.15
Closed metal case	-10° to +110°C	1°C	**13-202-579**	13.34
Closed metal case	-5° to +50°C	0.5°C	**13-202-580**	12.70
Closed metal case	0° to 220°F	2.0°F	**13-202-581**	14.24
Closed metal case	20° to 120°F	1.0°F	**13-202-582**	15.15

Fisherbrand® Durac™ Plus™ Certified Dry Block Thermometers

Designed for use in all standard heating blocks and water baths

Each item is calibrated to NIST™ standards at specific temperature points. Each thermometer has an individual serial number and a Calibration Report stating corrections to one-tenth of the smallest division.

- Organic fill on white back glass
- 0.5° Divisions
- 0.5°C Accuracy

13-201-910

- Range: 18 to 60°C
- Divisions: 0.5°C
- Certification Point: 37°C

13-201-911

- Range: 50 to 110°C
- Divisions: 0.5°C
- Certification Point: 75°C

CERTIFICATIONS:
A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST).

13-201-910

Temperature Range	Certification Temperature	Accuracy	Length	Immersion Depth	Cat. No.	Each
18 to 60°C	37°C	0.5°C	4.9" (125mm)	1.4" (35mm)	**13-201-910**	267.50
50 to 110°C	75°C	0.5°C	4.9" (125mm)	1.4" (35mm)	**13-201-911**	267.50

Fisherbrand® 10/30 Ground Joint Thermometers

- 10/30 ground joint with Celsius scale
- Calibrated for specific immersion depths
- Individually serialized and packaged

13-201-932

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Cat. No.	Each
Red Organic	White Back	-10/150°C	1	10.6" (270mm)	1.0" (25mm)	1°C	**13-201-927**	45.85
Red Organic	White Back	-10/250°C	1	12.0" (300mm)	1.0" (25mm)	1°C; 1.5°C above 150°C	**13-201-928**	43.60
Red Organic	White Back	-10/250°C	1	12.0" (300mm)	2.0" (50mm)	1°C; 1.5°C above 150°C	**13-201-929**	43.95
Red Organic	White Back	-10/110°C	1	12.0" (300mm)	3.0" (75mm)	1°C	**13-201-930**	48.30
Red Organic	White Back	-10/150°C	1	12.0" (300mm)	3.0" (75mm)	1°C	**13-201-931**	36.45
Red Organic	White Back	-10/250°C	1	14.1" (360mm)	3.0" (75mm)	1°C; 1.5°C above 150°C	**13-201-932**	48.25

H-B Instrument™ Durac™ Bi-Metallic Surface Temperature Thermometers

With 2.5% or 2.5° accuracy — ideal for measuring temperatures in pipes, griddles and hot plates

13-201-568

Available in plastic or stainless-steel construction with a variety of backing options.

- Bimetallic coil movement and 2" (50mm) or 2.5" (64mm) aluminum dial
- Divisions range from 1° to 10° depending on item
- Backings include single magnetic backing, double magnet backing, single thin spring and single wide spring
- Ideal for pipes, hotplates, etc.

WARRANTY:
Five-year limited.

Temperature Range	Dial Size	Divisions	Backing	Mfr. No.	Cat. No.	Each
Plastic						
0° to 250°F	2" (50mm)	2°	Double Magnet	B61320-0100	**13-201-973**	29.75
0° to 300°C	2" (50mm)	5°	Double Magnet	B61320-0200	**13-201-569**	37.94
0° to 400°C	2" (50mm)	5°	Double Magnet	B61320-0300	**13-201-971**	37.85
20° to 120°C	2" (50mm)	1°	Double Magnet	B61320-0000	**13-201-568**	37.05
50° to 750°F	2" (50mm)	10°	Double Magnet	B61320-0400	**13-201-570**	37.90
Stainless Steel 304						
0° to 120°C	2.5" (64mm)	1°	Single Magnet	B61320-0500	**13-201-571**	29.39
0° to 400°C	2.5" (64mm)	5°	Single Thin Spring	B61320-1500	**13-201-978**	28.90
50° to 250°F	2.5" (64mm)	2°	Single Thick Spring	B61320-1700	**13-201-980**	22.23
50° to 250°F	2.5" (64mm)	2°	Single Wide Spring	B61320-1800	**13-201-981**	25.47
50° to 750°F	2.5" (64mm)	10°	Single Magnet	B61320-0800	**13-201-976**	32.40
50° to 750°F	2.5" (64mm)	10°	Single Thin Spring	B61320-1600	**13-201-979**	28.90

Fisherbrand® Durac™ Dry Block/Incubator Thermometers

Designed for use in all standard heating blocks and water baths

13-201-946

- Organic liquid fill
- White back glass
- Individually serialized
- Packaged in recyclable packaging

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Arrows	Swell	PFA Coated	Traceable to NIST	Traceable to DKD	Cat. No.	Per Case
Blue Organic	White Back	18/60°C	0.5	4.9" (125mm)	1.4" (35mm)	0.5°C	---	Yes	Yes	No	No	**13-201-914**	28.15
Blue Organic	White Back	50/110°C	0.5	5.9" (150mm)	1.4" (35mm)	0.5°C	---	Yes	Yes	No	No	**13-201-915**	28.15
Red Organic	White Back	0/100°C	1	8.9" (225mm)	1.4" (35mm)	1°C	37, 56°C	No	No	No	No	**13-201-939**	28.90
Red Organic	White Back	0/100°C	1	8.9" (225mm)	1.4" (35mm)	1°C	37, 56°C	No	Yes	No	No	**13-201-558**	52.50
Red Organic	White Back	0/80°C	0.5	8.9" (225mm)	3.9" (100mm)	0.5°C	---	Yes	No	No	No	**13-201-940**	34.40
Red Organic	White Back	0/80°C	0.5	8.9" (225mm)	3.9" (100mm)	0.5°C	---	Yes	Yes	No	No	**13-201-941**	35.50
Red Organic	White Back	0/70°C	1	12.0" (300mm)	5.9" (150mm)	1°C	37, 56°C	Yes	No	No	No	**13-201-943**	22.50
Red Organic	White Back	0/70°C	1	12.0" (300mm)	5.9" (150mm)	1°C	37, 56°C	Yes	Yes	No	No	**13-201-944**	35.20
Red Organic	White Back	-15/105°C	1	5.9" (150mm)	Total	1°C	25, 30, 37, 56°C	Yes	Yes	No	No	**13-201-577**	11.70
Organic	White Back	0/100°C	1°C	8.9" (225mm)	1.4in. (35mm)	1°C	-	-	Yes	No	No	**13-201-916**	51.39

H-B Instrument™ Enviro-Safe™ Dry Block/Incubator Thermometers

- EnviroKleen™ certified environmentally friendly
- 100% non-toxic, nonhazardous, biodegradeable Enviro-Safe liquid
- Arrow indicators imprinted on thermometer glass at 25, 30, 37 and 56°C
- Individually serialized
- Tested in a triple accredited/registered ISO/IEC 17025:2005 and A2LA Accredited Calibration Laboratory; internationally recognized and accepted by the signatory economies of the ILAC/MRA
- Multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy indicating accuracy traceable to NIST™
- Recyclable Safety-Pak™ packaging

13-201-912

Thermometer Fill	Glass Type	Range	Divisions	Length	Immersion Depth	Accuracy	Arrows	Swell	PFA Coated	Traceable to NIST	Traceable to DAkkS	Cat. No.	Each
Enviro-Safe™	White Back	24/57°C	0.5	6.9 in. (175mm)	1.4 in. (35mm)	0.5°C	25, 30, 37, 56°C	Yes	No	Yes	Yes	**13-201-912**	25.15
Enviro-Safe™	White Back	24/57°C	0.5	6.9 in. (175mm)	1.4 in. (35mm)	0.5°C	25, 30, 37, 56°C	Yes	Yes	Yes	Yes	**13-201-913**	25.57

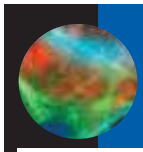
H-B Instrument™ Velvet Lined Thermometer Storage Cases

Single thermometer or nine thermometers can be stored according to choice

- Velvet lined
- Leatherette
- Thermometer length range: 12 to 24" (305 to 610mm)

13-201-519

Description	Thermometer Length	Mfr. No.	Cat. No.	Each
Holds one 12" thermometers	12 in. (305mm)	B61400-3100	**13-201-518**	62.60
Holds one 15.9" thermometers	15.9 in. (405mm)	B61400-3300	**13-202-135**	54.92
Holds nine 15.9" thermometers	15.9 in. (405mm)	B61400-3000	**13-202-134**	128.04
Holds one 18" thermometers	18 in. (460mm)	B61400-3200	**13-201-519**	35.85
Holds one 24" thermometers	24 in. (610mm)	B61400-3400	**13-202-136**	35.00



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Digital

Fisher Scientific™ Traceable™ Infrared Thermometer Gun

Takes instant, less-than-a-second, temperature readings of any surface

- Unique design permits one-handed "point and shoot" readings
- Laser-sighting beam permits aiming precisely at target surface
- Ideal for food preparation, pharmaceuticals, field use, electronics and safety inspection
- Field of view is 50:1 (example: reads a spot the size of 6 inches from 25 feet away)
- Includes backlighting, data hold (freezes display reading), laser, low-battery indicator, and °C/°F buttons
- 15-077-970 also features min/max memory, average readings, and high/low alarms
- Range is -50° to +1000°C/-58° to +1832°F
- Resolution is 0.1° to 200°, 1° over 200°; accuracy, ±1.5% + 2°C

ORDERING INFORMATION:

- Dimensions: 9 × 4 × 2.25" (22.9 × 10.2 × 5.7cm)
- Weight: 10 oz.

INCLUDES: 9V battery

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Emissivity fixed at 0.95	**15-077-969**	257.50
Emissivity adjustable from 0.10 to 1.00 in 0.01 steps	**15-077-970**	322.00

Fisher Scientific™ Traceable™ Infrared Thermometer with Trigger Grip

Instantly reads both Fahrenheit and Celsius for any surface, including solids, semisolids and liquids

- Simple operation — point at sample and take a reading in less than a second
- Noninvasive, no-touch measurements are ideal for food preparation, life sciences, pharmaceuticals, petroleum products, cleanrooms, electronics and field use
- Thermocouple jack may be used for reading all Type K thermocouples
- Minimum/maximum feature permits viewing highest and lowest readings at any time
- Displays the average of all readings made and the difference between two readings
- Audible, user settable, high and low alarms signal out-of-range conditions
- "Hold" function freezes display at the current reading
- Backlighting permits viewing in low-light conditions; low-battery indicator
- Memory permits recalling individually captured temperatures

15-077-968

Specifications:

- Temp. Range: -60° to +500°C/-76° to +932°F
- Resolution: 0.1°
- Accuracy, ±1°C + 2%
- Dimensions: 7 × 2.75 × 1.5" (18 × 7 × 3.8cm)
- Weight: 6 oz. (0.2kg)

INCLUDES: Batteries

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-60° to +500°C	**15-077-968**	146.70

Fisher Scientific™ Traceable™ Flip-Stick™ Thermometer

- Features °F/°C switch
- Stainless-steel probe is foldable
- Shockproof and drop-proof up to 5'
- Max/min temperature reading over any period
- Wide temperature range cover most routine measurements
- Position probe at any angle
- Protect probe in fold-up position
- 0.75" display is easy to read
- Rapid reading update — every second
- HOLD switch freezes display to capture a temperature

06-664-26

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from ISO 17025 calibration laboratory accredited by A2LA indicating traceability to standards provided by NIST (National Institute of Standards and Technology).

Specifications	
Temperature Range	-50° to +300°C (-58° to +572°F)
Resolution	0.1° below +200°; 1° above +200°
Accuracy, Standard Model	±1°C between -20° and +100°C
Accuracy, Plus Model	±0.3°C at test points
L, folded	6" (15.2cm)
L, extended	11" (27.9cm)
W	0.625" (1.6cm)
Weight	2.4 ounce (68g)

Accuracy	Cat. No.	Each
±1°C between -20° and +100°C	**14-648-45**	31.90
±0.3°C at test points	**06-664-26**	60.70

Fisher Scientific™ Digital Thermometers with Stainless-Steel Stem

Easy-to-read handheld digital thermometers

Stainless-steel stem is chemically resistant to acids, bases, solvents, and may be used to measure temperature of gases, food and other semisolids.

- Short-stem piercing models are ideal for carrying in a pocket
- Longer probes are excellent for measuring sample temperatures while stirring in deep vessels or water baths
- Thermometers with longer sampling rates allow thermometer to be removed from sample before reading — ideal when display is difficult to read in measuring position

15-078G

APPLICATIONS: For use in cuvets, soil, incubators, petroleum products and foods. Waterproof thermometers (see Models 14-648-43, and -44) are ideal for wet labs, wash-down areas and field use

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Resolution/Accuracy	LCD Display	Probe Dimensions	Features	Cat. No.	Each
Stainless-Steel Stem						
-50° to +300°C (-58° to +572°F)	0.1° from -20 to +100°; 1° outside this range/±0.2°C between -20° and +100°C	0.25"H (6.4mm)	0.125 dia. × 8"L (3mm × 20cm)	Traceable. Same as 14-648-44.	**06-664-27**	65.40
-50° to +300°C (-58° to +572°F)	0.1° from -20 to +200°; 1° outside this range/±0.4°C between -20° and +100°C	0.25"H (6.4mm)	0.18 dia. × 8"L (5mm × 20cm)	Traceable. Same as 14-648-43.	**06-664-35**	58.20
-50° to +280°C (-58° to +536°F)	0.1° from -20 to +200°; 1° outside this range/±1°C between -20° and +100°C	0.25"H (6.4mm)	0.18 dia. × 5"L (5mm × 20cm)	Traceable. Dual range; waterproof; stainless-steel piercing tip; includes battery.	**14-648-43**	27.90
-50° to +300°C (-58° to +572°F)	0.1° from -20 to +100°; 1° outside this range/±1°C between -20° and +100°C	0.25"H (6.4mm)	0.125 dia. × 8"L (3mm × 20cm)	Traceable. Dual range; head mounted perpendicular to stem; Min./Max. memory; updates reading every second; waterproof; impact resistant from 5' (1.5m) drop; includes silver-oxide battery.	**14-648-44**	29.75
-50° to +150°C (-58° to +302°F)	0.1° from -20° to +100°/±0.2°C (0.4°F) between -20° and +100°C (-4° and +212°F)	0.375"H (10mm)	0.125 dia. × 5.25"L (3mm × 13.3cm)	Traceable. Same as 15-078L.	**14-648-47**	54.70
-50° to +150°C (-58° to +302°F)	0.1°/±1°C	0.25"H (6.4mm)	0.125 dia. × 1"L (3mm × 2.5cm)	Traceable. Dual range; split-ring key chain with snap hook; updates reading every second; ON/OFF; ABS case; comes with one-year silver-oxide battery.	**15-077-58**	28.60
-50° to +150°C (-58° to +302°F)	0.1° from -20° to +200°/±1°C between -20° and +100°C	0.375"H (10mm)	0.125 dia. × 5.25"L (3mm × 13.3cm)	Traceable. Dual range; updates reading every second; includes battery.	**15-078L**	43.75
Stainless-Steel Stem With Protective Guard						
-67° to +300°F	0.1°F/±0.4°F	0.375"H (10mm)	0.125 dia. × 4.75"L (3mm × 12cm)	Traceable. Same as 15-078F.	**06-664-30**	62.60
-55° to +149°C	0.1°C/±0.2°C	0.375"H (10mm)	0.125 dia. × 4.75"L (3mm × 12cm)	Traceable. Same as 15-078F.	**06-664-31**	62.00
-50° to +280°C (-58° to +536°F)	0.1° from -20° to +200°/±0.4°C between -20° and +100°C	0.25"H (6.4mm)	0.125 dia. × 8"L (3mm × 20cm)	Traceable. Same as 15-077-54.	**06-664-32**	61.80
-50° to +300°C (-58° to +572°F)	0.1° from -20° to +200°; 1° outside this range/±0.4°C	0.25"H (6.4mm)	0.142 dia. × 3.5"L (3.6mm × 89mm)	Traceable. Same as 15-078G.	**06-664-33**	63.20
-50° to +150°C (-58° to +302°F)	0.1° from -20° to +200°; 1° outside this range/±0.2°C	0.25"H (6.4mm)	0.125 dia. × 8"L (3mm × 20cm)	Traceable. Same as 15-078J.	**14-648-12**	61.90
-50° to +280°C (-58° to +536°F)	0.1° from -20° to +200°/±1°C between -20° and +100°C	0.25"H (6.4mm)	0.125 dia. × 8"L (3mm × 20cm)	Traceable. Dual range; rotating head can be read in any position; folds flat; updates reading every 10 seconds; ON/OFF; probe guard; comes with 18-month silver-oxide battery.	**15-077-54**	35.45
-50° to +250°C (-58° to +482°F)	0.1° from -20° to +200°; 1° outside this range/±1°C	0.25"H (6.4mm)	0.125 dia. × 11.375"L (3mm × 29cm)	Traceable. Same as 15-078J.	**15-077-59**	38.65
-50° to +250°C (-58° to +482°F)	0.1° from -20° to +200°; 1° outside this range/±0.5°C	0.25"H (6.4mm)	0.125 dia. × 11.375"L (3mm × 29cm)	Traceable. Same as 15-078J.	**15-077-61**	63.20
-67° to +300°F	0.1°F/±1.8°F	0.375"H (10mm)	0.125 dia. × 4.75"L (3mm × 12cm)	Traceable. Same as 15-078F.	**15-078D**	43.10
-55° to +149°C	0.1°C/±1°C	0.375"H (10mm)	0.125 dia. × 4.75"L (3mm × 12cm)	Traceable. Updates reading every 10 seconds; Probe guard with pocket clip; comes with 18-month silver-oxide battery.	**15-078F**	35.70
-50° to +300°C (-58° to +572°F)	0.1° from -20° to +200°; 1° outside this range/±1.5°C	0.25"H (6.4mm)	0.142 dia. × 3.5"L (3.6mm × 89mm)	Traceable. Dual range; always reading; HOLD button freezes reading; updates every second; probe guard with pocket clip attaches to handle to extend length to 10 3/4" (27cm); comes with 1 1/2-year battery.	**15-078G**	46.20
-50° to +150°C (-58° to +302°F)	0.1° from -20° to +200°; 1° outside this range/±1°C	0.25"H (6.4mm)	0.125 dia. × 8"L (3mm × 20cm)	Traceable. Dual range; always reading; updates reading every second; comes with one-year battery and protective case.	**15-078J**	36.90

Fisher Scientific™ Traceable™ Infrared Thermometer with Pocket Clip

Pocket IR thermometer with simple point-and-shoot operation

Easy to use — just turn it on, point at sample, and take a reading in less than a second.

15-077-966

- Units read both Fahrenheit and Celsius of any surface — solids, semisolids, and liquids
- Noninvasive, no-touch measurements are ideal for food preparation, life sciences, pharmaceuticals, petroleum products, cleanrooms, electronics and field use
- "HOLD" command freezes the display at the current reading Field of view is 1:1
- Display indicates low battery
- Fixed emissivity of 0.95 covers 90% of all applications

Specifications

- Resolution: 0.1°
- Accuracy: ±1°C + 2%
- Dimensions: 3.25 × 0.75" (8.3 × 1.9cm)
- Weight: 0.75 oz.

INCLUDES: Handy pocket clip, key-chain strap, batteries

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-33° to +220°C/-27° to +428°F	**15-077-966**	48.00

Fisher Scientific™ Traceable™ Digital Thermometers with Short Sensors

Easy-to-read digital thermometers with epoxy-coated sensor

- Epoxy sensor with cable
- Select the correct temperature to use in water baths, refrigerators, incubators and tanks
- Choose from models with a variety of features including MAX/MIN function to record the maximum and minimum temperature in a certain time period; visual and audible alarms and multiple displays of recorded temperatures

Traceable Digital Thermometer

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Length	Height [LCD]	Resolution	Cat. No.	Each
Celsius Scale				
6.4cm (2.5")	Top: 13mm (0.5")H; Bottom: 8.5mm (0.33")H	1°C	**15-077-17B**	63.00
10.2cm (4")	29mm (1.12")H	0.1°	**15-077-27**	51.90
Dual Scale				
6.9cm (2.75")	13mm (0.5")H	1°	**15-077-20**	39.50
10.8cm (4.25")	29mm (1.12")H	1°	**15-077-22**	57.30
5.7cm (2.25")	13mm (0.5")H	0.1°C	**15-077-8C**	56.90
Fahrenheit Scale				
6.4cm (2.5")	Top: 13mm (0.5")H; Bottom: 8.5mm (0.33")H	1°C	**15-077-17A**	65.80
10.2cm (4")	29mm (1.12")H	0.1°C	**15-077-28**	52.50
7.6cm (3")	13mm (0.5")H	0.1°C	**15-077-31**	52.50

Fisher Scientific™ Digital Thermometers with Stainless-Steel Probe on Cable

Stainless-steel probe is chemically resistant to most acids, bases and solvents

- Easy-to-read digital thermometers are compact to hold in your hand or mount on wall in restricted areas
- Stainless-steel probe may be used to measure temperature of gases, liquids, food, and other semisolids
- Models 15-077-8B, -29 and 14-648-46 have alarm that can be set to alert user to temperatures that exceed setpoints
- 15-077-29 thermometer has additional timer alarms
- For a miniature-size thermometer, see model 15-077-32

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

15-077-8B

Accuracy	LCD Height	Accuracy	Length	Temperature Range	Cat. No.	Each
Celsius						
±1°C	6mm (0.25"H)	±1°C	12.06cm (4.75")	-50° to +300°C (-58° to +572°F)	**15-077-9E**	47.90
Fahrenheit						
±1°C	6mm (0.25"H)	±1°C	12.06cm (4.75")	-50° to +300°C (-58° to +572°F)	**15-077-9D**	48.00
Dual Scale						
±1°C from -20° to +100°C	13mm (0.5"H)	±1°C	10cm (4")	-50° to +300°C (-58° to +572°F)	**14-648-46**	48.70
±2°C	Top: 17mm; Bottom: 13mm (Top: 0.62"H; Bottom: 0.5"H)	±2°C	10cm (4")	0° to 200°C (32° to 392°F)	**15-077-29**	57.70
±1°C from 0° to +100°C	7.6mm (0.31")	±1°C	10cm (4")	-50° to +150°C (-58° to +302°F)	**15-077-32**	49.75
±1°C	13mm (0.5"H)	±1°C	10cm (4")	-50° to +260°C (-58° to +500.8°F)	**15-077-8B**	78.10

Fisher Scientific™ Traceable™ Radio-Signal Remote Thermometer

Monitors temperature from a distance of 65 to 100' without wires or cables

Mount sensor module outdoors or inside a hood, incubator, or refrigerator. Data transmits on a radio frequency of 433MHz to a main unit. Receiver unit and module are housed in chemical-resistant ABS plastic.

15-077-50

Receiver unit

- Displays data from up to three different remote sensor modules
- Trend indicator shows temperature changes, min./max. display for short- or longer-term monitoring — alarm sounds when temperature rises above or below
- Switch-selectable temp. ranges: -50° to +70°C and -58° to +158°F
- Resolution, 0.1°; accuracy, ±1.5°C (±2.7°F)
- 0.62L × 4.25W × 4.5"H (1.6 × 10.8 × 11.4cm); 6 oz. (170g)
- Large 1.12"H (3cm) digits can be read from up to 25'

Remote sensor module

- With internal sensor and submersible, plastic external probe, 0.18 dia. × 0.87"L (0.5 × 2.2cm), with 10' (3m) cable
- Measures ambient temp. with internal sensor or displays external probe plugged into side of module to monitor gas, liquid or semisolid temps
- Select transmission channel with three-position switch on unit
- Data is transmitted to remote receiver unit every 30 seconds and displayed on 0.37"H sensor module LCD
- 0.75L × 2.33W × 3.5"H (1.9 × 5.9 × 8.9cm); 3 oz. (85g)

INCLUDES: Receiver unit; one sensor module with internal probe and plastic external probe with 10' (3m) cable, and two each AA and AAA batteries. Flip-open stand, wall bracket and Velcro™ tape.

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-50° to +70°C/-58° to +158°F	**15-077-50**	98.40

Fisher Scientific™ Traceable™ Thermometer/Clock/ Humidity Monitor

Measures ambient temperature, relative humidity and tells time

Easy-to-read LCD reports temperature with accuracy to ±1°C and resolution to 0.1°C/°F.

- Dual ranges: 0° to 50°C and 32° to 122°F
- Three-line LCD display with 0.5"H (13mm) digits
- Flip-down easel for desktop use
- Switch selectable Celsius or Fahrenheit readings
- Relative humidity range is 20 to 90%, resolution is 1% RH, and accuracy is ±8%
- Memory recalls highest and lowest temperature and humidity readings
- Clock shows time of day to the minute, with accuracy to 0.0190 seconds

06-662-4

APPLICATIONS:
Ideal for use in incubators, storerooms, drying chambers, hoods, cleanrooms, environmental cabinets and general lab applications. Designed for easy operation, accuracy and reliability in industrial, educational, hospital and government labs.

ORDERING INFORMATION:
Overall dimensions: 4.25L × 2.25W × 0.5"H (10.8 × 5.7 × 1.3cm)

INCLUDES:
1.5V AAA battery

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Fisher Scientific Traceable Thermometer/Clock/ Humidity Monitor	**06-662-4**	58.30

Fisher Scientific™ Traceable™ Refrigerator/Freezer Alarm Thermometers

Temperature-buffered, sensor-sealed in bottled glycol solution to provide accurate reading when freezer/refrigerator doors are open

- Monitors temperature in freezers, refrigerators, incubators, water baths and heating blocks
- Triple display simultaneously shows current, high and low temperatures
- Alarm (Cat. No. 06-664-11 only) set in 1° increments alerts user with visual and audible signals if temperature goes outside setpoints
- 10' long (3m) microcable
- Dimensions: 4.25L × 2.75W × 0.75"H (11 × 7 × 2cm)

INCLUDES:
Velcro™ and magnetic mounting strip; one AA battery; ABS plastic case

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

06-664-11

Range	Resolution	Accuracy	Cat. No.	Each
Celsius				
-40° to +50°C/-40° to +122°F	0.1°	±0.5°C	**06-664-23**	77.30
Dual Range				
-50° to +70°C/-58° to +158°F	1°	±1°C	**06-664-11**	61.40

Fisher Scientific™ Traceable Jumbo Refrigerator/Freezer Thermometers

Digital thermometers are perfect for monitoring freezers, water baths, heating blocks, incubators and refrigerators

14-648-233

- Accurately monitor temperatures with this enclosed "temperature-buffered" sensor
- Bottle insulates sealed sensor from rapid temperature changes when refrigerator door is opened
- Thermometer fulfills all CDC thermometer and vaccine thermometer requirements
- Easy-view, jumbo 1.5" (38.1cm) high digits may be read from 30' (9m)
- Sensor and 10' cable perform accurately even when both are under water
- High-impact, chemical-resistant ABS plastic case
- Triple display simultaneously shows maximum, minimum and current probe temperatures plus room temperature
- Min./max. monitors high/low readings overnight, on weekends or for any time period — a significant advantage over "current reading-only" glass thermometers
- Range is -58° to +158°F and -50° to +70°C with a resolution of 0.01° and accuracy of ±1°C
- Alarm feature provides alert when temperature rises above or falls below a setpoint
- Alarm is programmable in 1° increments
- Ten-foot micro-cable permits refrigerator doors to close on it
- Solid-state probes eliminate mercury contamination in refrigerators
- Sealed probe is housed in a miniature bottle filled with nontoxic glycol; solution is GRAS (Generally Recognized as Safe)
- Eliminates concerns about incidental contact with food or drinking water

ORDERING INFORMATION:
Case: 3.87 × 4.37 × 0.87" (9.83 × 11.1 × 2.2cm)
Sealed bottle probe measures 1 × 2.5" (2.5 × 6.4cm)
Naked sensor is 0.18 dia. × 0.75" long (4.6 × 19mm)
Replacement battery (02-440-3A) is available on our website

INCLUDES:
Unit is supplied with a Traceable Certificate, flip-open stand for lab bench, slot for wall mounting, one AAA alkaline battery and Velcro™ and magnetic strips to attach to any surface

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Model	Cat. No.	Each
With Sealed Bottle Probe	**14-648-232**	71.40
With Naked Sensor	**14-648-233**	79.40

Fisher Scientific™ Traceable™ Dual Thermometer with Min/Max and Time/Date

Displays the temperatures of two separate probes in C and F

Allows putting one probe in the freezer and another in the refrigerator (or measure two areas of a refrigerator).

15-078 Series

- Displays date/time when minimum/maximum temperatures occur
- Audible and visual alarm feature provides alert when temperature exceeds two set points
- Alarm programmable in 1° increments
- 3' micro-cable permits refrigerator doors to close on it
- Range: -50° to +70°C (-58° to +158°F)
- Resolution: 0.1°
- Accuracy; ±1°C
- Size: 3.5 × 1.75 × 1"
- Weight: 3.67 oz.

ORDERING INFORMATION:
Available with two special bottle probes or two waterproof probes. Bottle probe sealed 1 × 2.5" miniature bottle with nontoxin glycol. Waterproof probe measures 0.25 dia. × 1.25".

INCLUDES:
High-impact, chemical-resistant ABS plastic case, Velcro™ and magnetic strips for mounting, and AAA battery (allows continuous, 1-year always-on monitoring)

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Probe Type	Cat. No.	Each
Bottle probes	**15-078-184**	59.40
Waterproof probes	**15-078-185**	35.25

WHY CHOOSE BLUE?

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Fisher Scientific™ Traceable™ Noncontact Infrared Thermometers

Portable thermometers measure infrared surface temperatures with view fields of 6:1 to 8:1

If a unit has a view field of 7:1 and the thermometer is held 14" (35.6cm) from object, it reads infrared radiation emitting from a 2" dia. (5.1cm) spot.

- Switch to view either Celsius or Fahrenheit scales
- Laser sighting beam permits aiming precisely at the target surface
- 15-077-57 and 06-664-39 assure accurate measurements using adjustable control to account for differences in surface infrared emissivity of objects
- One-second sampling, backlighting button, data hold, low-battery indicator and dual ranges

APPLICATIONS:
Ideal for petroleum, electronics, plant and field use

INCLUDES:
9V battery; 06-664-38 comes with wrist strap

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

15-077-57

Range	Resolution	Accuracy	Field Of View	Cat. No.	Each
-60° to +500°C (-76° to +932°F)	1°	±2°C or 2%	11:1	**06-664-38**	124.80
-20° to +420°C (0° to +788°F)	1°	±2°C or 2%	8:1	**06-664-39**	158.60
-10° to +300°C (+14° to +572°F)	0.1°	±3°C or ±3%	7:1	**15-077-57**	411.50

Fisher Scientific™ Traceable™ Digital Thermometers

Ideal for routine measurements with semisolid liquid, or air/gas

- Switch-selectable temperature ranges: -50° to +150°C and -58° to +302°F
- Accuracy is ±0.05°C and ±0.09°F
- Resolution: 0.001°
- Easy-to-read 0.5"H (13mm) LCD, a MIN/MAX memory
- HOLD button, and datalogger with 50 readings and an RS-232 port
- Optional fast-response, stainless-steel, triple-purpose probe; readings are updated three times per second

Traceable Dial Thermometers: 15-077-8

ORDERING INFORMATION:
Order additional YSI probes separately; contact your Customer Service Representative. Accessory adapter also available.

INCLUDES: Replaceable 9V alkaline battery, high-impact, chemical-resistant ABS plastic case

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Accepts general-purpose probe (supplied with probe)	**15-077-8**	641.00

ACCESSORIES

Additional Probes for 15-077-8

- For use with Fisher Scientific™ Traceable™ Thermometer (Cat. No. 15-077-8)

Probe	Cat. No.	Each
General triple purpose probe	**15-077-7**	108.60
Micro probe	**15-077-9A**	159.10
Surface probe	**15-077-9B**	168.70
Air probe	**15-077-9C**	126.30

Fisher Scientific™ Traceable™ Total-Range Thermometer

Technologically advanced, pocket-size thermometer with water-resistant case

Constructed of shock-resistant ABS plastic, thermometer is designed for rough handling. Water-resistant case with O-ring gasket stops dirt, dust, fumes and water.

15-077-14

Features

- Fast-response microprocessor updates display twice a second
- Reads from -328° to +2498°F and -200° to +1370°C, with resolution of 0.1° and 1°
- Accuracy: ±1°C between -50°C to +740°C, otherwise ±2°C
- Jumbo-size, 0.62" (15.7mm) digits, back-lighting button
- HOLD button freezes display to capture current reading

Functions

- Switches from °F to °C at the touch of a button
- Recalls minimum and maximum temperature readings captured during any time
- Alarm sounds when temperature rises above or falls below high/low setpoints
- Countup timer alarm may be set from 23 hours, 59 minutes to 1 minute

ORDERING INFORMATION: Dimensions: 7L × 3.25W × 1.5"H (17.8 × 8.3 × 3.8cm). Weight: 8 oz. (227g). Uses all Type-K thermocouple probes.

INCLUDES: PVC protective casing with flip-out stand; three AAA batteries; power unit for one year of routine use; Type-K beaded probe with 4' long (1.2m) cable

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-200° to +1370°C (-328° to +2498°F)	**15-077-14**	145.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisher Scientific™ Traceable™ Expanded-Range Thermometers

Shockproof, pocket-size thermometers are ideal for lab, plant and field use

Expanded range, fast response and one-switch operation make them the perfect routine thermometers.

- Range of Celsius model is -40° to +1200°C, range of Fahrenheit model is -40° to +2000°F
- Resolution: 1°
- Typical meter-only accuracy is ±(1°C + 1%) from 0 to 750°C
- Two models are available in either °C or °F
- Two probes allow simultaneous monitoring of two tests
- Three-position switch indicates probe 1, probe 2 or OFF

Traceable Expanded Range Thermometers: 15-077-10 (F), 15-077-11 (C)

ORDERING INFORMATION:
Dimensions: 5L × 3W × 1"H (12.7 × 7.6 × 2.5cm). Probe cable length: 15-077-10, -11: 4' (1.2m).

INCLUDES: 9V battery; two fast-response Type-K beaded sensors for measurements up to 250°C (482°F) continuous and 300°C (572°F) short term (for replacement, order 15-077-45). Come with 4m (13') cable.

REQUIRES: For measurements up to 700°C (1292°F), use the Type-K Triple-Purpose Accessory Probe (15-078-2B)

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™

Range	Cable Length	Cat. No.	Each
-40° to +1200°C	4' (1.2m)	**15-077-11**	140.30
-40° to +2000°F	4' (1.2m)	**15-077-10**	140.30

Fisher Scientific™ Traceable™ Wide-Range Thermometer

Certified traceable for ISO 9000 and other requirements

- Resolution: 0.1°C or °F from -200° to +640°, otherwise 1°; meter accuracy ±1°C
- Large, 0.5" (1.3cm) high LCD is easy to read
- Minimum and maximum readings may be recalled instantly
- Unit features backlit display and timer
- Uses J, K, T probes; computer output
- Supplied with stainless-steel Type-K probe with handle
- Size: 2.75 × 7 × 1.25" (6.98 × 17.78 × 3.17cm)
- Weight: 7 oz. (198.44g)

15-078-2

ORDERING INFORMATION:
Chemical-resistant, high-impact ABS plastic case measures 3.5L × 1.25W × 5.5"H (8.9 × 3.2 × 14cm). Supplied probe is 0.12 dia. × 9"L (3.2mm × 23cm), with 40"L (102cm) cable; for replacement probe, order 15-078-2B. Also accepts low-cost Type-K Beaded Probe (15-077-45). Accessory probe for surface measurements also available. See 15-078-2A.

INCLUDES:
9V battery; 115VAC 60Hz adapter for continuous use; stainless-steel, triple-purpose Type-K thermocouple probe with handle for semisolid, liquid or air/gas systems

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-212° to +1200°C/-350° to +2200°F	**15-078-2**	744.31

Fisher Scientific™ Type-K Digital Thermometer Probes

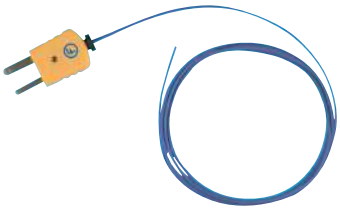
For use with all Fisher Scientific™ Type-K Digital Thermometers including 15-077-10, -11, -14, -26 and 15-078-2, -3A, -3B and -39.

Type-K Beaded Probe

- Fast-response Type-K thermocouple beaded 0.06" diameter (1.6mm) probe for use with all Type-K thermometers in liquids, semisolids, and air and other gases
- PTFE-resin coated 4' (1.2m) cable
- Probe's temperature range is -40° to +250°C continuous and up to 300°C short term

Type-K Triple-Purpose Probe

- For temperature measurements from -50° to +700°C (-45 to +1300°F)
- Ideal for lab, plant and field use — wherever liquids, air/gas and semisolids are routinely monitored
- Heavy-duty, stainless-steel probe with handle has a diameter of 0.12" (3mm) and length of 9.75" (248mm)
- With 40"L (102cm) cable



15-077-45

Surface Probe

- Stainless-steel Type-K thermocouple (NiCr/NiAl)
- Spring loaded
- Fast response with time constant of one second
- Universal keyed connector and non-heat-conductive handle
- Probe length (including handle) × diameter: 9 × 0.12" (140mm × 3mm)
- Cable length: 36" (91cm); Temperature range is -73° to +760°C (-163.4° to +1400°F)

Description	Temperature Range	Cat. No.	Each
Type-K Beaded Probe	-40° to +250°C	**15-077-45**	32.05
Type-K Digital Thermometer Probes	-73° to +760°C	**15-078-2B**	72.70
Surface Probe	-50° to +700°C	**15-078-2A**	265.50

Fisher Scientific™ Traceable™ RTD Platinum Thermometer

High-precision, durable thermometer with platinum RTD probe, and linear "fuzzy logic" chip for wide temperature-range operation

Platinum (100ohm) four-wire RTD probe can be used in liquids, air/gas and semisolids.

- Resolution: 0.01° below 200° and 0.1° above 200°
- Accuracy: ±0.1% plus 0.2°C below 200°, ±0.15% plus 0.5°C above 200°
- Probe range: -58° to +752°F (-50° to +400°C)
- Features HOLD button to freeze display and capture reading
- Fail-safe display indicates low-battery and probe condition
- Easy-to-read, high-contrast LCD with 0.51"H (1.3cm) digits
- Readings are updated 2.5 times every second

15-077-55

APPLICATIONS:
Ideal for experimental applications and in severe environments. Reproducible one-button operation minimizes operator error in quality control environments. Use to measure temperatures in soil, foods, ovens, cuvets, gas systems, reagents, water baths, wastewater, incubators, chemical solutions, petroleum products and extreme cold

ORDERING INFORMATION:
Unit dimensions: 1.25L × 3W × 7"H (3.2 × 7.6 × 17.8cm).
Weight: 9.5 oz. (269g). Probe measures 6". Overall length: 12"

INCLUDES: 9V battery and probe with 40" (102cm) cable

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Traceable RTD Platinum Thermometer	**15-077-55**	370.50

Fisher Scientific™ Traceable™ Thermometer with Time/Date, Max/Min Memory

Shows exact time and date when minimum and maximum temperature occurred

- Displays current, minimum and maximum temperatures
- Display shows min/max of ambient or probe temperature, time of day and month/day
- Submersible probe; wire mounting bracket permits easy probe placement
- Stainless-steel sensor and 6' (1.8m) cable perform accurately even when both are under water
- Sensor diameter: 0.18"; length: 1.5"
- Resolution is 0.5°; accuracy, ±1.5°C
- Dimensions: 3.5L × 3.5W × 1"H (8.9 × 8.9 × 2.5cm)
- 15-077-976 comes with special bottle probe specifically for refrigerator/freezer applications

Left to right: 14-648-26, 15-077-976

ORDERING INFORMATION: Replacement battery is Cat. No. 02-440-3A

INCLUDES:
Flip-open stand for benchtop use, slot for wall mounting, Velcro™ to attach to any surface, and "AAA" battery for continuous one-year monitoring. High-impact ABS plastic case measures 3.56 × 3.56 × 0.93"; weight is 3.5 oz. (99.22g)

CERTIFICATIONS:
Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA; indicates traceability to standards provided by NIST.

Description	Cat. No.	Each
Thermometer only	**14-648-26**	44.50
Thermometer with bottle probe for refrigerator/freezer applications	**15-077-976**	49.10
Thermometer with bottle prob for vaccine applications	**15-077-723**	55.30

Fisher Scientific™ Traceable™ Full-Scale Thermometers

Stainless-steel probe with piercing tip allows constant exposure to extreme temperatures at the end of the range

- Switchable °F/°C temperature ranges
- Readings are updated every second and displayed on a 0.37" (9.4mm) LCD readout
- Magnetic back allows placement on metal surfaces (incubators, freezers, water baths)
- Flip-open easel allows use on lab bench; spring fastener clips onto any edge
- Resolution, 0.1° from -20 to +200 and 1° elsewhere
- Measure just 2.12 dia. × 0.56" depth (5.3 × 1.3cm)
- Probe dia. × L: 0.14 × 5.5" (0.4 × 14cm)
- Cable length: 10' (3m)

INCLUDES: 1.5V silver-oxide battery for 1.5 years of continuous use.

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

NOTES:
Plus model also includes high/low alarm, minimum/maximum memories, and hold.

15-077-23, 06-664-34

Description	Range	Accuracy	Cat. No.	Each
Full-Scale	-50° to +250°C/-58° to +500°F	±1°C between -20° and +100°C	**15-077-23**	59.90
Full-Scale Ultra	-50° to +250°C/-58° to +500°F	±0.5°C between -20° and +100°C	**15-077-940**	64.60
Full-Scale Plus	-50° to +300°C/-58° to +572°F	±1°C between -20° and +100°C	**06-664-36**	59.80
Full-Scale Plus Ultra	-50° to +300°C/-58° to +572°F	±0.5°C between -20° and +100°C	**06-664-34**	74.10

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ Traceable™ Memory-Card Refrigerator/Freezer Thermometers/Humidity Meters

Min/max memories, high/low alarms and data capture; displays °F/°C

Stand-alone unit with datalogging capabilities; uses a removable standard SD memory card that is identical to types used in digital cameras.

- Capture a continuous stream of data to see the behavior of refrigerators, room areas or tests

Thermometer

- Covers -30° to +70°C (-22° to +158°F)
- Sealed bottle sensor is insulated from rapid temperature changes when refrigerator door is opened
- Solution in sealed bottle of GRAS (generally recognized as safe) material
- Thin cable is easy for refrigerator door to close and seal
- Alarm sets in 0.1° increments; beeps and flashes a bright red LED when temperature rises above or falls below user-set trip points
- Four-line display shows temperature of bottle probe, ambient temperature, humidity and time-of-day
- Batteries and adapter supplied

Datalogging

- Records readings from once a minute up to once every 720 minutes on a removable standard SD memory card
- Thermometer captures 5.9 million readings (over 10 years of minute-by-minute readings)
- Memory card reader (supplied) plugs into any USB Windows™ or Mac™ computer port — no software to install — for an instant report
- Memory card text file shows date, time-of-day and sensor readings in a single line
- Text report includes date/time-of-day and sensor readings, which may be sent to any spreadsheet or database

Specifications

- Probes: internal ambient, internal humidity; external bottle probe or stainless-steel probe
- Probe Temperature Range: -30° to +70°C (-22° to +158°F)
- Resolution: 0.1°C
- Probe Temperature Accuracy: ±0.6°C (0° to 50°C [32° to 122°F]), ±1.2°C (-30° to 0°C [-22° to +32°F], 50° to 70°C [122° to 158°F)
- Humidity Range: 0 to 99.9%RH
- Humidity Resolution: 0.1
- Humidity Accuracy: ±5% RH at 25°C (77°F) for range of 20 to 85% RH, ±7% RH elsewhere
- Display: four-line readout, LCD digit height: 0.7" (1.7 cm)
- Bottle Probe Size: 1 × 2.5" (2.54 × 6.35cm)
- Stainless-Steel Probe Size: 0.16 × 1" (0.41 × 2.54cm)
- Cable L: 79" (200cm)
- Size L × W × H: 3.5 × 4.25 × 1.25" (8.89 × 32.7 × 3.18cm)
- Weight: 7 oz. (198g)
- Case: high-impact, chemical-resistant, ABS
- Both models include internal probes to measure ambient temperature and humidity
- 15-081-110: Bottle probe model is ideal for monitoring refrigerators, freezers and incubators
- 15-081-111: Stainless-steel probe model is ideal for QC and research

ORDERING INFORMATION:
Batteries last one year with no data capture and one month with sampling rate of one per minute. If adapter receives no current, battery provides automatic backup.

INCLUDES:
256MB SD memory card, USB memory card reader, magnetic mounting strips, Velcro™, wall mount, bench stand, batteries, adapter, Traceable Certificate and plastic case

CERTIFICATIONS:
An individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Description	Cat. No.	Each
Without Stainless-Steel Probe	**15-081-110**	242.00
With Stainless-Steel Probe	**15-081-111**	242.00

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Fisher Scientific™ Traceable™ Digital-Bottle™ Refrigerator Thermometers

Innovative digital-bottle refrigerator/freezer thermometers with minimum/maximum readings

06-664-255

- Temperature range is -22° to +122°F (-30° to +50°C)
- Resolution is 0.1°
- Accuracy is ±1.0°C/Ultra model accuracy is ±0.4°C at tested points
- Supplied with NIST™ certificate
- Displays minimum and maximum readings over any time period
- Stainless-steel probe protects high-accuracy thermistor sensor
- Entire unit is waterproof
- Liquid-filled GRAS bottle mimics liquid sample temperatures
- GRAS — liquid generally recognized as safe by U. S. Food and Drug Administration
- Available with liquid fill or glass bead fill
- Chemical-resistant ABS plastic holder stands on a shelf or side of holder affixes to a refrigerator wall or any wall with supplied Velcro™ — is 2.25 × 2.25 × 1.25"

COMPLIANCE: Traceable Thermometer is provided with an individually serial-numbered Traceable Certificate from an ISO™ 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST™.

Description	Accuracy	Cat. No.	Each
Refrigerator/Freezer Thermometer	±1.0°C	**06-664-255**	44.35
Ultra Refrigerator/Freezer	±0.4°C at tested points	**06-664-256**	55.50
Refrigerator/Freezer Thermometer; w/ bottle fill of glass beads instead of solution	±1.0°C	**06-664-257**	44.35
Refrigerator/Freezer Thermometer; w/ bottle fill of glass beads instead of solution	±0.4°C at tested points	**06-664-258**	55.50

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

Fisher Scientific™ Traceable™ Hi-Accuracy Refrigerator Thermometer

Dual thermometers read to 0.01° while monitoring temperatures in refrigerator and freezer simultaneously or two refrigerator locations

- Triple display shows minimum/maximum, current temperatures
- Min/max monitors readings for any period; displays exact time/date temperature occurred
- Alarm provides two visual LEDs and two audio alerts, displays exact time/date of dual thermometer alarms
- Programmable in 0.01° increments
- Alarm signals continuously even if temperature returns to nonalarm range
- 10' micro-cable permits refrigerator doors to close on it
- Temperature range: -50 to +70°C (-58 to +158°F)
- Resolution: 0.01°, accuracy: ±0.3°C
- Displays exact time/date when MIN/MAX reading occurred and time/date when alarm triggered
- Two-channel alarm is programmable in 0.1° increments and sounds continuously when temperature rises above/falls below set points
- High-impact, chemical resistant ABS plastic case is 2.75 × 4.25 × 0.75"
- Weight: 5 oz. (141.74g)

ORDERING INFORMATION:
Available with bottle probe or regular probe. Bottle probed sealed in a 1 dia. × 2.5" bottle with nontoxic glycol. Regular probe is chemical resistant and waterproof; measures 0.18 dia. × 0.75".

INCLUDES:
High-impact, chemical-resistant ABS plastic case, stand, Velcro™, magnetic strips, wall mount, and two AA batteries (allow continuous, 1-year always-on monitoring)

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
One bottle probe	**15-078-215**	94.00
Two bottle probes	**15-078-176**	105.80
Two regular probes	**15-078-177**	82.10

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ Traceable™ Refrigerator/Freezer Plus™ Plus Thermometer

Accurately monitor temperatures in freezers, water baths, heating blocks, incubators and refrigerators with enclosed temperature-buffered sensor

- Minimum and maximum temperature memory
- Triple display simultaneously shows minimum, maximum and current temperatures
- High and low temperature alarm programmable in 1 degree increments
- May be used for liquids, air/gas, semi-solids, water baths and refrigerators

06-664-269

CERTIFICATIONS: Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST™.

Specifications	
Accuracy	±0.5°
Resolution	0.1°
Range	-50° to 70°C (-58° to 158.°F)
Size	3.25 × 2.5 × 0.6"
Weight	4 ounces (200mL)

Description	Cat. No.	Each
Memory Monitoring Plus Thermometer	**06-664-269**	58.40

Fisher Scientific™ Econo Traceable™ Refrigerator Thermometer

Inexpensive refrigerator thermometer with easy-view display

- Switchable °F/°C temperature range
- Always-hold™ suction cup allows secure placement anywhere inside refrigerator; also supplied with Velcro™ fasteners
- Display updates every 30 seconds; allows capturing reading without any effect from open refrigerator door
- Wide range of thermometer makes it ideal for monitoring temperatures in storerooms, labs, offices, hoods and cabinets
- Easy-view, LCD digit height is 0.5"
- Accuracy is ±1°C in the range of 0 to 25°C and ±1.5°C outside range; resolution of 0.1°

15-077-944

ORDERING INFORMATION:
Dimensions: 1 × 2.5 × 0.37" (2.5 × 6.4 × 1.1cm)
Weight: 0.5 oz. (14.17g)

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Range	Cat. No.	Each
Econo Traceable Thermometer	-9.9° to +55.0°C (14.2° to 131.0°F)	**15-077-944**	18.92
Econo Traceable Ultra Thermometer	-9.9° to +55.0°C (14.2° to 131.0°F)	**15-077-975**	31.20

Fisher Scientific™ Traceable™ Platinum High-Accuracy Refrigerator/Freezer Thermometer with Probe

Displays minimum/maximum readings for last 24 hours (each hour), seven days (each day) or last 31 days (each day)

Triple display shows current °F/ °C and minimum/maximum temperatures

- Time/Date stamp key shows the exact time and date for all minimum and maximum readings
- 4-wire platinum sensor ensures linear response and high accuracy across the entire range
- Supplied platinum waterproof stainless-steel probe provides accurate readings with tip penetration of 0.3 inch, waterproof cable

15-081-108

- Alarm is settable in 0.1° increments and signals when temperature rises above/falls below set points
- Visual LEDs and audible alarm signal continuously even if temperature returns to non-alarm range
- Permits easy one-key calibration by user
- Range: -148.00 to 199.99°F (-100.00 to 199.99°C)
- Resolution: 0.01°
- Accuracy: ±0.1°C
- Display: easy-to-read, 3-line and 2 alarm LEDs
- Cable length: 10-feet
- Size: 2.75 × 4.25 × 0.75"
- Weight: 5 oz.
- Case: high-impact, chemical-resistant ABS plastic
- 15-081-108: Handle Probe: Fast-response, waterproof, 4-wire platinum sensor/stainless-steel probe; Diameter 0.13"; Stem length: 9.0"; Overall length: 12"; 10-foot cable
- 15-081-109: Probe: 4-wire platinum; Waterproof; 0.187" dia. and 0.75" length; 10-foot cable

INCLUDES:
bBatteries, platinum RTD sensor/stainless-steel probe, magnetic strips, Velcro™ tape, bench stand, Traceable™ Certificate

CERTIFICATIONS:
An individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST™ (National Institute of Standards and Technology).

Description	Cat. No.	Each
9" stainless-steel handle probe	**15-081-108**	132.90
Probe: 0.187 dia. × 0.74"L	**15-081-109**	132.90

Fisher Scientific™ Traceable™ Big-Digit See-Thru™ Thermometer

Can be attached to the outside of a window to view outdoor temperatures

- Use outdoors, in storerooms, fume hoods, labs, cleanrooms, refrigerators and plant areas
- Window mount, wall mount
- Transparent display with 1.25" (32cm) high digits shows current and minimum/maximum temperatures
- Automatically clears and updates the min./max. readings daily
- Accuracy: ±1°C
- Resolution: 0.1°

ORDERING INFORMATION:
Dimensions: 3.5 × 4.25 × 0.75" (8.9 × 10.8 × 1.9cm)
Weight: 8 oz. (226.7g)

INCLUDES:
Mounting tape, Velcro™, AAA battery

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

15-077-959, 15-077-960

Temperature Range	Mfr. No.	Cat. No.	Each
-25° to +70°C (-13° to 158°F)	4159	**15-077-959**	31.20
-25° to +70.0°C (-32° to +21°F)	4160	**15-077-960**	31.20

Fisher Scientific™ Traceable™ Digital Thermometer with Stainless-Steel Probe

Affordable routine thermometer monitors temperature around the clock

For nonstop monitoring. With convenient high and low alarms, thermometer automatically "watches" solutions. At the touch of a button, display temperatures, switch from °F to °C, or set high/low alarms. Use in foods, soils, cuvets, water baths, wastewater and incubators.

- Can be programmed in 1° increments, producing an audible signal when temperature rises above or falls below setpoints
- Resolution is 0.1°, accuracy is ±1°C
- Alarm mode may be switched off when not required
- Probe clips to unit for handy storage
- Single battery runs continuously for one year
- 0.5" display is readable from 10'

ORDERING INFORMATION:
Probe dia. × L: 0.14 × 7.25" (3.6 × 184.2mm)
Cable length: 3' (0.91m)
Weight: 3 oz. (85g)

INCLUDES:
Probe, "AAA" battery, flip-open stand for bench use

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability for temperature only to standards provided by NIST™.

Range	Cat. No.	Each
-50° to +260°C/-58° to +500.8°F	**15-077-8A**	81.20

Fisher Scientific™ Traceable™ Kangaroo™ Thermometer

Carries its 42" probe cable in a reel-compartment "pouch" located in back of unit

Perfect carry-around portable thermometer fits in shirt pocket, or use the built-in stand with a bench foot print of only 4.5 sq.in.

14-649-79

- Intuitive operation allows every user to record identical results
- Unit automatically captures and recalls minimum and maximum temperature readings over any time period
- High and low alarm may be programmed in 1° increments
- Alarm sounds every minute until temperature returns to non-alarm condition
- Hold button freezes display to record a current reading
- Stainless-steel probe for use in acids, bases and solvents

Specifications

- Resolution: 0.1° (between -19.9 and +199.9), otherwise 1°
- Accuracy: ±1°C (between -30 and +250°C), otherwise ±2°C
- Probe diameter: 0.14"; length, 7.5"
- Large inch digits are readable from 20'
- Compact size is 4.75L × 2.5W × 0.5"H (12 × 6.4 × 1.3cm)
- Weight: 2.75 oz. (77.96g)

INCLUDES:
Silver-oxide battery — runs continuously for one year.

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-50 to +300°C/-58 to +572°F	**14-649-79**	37.40

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisher Scientific™ Traceable™ RTD Platinum Freezer Thermometer

Accurately monitors temperatures in freezers, water baths, heating blocks, incubators and refrigerators.

- 10', ultra-thin, ribbon micro-cable permits freezer doors to close on it without affecting the seal
- Fast-response, 100ohm platinum probe is triple purpose for use with liquids, air/gas, and frozen material
- RTD platinum probe measures 0.12 dia. × 5"
- Resolution, 0.1°; accuracy, ±2°C
- High-impact, chemical-resistant ABS case is 2.75 × 4.25 × 0.75" (7 × 10.8 × 1.9cm)
- Weight: 4.25 oz.

INCLUDES:
Adjustable probe holder, probe carrying case, 9V battery, Velcro™, and magnetic strips for mounting of thermometer and probe.

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

15-077-961

Range	Cat. No.	Each
-99.9° to +199.9°C	**15-077-961**	73.70

Fisher Scientific™ Traceable™ Sentry™ Thermometer with Bottle

Triple display simultaneously shows high, low and current temperatures

Allows you to instantly view if freezer, water bath or incubator is within temperature spec. Monitor temperature of any experiment when you're not there — overnight, weekends, even during lunch.

Features

- Simple, one-button operation resets high/low memories
- Probe's wire mounting bracket permits easy sensor placement
- ABS plastic case has flip-open stand, wall hanging hook, magnet, and Velcro™ mounting tape
- Low battery is signaled on display
- Resolution, 1°; accuracy, ±1°C
- Dimensions: 2.62 × 2.5 × 0.75" (6.5 × 6.4 × 1.9cm)
- Weight: 1.87 oz.
- Micro cable for sealed spaces
- Sensor and 10' (3m) cable may be placed under water, in refrigerator or in freezer
- Small cable diameter (0.06") allows refrigerator doors to close on it with no effect
- Unplugging the cable activates sensor inside unit for monitoring ambient room temperature

15-077-942, -941

INCLUDES: Battery (provides one year continuous operation)

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Temperature Range	Cat. No.	Each
Farenheit Scale	-58° to +158°F	**15-077-942**	55.30
Celsius Scale	-50° to +70°C	**15-077-941**	55.30

Fisher Scientific™ Traceable™ Waterproof Thermometer

Perfect for wet areas; with waterproof case, cable and probe

Use for round-the-clock monitoring of liquids, air/gas, or semisolids in freezers, water baths, outdoor tanks, incubators and refrigerators. Waterproof construction is ideal for wet labs, washdown areas and virtually all field applications.

02-402-0

- Stainless-steel probe is resistant to most acids, bases and solvents
- Wide temperature range covers 99% of routine temperature measurements
- Memory recalls highest and lowest temperature readings over any time period
- Solid-state construction eliminates dangers inherent in breakable glass and toxic mercury thermometers
- Resolution: 0.1° from -19.9° to +199.9°, otherwise 1°
- Accuracy: ±0.2°C or ±1°C between -20° and +100°C
- Easy-view, 0.25" high LCD digits may be read at a glance

All-Weather Compatible

- Operates in rugged and outdoor conditions
- Stainless-steel probe, 10' (3m) cable and digital display housing are all waterproof
- Case is waterproof and shockproof
- Shockproof in drop tests up to 5'

INCLUDES: Probe, cable, 1.5V silver-oxide battery for 1-year continuous monitoring, suction cups/magnet to attach to metal, and Velcro™ to attach to any surface.

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-50° to +300°C/-58° to +572°F	**02-402-0**	58.60

Fisher Scientific™ Traceable™ Waterproof K Thermometer

Technically advanced, fast-reading, yet easy-to-use thermometer uses all Type K thermocouple probes

Waterproof to seal out moisture, stops dirt, dust, fumes and water.

- Switch from °F to °C at the touch of a button
- Display updates 2.5 times per second
- Shock-resistant ABS plastic construction
- Recalls minimum and maximum temperature readings
- Differential feature shows the difference in temperature from a set point
- Jumbo-size, 0.62" high digits are readable from 10" away
- Back-lighting button permits reading in dark areas
- Hold button freezes display to capture current reading
- Switchable range: -200 to +1300°C (-328 to +2372°F)
- Resolution: 0.1°, 1°
- Accuracy: ±0.3% of the reading plus 1°C between -50° to +1000°C; otherwise 0.5% of the reading plus 1°C
- Dimensions: 3.0 × 7.25 × 1.25" (7.6 × 18.4 × 3.18cm)
- Weight: 8 oz. (82g)

INCLUDES:
Carrying case, 9V battery, and type K beaded probe with 4' cable

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Waterproof Type-K Thermometer	**15-078-186**	148.50

Fisher Scientific™ Traceable™ Workhorse™ Thermometer

Provides sharp readout in dim and very bright light

Recessed front-panel-adjustable offset allows user to adjust thermometer to a specific temperature, in-house calibration, or particular sensor for increased accuracy.

14-649-82

- High-accuracy meter, wide temperature range
- Long battery life (150 to 200 continuous hours)
- HOLD button freezes display to capture current reading
- Probe diameter: stem length: 3.12", overall length: 5"
- Weight: 6 oz. (170g); cable length: 40"
- Dimensions: 5.5L × 2.75W × 1.25"H (14 × 7 × 3cm)
- Type-K range is -50 to +1300°C and -58 to +2372°F
- Resolution is 0.1° between -50° and +200° and 1° elsewhere
- Accuracy is ±(1°C + .75%) between 0° and 500°C; ±(1°C + 1%) between 500° and 750°C; ±(1°C + 2%) between 750° and 1000°C; ±(3°C + 4%) between 1000° and 1200°C; ±2°C at -20°; ±3°C at -40°; and ±4°C at -50°

ORDERING INFORMATION: Compatible with all Type-K probes.

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.

Range	Cat. No.	Each
-50° to +1300°C/-58° to +2372°F	**14-649-82**	54.50

Oakton™ Digi-Sense Dual-Input J, K, Thermocouple Thermometer

Heavy-duty thermometer offers versatility and accuracy in a compact design

- Push-button operation
- Ergonomic design with large easy-to-read screen with back light
- Display either °C or °F
- Minimum and maximum temperature display
- Temperature offset calibration adjustment
- Hold function – freezes measurements for convenient reading and recording
- Accepts two blade female ANSI miniconnector input
- Auto-off function – turns off meter after 17 minutes of nonuse to save batteries
- Sealed keypad and ABS plastic case – Meet IP54 standards for splash resistance

ORDERING INFORMATION:
Available rubber armor – Protects meter; features a built-in stand
Optional 3-way hands-free kit

INCLUDES:
Three AA batteries provide 700 hours continous (without use of backlighting)

REQUIRES:
Probes are sold separately

CERTIFICATIONS:
UL listed and certified for Class I: Groups A, B, C, and D division, NIST™ traceable. Available with NIST certification.

13-300-200

Specifications	
Accuracy	Below -150°C (-238°F):±0.25% of reading ±1 °C (±2°F) Above -150 °C (-238°F):±0.1% of reading ±0.4°C (±0.7°F)
Resolution	0.1°C/F from -199.9° to 999.9°
Dimensions, W × H × D	4 × 7 × 2" (18 × 10.2 × 5.2cm)

Model	Temperature Range	Mfr. No.	Cat. No.	Each
Temp 10J	-210° to +1200°C (-346° to +2192°F)	WD35427-00	**13-300-199**	210.44
Temp 10K	-250° to +1372°C (-418° to +2501°F)	WD35427-10	**13-300-200**	210.44

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Timers

Clocks

Fisher Scientific™ Traceable™ Big-Digit Radio Atomic Wall Clock

Provides visibility from 20' (6.1m)

06-664-12

Controlling radio signal from the National Institute of Standards and Technology (NIST™) in Boulder, CO, automatically adjusts clock to precise time, daylight saving, leap year and leap seconds (Earth rotation wobble corrections).

- Accuracy is to 0.0001 of a second
- Digital wall clock features large, 2.25"-high digits
- Displays time in AM/PM or 24-hour time, month, date, day-of-week and ambient temperature in °C and °F (32° to 122°F and 0° to 50°C with 0.1 resolution)

ORDERING INFORMATION:
Dimensions: 9.25L × 8.75W × 0.75"H (23.5 × 22.2 × 1.9cm).
Net weight: 1.12 lb. (0.5kg)

INCLUDES:
Wall mount, screw and two AA batteries

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST.

Description	Cat. No.	Each
Digital Radio Atomic Wall Clock	**06-664-12**	81.70

Fisher Scientific™ Traceable™ Clock/Thermometer/Calendar

Unique clock combination shows the time, month, day, date and temperature

14-648-5

Wall-mounted, battery-operated perpetual clock.

- Timing accuracy: 0.01%
- Internal temperature sensor displays current reading in your choice of °C (-5° to +55°C range) or °F (23° to 131°F)
- Huge 2.13"H (5.4cm) LCD is visible from 35' (10.7m)
- Has two-tone color face and slim silhouette

ORDERING INFORMATION:
Dimensions: 9.25L × 10W × 1"H (23.5 × 25.4 × 2.5cm)

INCLUDES:
Two AA batteries, wall mount

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Clock/Thermometer/Calendar	**14-648-5**	88.80

Fisher Scientific™ Traceable™ GIANT-DIGIT Radio Atomic Clock

View giant size digits from anywhere with desk/wall mount

02-261-837

Utilizing a radio signal from the NIST™ Colorado atomic clock, unit automatically sets correct time/date, adjusts for daylight saving, leap year and even the Earth's wobble in leap seconds.

- Accurate to 0.0001 of a second, with 1 sec. resolution
- Giant-digit display measures 4.75" (12cm) — viewable from 200' (60.96m)
- Temperature range: -5° to +50°C (23° to 122°F)
- Shows date, day and 12/24 hour format
- Simultaneously displays both indoor and outdoor °F/°C temperatures

ORDERING INFORMATION:
Dimensions: 1.5L × 7.75"W (29.2 × 19.7cm); 1" thick (2.5cm)

Weight: 3.25 lb. (1.5kg)

INCLUDES:
Batteries and outdoor radio remote

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
With Ambient and Remote Temperature	**02-261-837**	111.90
With Ambient and Remote Temperature and Humidity	**02-261-838**	122.00

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To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Controllers

Fisher Scientific™ Traceable™ Walkaway™ Count-up Controllers

Use for timed shutdown or repeated ON/OFF timing

- 0.5" high (1.3cm) red LCD display indicates ON/OFF status of equipment Internal NiCd battery protects programs against power outages
- Three-pronged grounded receptacle relay controls equipment to 120V, 15A, 1800w, 0.33hp
- Accuracy: 0.01%
- Perform reproducible stirring, heating or pumping times
- Manual pause switch overrides program without disturbing it and permits equipment to be instantly turned off
- Intuitive operation permits setting a program in <5 seconds
- High-impact ABS case

Turn-off Controller

- Counts up and turns any piece of equipment off at the end of a set time period
- Programmable in three interval settings: 0.01 to 99.99 seconds, 1 to 99 minutes, 1 to 99 hours

Repeat Turn-on/Turn-off Controller

- Counts up and turns any piece of equipment on for a programmed time and off for a different programmed time
- Repeat feature automatically continues cycling on and off programmed times until manually stopped
- Programmable for separate on and off timing periods in three interval settings: 1 to 99 seconds; 1 to 99 minutes; 1 to 99 hours

15-077-964

ORDERING INFORMATION:
Dimensions: 6L × 2.75W × 3.25"H (15.2 × 7 × 8.3cm); Weight: 12 oz. (340.2g)

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Walkaway Turn-off Count-up Controller	**15-077-964**	141.50
Walkaway Repeat Turn-on/Turn-off Count-up Controller	**15-077-965**	141.50

Dimco-Gray GraLab 170 Series Timers

Offers precise timing for industrial and laboratory work — split-second accuracy

Accuracy even at maximum setting, plus ease-of-use features like large 6.5" face.

- Two switchable 3-wire receptacles: control one appliance with a switch that can either make or break circuit at zero; other receptacle is independent of switch and always breaks at zero
- Outer ring shows elapsed time; inner can be used as stop clock; red numerals count up, black numerals count down
- Power switch starts timing cycle
- Rubber base pads, wall mounting keyholes and recessed hand grip offers multiple placement options
- Sturdy 7.5 × 7.5 × 2.5" polycarbonate/PET case
- Permanent boot over power switch to prevent contamination and corrosion
- "Seconds" hand rotates one revolution/60 sec.
- "Minutes" hand rotates one revolution/60 min.

WARRANTY:
Limited one year

06-656 Series

Specifications	
Automatic Buzzer	Constant Tone
Accuracy	±0.15% at maximum setting
Input Voltage	100-130VAC, 50/60Hz; 210-250VAC, 50Hz
AC Outlet Power Rating	120VAC
Max Lamp Load, Resistive Load	600w, 1200w (resistive)
Max Motor Load	1/3hp
Approvals	UL, cUL

Model	Minimum Settings	Total Range	Mfr. No.	Cat. No.	Each
171	1 sec.	60 min.	171	**06-656**	318.40

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*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Bench

Fisherbrand® Seymour Blue™ Traceable™ Multi-Colored Timer

Features Automatic Bounceback™ Memory for repetitive timing

- Four separate timing channels, plus recall memory
- Timing capacity: 99 hours, 59 minutes, 59 seconds
- Resolution is 1 second/accuracy is 0.01%
- Count-up/count-down/alarm/clock
- Time-of-day clock (12/24 hour)

14-649-121

ORDERING INFORMATION:
Size: 2.75 × 2.25 × 0.5" (7 × 5.7 × 1.3cm). Weight: 2.75 oz. (78g)

INCLUDES:
Battery, easel bench stand and magnetic back

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Traceable Multi-Colored Timer	**14-649-121**	27.90

Fisher Scientific™ Traceable™ Double-Display Timer

Allows simultaneous programming of two different activities from 20 hours to 1 second

- Accuracy: 0.01%
- Resolution: 1 second
- Large, 0.5" high digits may be read from 10' (3m)
- Each channel has a distinct electronic alarm and display indicator when zero is reached
- Automatically counts up from zero to indicate time since alarming
- Second display mode shows time of day and stopwatch
- Alarm may be turned off or is silenced automatically after one minute
- Memory recalls a set time for repetitive timing
- Magnetic back allows placing timer on metal surfaces
- May also be used in upright position with flip-open stand

02-401-8

ORDERING INFORMATION: Dimensions: 3L × 2.5W × 0.5"H (7.6 × 6.4 × 1.3cm), Weight: 3 oz. (85g)

INCLUDES: AAA battery, providing two years of normal usage; ABS impact-resistant case

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Double-Display Timer	**02-401-8**	24.00

Fisher Scientific™ Traceable™ Multi-Colored Timer

Assorted bold colors for distinctive appearance

- Four separate timing channels, plus recall memory
- Times up to 99 hours, 59 minutes, 59 seconds
- Resolution: 1 second
- Accuracy is 0.01%
- Count-up/count-down/alarm/clock
- Easel bench stand and magnetic back

ORDERING INFORMATION:
Dimensions: 2.75 × 2.25 × 0.5" (7 × 5.7 × 1.3cm). Weight: 2.75 oz. (78g)

INCLUDES:
3 assorted, bright-colored frames and batteries

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

02-261-840

Cat. No.	Each
02-261-840	29.55

Fisher Scientific™ Traceable™ Triple-Display Timer

Three-line display permits countdown of three tests simultaneously

06-662-3

- Countdown times may be started simultaneously or each channel may be started individually
- For repetitive tests, memory returns display to the previously programmed countdown time at the touch of a button
- With magnetic back for placing on metal surfaces such as incubators or water baths. Distinct alarms for each channel
- When zero is reached, timer starts counting up to show time elapsed since alarming
- Extra-loud alarm sounds for one minute or may be silenced manually
- Easy-to-read 0.5" (13mm) LCD
- Also features time-out and time of day
- Timing Range: Three channel; 19 hours, 59 minutes, 59 seconds to 1 second
- Stopwatch: 1 second to 19 hours, 59 minutes, 59 seconds
- Accuracy: 0.01%

ORDERING INFORMATION: Dimensions: 0.87 × 2.5W × 3.12"H (2 × 6 × 8cm); Net weight: 3 oz. (85g)

INCLUDES: Two-year, AAA battery

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Each
06-662-3	39.95

Fisher Scientific™ Traceable™ Nano™ Timer

Offers ultra-small size with intuitive operation

Timer displays countdown alarm time/ stopwatch (countup) time and time of day (AM/PM and 24-hour format).

14-649-83

- Counts down or up to 23 hours, 59 minutes, 59 seconds on two timing channels
- Accuracy: 0.01%
- 0.375" high digits may be read from 10' (3m)
- For repetitive tests, two-channel memory returns display to original programmed time

ORDERING INFORMATION:
Dimensions: 2.5 × 2 × 0.5" (6.4 × 5.1 × 1.3cm); Weight: 2.5 oz. (71g)

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™

Description	Cat. No.	Each
Nano Timer	**14-649-83**	17.25

Fisher Scientific™ Traceable™ Instant-Recall Memory Timer

Designed specifically for routine tests, quality control requirements and repetitive analysis

Unique memory feature encourages devoting this timer to one piece of laboratory equipment such as a water bath, oven, stirrer or incubator.

02-401-7

- Count down at any set time from 99 minutes, 59 seconds to zero
- Accuracy: 0.01%
- Display features bright, extra-large 0.62" high digits
- Loud 30-second alarm sounds at zero
- Instant memory always returns the display to programmed time
- Magnetic back allows placing timer on metal surfaces
- Lays flat on a bench or may be placed vertically with the flip-open easel
- Spring fastener clips to pockets

ORDERING INFORMATION: Dimensions: 2.5L × 2.25W × 0.75"H (6.4 × 5.7 × 1.9cm), Weight: 2 oz. (57g)

INCLUDES: Replaceable AAA battery that powers the timer for three years of nominal use

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Description	Cat. No.	Each
Instant-Recall Memory Timer	**02-401-7**	24.85

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Prices subject to change.

Fisher Scientific™ Traceable™ Single-Direction Benchtop Timers

Without clocks

02-401-7

- Memory recall

06-662-49

06-662-8

- Memory recall
- Displays in seconds for last 10 minutes

06-662-51

- Memory recall

06-662-40

- Cumulative- and interval-split

06-662-1

- Single-action, time-in/-out, cumulative- and interval-split
- Reads in hours, minutes, seconds and hundredths or in decimals

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

	Countdown Timers				Countup Timers	
Cat. No.	**02-401-7**	**06-662-49**	**06-662-8**	**06-662-51**	**06-662-40**	**06-662-1**
Each	24.85	25.15	33.75	24.70	138.30	417.00
No. of Channels	One	One	One	One	One	12
Timing Capacity	100 Minutes	20 Hours	24 Hours	99 Minutes, 59 seconds	10 Hours	100 Hours
Resolution	1 Second	1 Minute	1 Second	1 Second	0.03 Second	0.001 Second
Accuracy	0.01%	0.01%	0.01%	0.01%	0.001%	0.001%
Display	0.62"H	0.75"H LCD, readable from 20'	0.34"H LCD	0.75"H LCD, readable from 20'	0.75"H can be read from 10'	8-digit, 0.5"H
Alarm	30 Seconds	1 minute, silenced automatically or manually	1 minute, silenced automatically or manually	30 Seconds, silenced automatically or manually	----	"Up alarm" on each channel
Dimensions	2.5L × 2.25W × 0.75"H (6.35 × 5.71 × 1.9cm)	0.5L × 2W × 3.5"H (1.3 × 5.1 × 8.9cm)	2.37 dia. × 0.5"H (6.0 × 1.6cm)	0.50L × 2.50W × 2.50"H (1.3 × 6.4 × 6.4cm)	4L × 4.25W × 1.75"H (10.16 × 10.7 × 4.44cm)	3.5L × 6.63W × 4.75"H (8.89 × 16.8 × 12.0cm)
Includes	Easel stand, clip and magnetic back	Clip and magnetic back	Easel stand, clip and magnetic back	Easel stand, clip and magnetic back	Test leads	----
Batteries Included	3-Year AA	3-Year AAA	2-year silver-oxide	2-Year AAA	2-Year AA	120VAC 60Hz, with 9V battery backup

Fisher Scientific™ Traceable™ Countdown/Countup Two-Channel Benchtop Timers

With clocks and stopwatches

- Resolution: 1 second
- Accuracy: 0.01%
- Feature memory recall
- "Thru-zero" function and time-out mode
- Channels may be programmed individually or concurrently

02-401-8

06-662-47

06-662-44

15-077-64

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	**02-401-8**	**06-662-48†**	**06-662-47**	**06-662-44**	**15-077-64**
Each	24.00	34.35	32.75	31.60	32.55
Timing Capacity	Countdown from 100 mintues; Countup to 60 minutes	24 Hours	24 Hours	24 Hours	100 Hours
Display	Double-line LCD, each 0.5"H, readable from 8 ft.	Double-line LCD, each 1"H	Double-line LCD, each 1"H	Double-line LCD, each 0.375"H	0.75"H LCD, readable from 20'
Alarm	Distinct alarms for each channel; 1 minute, silenced automatically or manually	Distinct alarm for each channel; 1 minute, silenced automatically or manually	Distinct alarm for each channel; 1 minute, silenced automatically or manually	Distinct alarm for each channel	Extra-extra-loud (100 decibels); 1 minute, silenced automatically or manually
Dimensions	3L × 2.5W × 0.5"H (7.62 × 6.35 × 1.27cm)	0.5L × 3.75W × 5.5"H (1.27 × 9.52 × 13.97cm)	0.5L × 3.75W × 5.5"H (1.27 × 9.52 × 13.97cm)	0.875L × 2.75W × 2.125"H (2.22 × 6.98 × 5.39cm)	0.5L × 4W × 2.5"H (1.27 × 10.16 × 6.35cm)
Includes	Easel stand, clip and magnetic back	Wall-mounting brackets	Wall-mounting brackets	Easel stand, clip and magnetic back	Easel stand and magnetic back
Battery Included	2-year AAA	2-year AAA	2-year AAA	1-year silver-oxide	2-year AAA

† 06-662-48 is white, but otherwise looks the same as 06-662-47.

Fisher Scientific™ Traceable™ Countdown/Countup One-Channel Benchtop Timers

WIth 1 second resolution and 0.01% accuracy

14-649-15

- "Thru-zero" function
- Full keyboard

06-662-50

- Memory recall
- Full keyboard

14-648-35

- "Thru-zero" function and time-out mode
- During countdown, announces each hour until 1 hour is reached, every 10 minutes until 1 minute, every 10 seconds until 10 seconds remain and then each second
- Announces elapsed time since alarming

06-662-45

- Countdown channel instantly resets
- Memory remains until reprogrammed

06-662-16

- Memory recall, "thru-zero" function and time-out mode

14-649-14

- Time-out mode
- Full keyboard

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	14-649-14	06-662-50	14-648-35	06-662-45	06-662-16	14-649-15
Each	45.45	33.00	29.45	32.00	40.75	49.90
Timing Capacity	Countdown from 100 minutes; countup to 60 minutes	10 Hours	24 Hours	24 Hours	24 Hours	100 Hours
Display	0.375"H LCD	0.75"H LCD, readable from 20'	0.5"H LCD	0.5"H LCD	0.34"H LCD	0.375"H LCD
Clock	No	With AM/PM indicators	Announces time when any key is pressed	Yes	With AM/PM indicators	Yes
Stopwatch	With automatic rollover and time-out mode	With AM/PM indicators	Yes	Yes	Yes	Yes
Alarm	1 minute, silenced automatically or manually	High-decibel; 1 Minute, silenced automatically or manually, memory reset	1 Minute, silenced automatically or manu-ally; 6 distinct alarm sounds	1 Minute, silenced automatically or manually	1 minute visual and audible, silenced auto-matically or manually	1 minute, silenced automatically or manually
Dimensions	0.5L × 2.5W × 2.25"H (1.27 × 6.35 × 5.7cm)	1L × 2.5W × 3"H (2.54 × 6.35 × 7.62cm)	0.5L × 3.25W × 2.5"H (1.27 × 8.25 × 6.35cm)	0.75L × 3.25W × 3.25"H (1.9 × 8.25 × 8.25cm)	2.25L × 2.25W × 0.5"H (5.71 × 5.71 × 1.27cm)	0.5L × 2.75W × 2.75"H (1.27 × 6.98 × 6.98cm)
Includes	Easel stand, clip, hole for lanyard and magnetic back	Magnetic back	Easel stand, clip and magnetic back	----	Easel stand, lapel clip and magnetic back	Easel stand, clip and magnetic back
Battery Included	2-year silver-oxide	2-year AAA	2-year silver-oxide	3-year AA	2-year silver-oxide	2-year silver-oxide

Fisher Scientific™ Traceable™ Countdown/Countup Three- and Four-Channel Benchtop Timers

One-second resolution

06-662-55

06-662-3

- Memory recall, "thru-zero" function and time-out mode
- Channels may be started simultaneously or individually

06-662-46

- Memory recall and "thru-zero" function
- Channels may be programmed individually or concurrently

06-662-5

- Memory recall, "thru-zero" function and time-out mode
- Channels can be started simultaneously or individually

14-649-17

- Memory recall, "thru-zero" function and time-out mode

06-662-9

- "Thru-zero" function and time-out mode

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

	Three-Channel Timers				Four-Channel Timers	
Cat. No.	**06-662-55**	**06-662-3**	**06-662-46**	**06-662-5**	**14-649-17**	**06-662-9**
Each	58.70	39.95	51.60	83.00	39.85	48.65
Timing Capacity	10 Hours	20 Hours	100 Hours	100 Hours	100 Hours	100 Hours
Accuracy	0.001%	0.01%	0.01%	0.001%	0.01%	0.01%
Display	0.25"H LCD	Triple-line LCD, each 0.5" (1.3cm) H	Triple-line LCD, each 0.375"H	Triple-line LCD, each 0.375"H	6-digit, 0.75"H LCD	0.33"H LCD
Clock	No	Yes	Yes	Yes	Yes	Yes
Stopwatch	No	Yes	Yes	Yes	Yes	Yes
Alarm	Distinct alarm for each channel; 1 minute, silenced automatically or manually	Extra-loud alarm; 1 minute, silenced automatically or manually	Audible and visual alarms	Distinct audible and visual alarm for each channel; 1 minute, silenced automatically or manually	High-decibel; 1 minute, silenced automatically or manually	Visual and audible alarm for each channel; 1 minute, silenced automatically or manually
Dimensions	1.37L × 3W × 3"H (3.47 × 7.62 × 7.62cm)	0.87L × 2.5W × 3.12"H (2.2 × 6.35 × 7.92cm)	0.5L × 2.75W × 3.25"H (1.27 × 3.22 × 8.25cm)	1L × 3W × 3.25"H (2.54 × 7.62 × 8.25cm)	2.50L × 2.375W × 0.5"H (6.35 × 6.03 × 1.27cm)	2.75L × 2.375W × 0.625"H (6.98 × 6.03 × 1.58cm)
Includes	Chemical-resistant ABS plastic case	Magnetic back	Easel stand and magnetic back	Four rubber feet	Easel stand, clip, hole for lanyard and magnetic back	Easel stand, clip, hole for lanyard and magnetic back
Battery Included	2-year AA	2-year AAA	1.5 -year silver-oxide	2-year AAA	2-year silver-oxide	2-year silver-oxide

Fisher Scientific™ Traceable™ Three-Line Alarm Timer

Perfect unit to dedicate to a group of repetitive tests

06-662-46

User-friendly timer displays three different countdown/alarm times simultaneously. Three unique channels may be started individually or concurrently and programmed to count down from 99 hours, 59 minutes, 59 seconds to 1 second. When zero is reached, an alarm sounds, TIME'S UP is displayed and the timer begins counting up.

- Memories return the display to the previously programmed time
- May also be used as three stopwatches or in any combination of up/down timing
- Display has a time-of-day clock
- Quartz-crystal timing accuracy is 0.01%
- Digits are .375" high
- Chemical-resistant ABS plastic case size: 2 × 3.25 × 0.5"
- Weight: 3 oz.

INCLUDES:
Individually serial-numbered Traceable Certificate, magnetic back, easel stand and 1½-year silver-oxide battery

Cat. No.	Each
06-662-46	51.60

Fisher Scientific™ Traceable™ 100-Hour Countdown Alarm Timer/Stopwatch

Quartz-crystal accuracy (0.01%)

06-662-9

Timer: Counts down from 99 hours, 59 minutes, 59 seconds to 1 second. Stopwatch: Counts up from 1 second to 99 hours, 59 minutes, 59 seconds.

- Four countdown channels plus stopwatch channel and time-of-day clock
- "Thru-zero" function counts down, alarms, counts up
- Time-out mode
- Automatic or manual "off"
- One-minute audible and visual alarms
- Easel stand, lapel clip, hole for lanyard and magnetic back
- LCD is 0.31" high (7.6mm)

INCLUDES: Two-year silver-oxide battery and sturdy ABS plastic case

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Each
06-662-9	48.65

Fisher Scientific™ Traceable™ Countup Benchtop Timers

Provide single-action timing, time-in/time-out and cumulative split functions

- Handheld
- Rugged ABS plastic case
- Battery is included

06-662-1

Key Features

- 100-Hour Timer: Single-action, time-in/-out, cumulative- and interval-split; reads in 99 hours, 59 minutes, 59 seconds, 99 hundredths; 99999.999 seconds; 9999.9999 minutes; or 999.99999 hours
- 10-Hour Timer: Cumulative and interval-split functions

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Timer	Accuracy	Display	Power Supply	Cat. No.	Each
100 Hours	0.001%	8-digit, 0.5"H	120VAC 60Hz, with 9V battery backup	06-662-1	417.00
10 Hours	0.001%	0.75"H can be read from 10'	2-Year AA	06-662-40	138.30

Fisher Scientific™ Traceable™ Three-Channel Alarm Timers

Accuracy of 0.001%

06-662-5

- Three-line display
- Three-channel timing with individual or simultaneous start
- "Thru-zero" function counts down, alarms and counts up
- Counts down and up simultaneously
- Time-out mode
- Memory recall automatically returns to preset time
- Alarm volume is adjustable
- Visual and audible alarm operates for one minute or continuously
- Time-of-day clock with AM/PM indicators
- Four rubber feet keep instrument off wet bench
- LCD is 0.75"H (9.5mm) LCD
- Timing range: 99 hours, 59 minutes, 59 seconds to 1 second
- Stopwatch: 1 second to 99 hours, 59 minutes, 59 seconds

ORDERING INFORMATION: Net weight: 3 oz. (85g)

INCLUDES: AAA alkaline battery for up to two years of use and chemical-resistant ABS plastic case.

CERTIFICATIONS: Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Each
06-662-5	83.00

Handheld

Fisher Scientific™ Traceable™ Multi-Colored Timer

Assorted bold colors for distinctive appearance

- Four separate timing channels, plus recall memory
- Times up to 99 hours, 59 minutes, 59 seconds
- Resolution: 1 second
- Accuracy is 0.01%
- Count-up/count-down/alarm/clock
- Easel bench stand and magnetic back

02-261-840

ORDERING INFORMATION:
Dimensions: 2.75 × 2.25 × 0.5" (7 × 5.7 × 1.3cm). Weight: 2.75 oz. (78g)

INCLUDES:
3 assorted, bright-colored frames and batteries

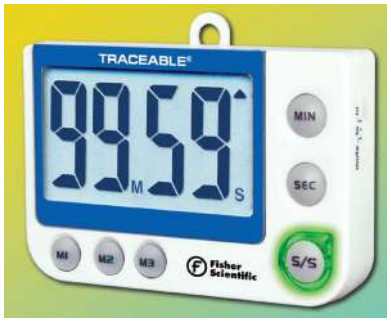
CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Each
02-261-840	29.55

Fisher Scientific™ Traceable™ Flashing LED Alert Big-Digit Alarm Timer

Massive, 1-inch-high display permits viewing from across the lab

- Flashing LED
- Programmable memory — up to 3 memories can be stored at any time
- Adjustable alarm volume
- Use any countdown time from 99 miuntes, 59 seconds to 1 second
- When zero is reached, the timer starts counting up to show time elapsed since alarming
- Unique green light flashes every 10 seconds while in countdown mode; red light flashes when zero has been reached when the alarm is sounding



S02271

CERTIFICATIONS:
Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST.

Description	Mfr. No.	Cat. No.	Each
Flashing LED Alert Big-Digit Alarm Timer	5013	06-664-251	25.90

Fisher Scientific™ Traceable™ Flashing LED Big-Digit Dual Channel Timer

Times two different activities simultaneously

- Large, 0.63"-high LCD digits can be seen from 20 feet away
- Time each channel counts separately: 99 hr. 59 min. 59 sec. down to 1 sec.
- Each channel has a distinct alarm and visual indicator when zero is reached
- Green light flashes during countdown; red after zero is reached and alarm is sounding
- Audible alarms have three settings: high, low and muted (silent)
- Alarm may be turned off or silences automatically after 1 min.
- For repetitive timing, microcomputer chip memory permits two countdown times
- For normal timing, memory recalls last countdown time set
- Magnetic back, flip-open easel and opening for lanyard for easy placement of timer
- Accuracy: 0.01%
- Resolution: 1 sec.

06-664-252

ORDERING INFORMATION:
L × H × W: 3.5 × 3 × 0.63" (8.9 × 7.6 × 1.6cm); 3 oz. (85g)

INCLUDES:
Two AAA alkaline batteries; individually serial-numbered Traceable™ Certificate ISO 17025 calibration laboratory accredited by A2LA

COMPLIANCE:
Traceable to standards provided by NIST™ (National Institute of Standards and Technology)

Description	Cat. No.	Each
Flashing LED Big-Digit Dual Channel Alarm Timer	06-664-252	26.35

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Stopwatches

Fisher Scientific™ Traceable™ Waterproof/Shockproof Stopwatches

Choose from a waterproof/shockproof model or a water-/shock-resistant model

Both units time to 24 hours. With single-action, time-in/time-out, cumulative split and continuous timing. Resolution is 0.01 second for the first 30 minutes; units then continue timing to 23 hours, 59 minutes, 59 seconds in 1-second increments.

- Chronograph displays time-of-day to the second, AM/PM, date and day of the week
- Time-of-day alarm
- Digits are 0.375" high
- O-ring sealed with durable ABS plastic case
- Ideal for lab or plant use
- Unit 06-662-56 is waterproof to three atmospheres
- Accuracy is 0.01%
- Dimensions: 2.12L × 2.75W × 0.5"H (5.4 × 6 × 1.3cm)
- Net weight: 1 oz. (28g)

INCLUDES:
Two-year battery, lanyard and instructions

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

14-649-11

Description	Cat. No.	Each
Waterproof/Shockproof	**06-662-56**	20.95
Water-/Shock-Resistant	**14-649-11**	25.85

Fisher Scientific™ Traceable™ 10-Hour Stopwatches

For general-purpose applications

- Resolution: 0.01 seconds
- All units: Single-action timing, time-in/time-out, continuous timing, and cumulative split functions
- Handheld with rugged ABS plastic case
- Net weight: 2.5 oz. (71g)

Cat. Nos. 14-649-8, 14-649, 14-649-9, 14-648-4:

- Clock displays time of day to the second, indicates AM/PM, date, and the day of the week.

Cat No.: 14-649-9

- 60 memories recall all splits
- Display sample numbers 1 to 60

CERTIFICATIONS:
Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

14-648

Cat. No.	14-649-5	14-649-8	14-648	14-649	14-649-9	14-648-4
Each	127.50	73.10	163.40	175.60	47.30	58.40
Accuracy	0.0005%	0.001%	0.0005%	0.0005%	0.001%	0.001%
Display	Single-line LCD, 0.37"H	Double-line LCD, top line 0.12"H (0.3cm), bottom line 0.25"H	Double-line LCD, 0.25"H	Triple-line LCD, top two lines 0.12"H, third line 0.25"H	Triple-line LCD, each 0.25"H	Triple-line LCD, 0.75"H
Dimensions	2.5L × 3W × 0.5"H (6.35 × 7.62 × 1.27cm)	2.375 dia. × 0.625" (6.03 × 1.58cm)	2.5L × 3W × 0.75"H (6.35 × 7.62 × 1.9cm)	2.5L × 3W × 0.75"H (6.35 × 7.62 × 1.9cm	2.125L × 2.625W × 0.75"H (5.39 × 6.66 x 1.9cm)	3L × 2.5W × 0.87"H (7.62 × 6.35 × 2.2cm)
Includes	Water-resistant, O-ring-sealed ABS plastic case and lanyard	Shockproof ABS plastic case and lanyard	Water-resistant, O-ring-sealed ABS plastic case and lanyard	Water-resistant, O-ring-sealed ABS plastic case and lanyard	Lanyard	Water- and shock-resistant, O-ring-sealed ABS plastic case with nonskid rubber sides, detachable clip, and Velcro™ for vertical mounting
Battery Included	4-year silver-oxide	2-year silver-oxide	2-year silver-oxide	4-year silver-oxide	2-year silver-oxide	4-year silver-oxide

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Prices subject to change.

Before You Buy **Titrators**

METTLER TOLEDO

Coulometric or Volumetric Karl Fischer?

Generally, if the sample's water content is greater than 1000ppm, volumetric should be used. However, with appropriate reagents (2mg/mL water) and a balance of 0.01mg readability, repeatable measurements can be made of 50ppm or less. If the samples are in the low ppm range (below 1000ppm), a coulometric unit is probably suitable.

Which Titrator?

A simple pH end point titrator is used to measure acidity, alkalinity and pH. For Food and Beverage industry use, look for features that support total acidity, Vitamin C, salt content and SO_2 measurement. Flexibility is important when performing different types of titrations.

What Accessories Are Needed?

For water in solid samples, a KF drying oven is commonly used. A balance may be required for sample weighing. A printer (USB-P25/RS-P42) or software are options for result documentation. An autosampler will automate the analysis of multiple samples. Electrodes for $AgNO_3$ titrations, redox titrations and non-aqueous pH titrations may be needed.

Features To Look For

Ease of Use:

- Color touchscreen user interface.
- Daily routines are available as Shortcuts on the Homescreen with V20/C20/G20. Starting samples and concentration, blank or drift determinations is as easy as One Click.
- With EasyPlus™ KF Titrators, operation is simple with the iTitrate™ apps - based user interface. The intuitive system menu navigation saves training time and makes daily tasks simpler and quicker.
- Standard resource and method databases enable the intuitive creation of methods on the V20/C20/G20.

Security:

- Safe and effective solvent management – The Solvent Manager (V20/C20) and EasyPump (EasyPlus KF) liquid handling devices protect users against contact with chemicals and allow easy solvent/reagent exchange.
- Intelligent burettes (V20/C20/G20) – The burette stores concentration data and expiration dates on an RFID chip, which are automatically recognized when placed on the titrator. This eliminates the possibility of using the wrong or an expired titrant.
- Emergency stop – Pressing the red "reset" button terminates every action and is independent of the status of the titrator or location in the menu tree.
- Data storage – LabX express titration software (V20/C20/G20) archives all results in a database to be easily recalled at a later date. Create customized report layouts for specific GLP-compliant documentation. It also supports "dual mode," allowing access from either the PC or the titrator. Easy Direct software (EasyPlus) data collection starts at your PC, archiving results even if the EasyDirect™ Titration Software is not running.

FEATURE	EASY PH	EASY CI	EASY OX	EASY PLUS	EASY KFV	G20	V20	C20
pH End Point Titrations	•			•		•		
Salt (Cl) Analysis		•		•		•		
Redox Analysis			•	•		•		
Open Method Parameters						•	•	•
Solvent Management					•	Opt.	•	•
Volumetric Karl Fischer					•		•	
Coulometric Karl Fischer								•
Plug & Play Burettes						•	•	

Titration

General Purpose

METTLER TOLEDO™ EasyPlus™ Easy pH Titrators

Simplifies and speeds up automated acid/base endpoint or inflection/equivalence point titrations

01-912-541

- Swiss design and construction in accordance with highest software and hardware standards
- High quality component construction, capable of enduring harsh laboratory conditions
- Small design capable of performing any basic titration with ease
- Built-in iTitrate™ intelligence requires few parameters to be set before the instrument is ready for titration
- Gives accurate, reproducible and repeatable results
- Shows results automatically which are stored and are available for print or transfer to EasyDirect™ software
- Smartphone-style apps design is used to control all major instrument functions, making it easy to use
- LongClick™ helps to start the last analysis run without always navigating the routine analyses
- EasySetup guides steps for installation and programming
- Simple and intuitive navigation speaks 14 different languages including Arabic, Chinese, Thai, Portuguese and English
- Reduces training time with the help of app style user interface while increasing work speed and simplicity
- Aqueous and non-aqueous pH electrodes choice makes this titrator ideal for many applications

INCLUDES:
Standard delivery components:

- EG11-BNC sensor pH aqueous
- EasyPlus burette 20mL
- EasyPlus tubing set instrument
- EasyStir GT
- EasyPlus titration head GT
- EasyPlus drying tube
- Valve
- Bottle head
- Insert set titration head GT
- Burette cover set

Description	Mfr. No.	Cat. No.	Each
Easy pH Titrator	30060041	**01-912-541**	2750.00

To learn more about METTLER TOLEDO products, visit www.fishersci.com/mettlertoledo

Specifications	
pH/mV Sensor Input	
Measuring Range:	±2000mV/0-14pH
Resolution:	±0.1mV
Temperature Sensor Input	
Measuring Range:	0° to 100°C
Resolution:	±0.1°C
Power Supply	
Input Voltage:	24 VDC/1.25A
Line Input Voltage:	100-240V±10%
Input Frequency:	50/60 Hz
Environment	
Ambient Temperature:	4° to 40°C
Atmospheric Humidity:	Max. 80% at 31°C
Titrator Dimensions	
Dimensions:	8.66D × 6.69W × 13.7"H (220 × 170 × 350mm)
Control and Display	
Touchscreen:	4.3", 480 × 272 pixel RGB
Communication	
USB-A and USB-B:	USB full/low speed

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Prices subject to change.

METTLER TOLEDO™ EasyPlus™ Easy Ox Titrators

Use of platinum ring electrode simplifies and speeds up automated reduction and oxidation (redox) titrations

01-912-542

- Swiss design and construction in accordance with highest software and hardware standards
- High quality component construction, capable of enduring harsh laboratory conditions
- Small design capable of performing any basic titration with ease
- Built-in iTitrate™ intelligence requires few parameters to be set before the instrument is ready for titration
- Gives accurate, reproducible and repeatable results
- Shows results automatically which are stored and are available for print or transfer to EasyDirect™ software
- Smartphone-style apps design is used to control all major instrument functions, making it easy to use
- LongClick™ helps to start the last analysis run without always navigating the routine analyses
- EasySetup guides steps for installation and programming
- Consists of platinum ring redox-sensing electrode (useful in various food, beverage, galvanic and environmental analyses)
- Designed for simplicity
- Simple and intuitive navigation speaks 14 different languages including Arabic, Chinese, Thai, Portuguese and English
- Reduces training time with the help of app style user interface while increasing work speed and simplicity
- Eliminates manual calculations and documentation with printer or EasyDirect™ Titration PC Software

INCLUDES:

Standard delivery components:

- EM40-BNC Sensor Redox mV
- EasyPlus burette 20mL
- EasyPlus tubing set instrument
- EasyStir GT
- EasyPlus titration head GT
- EasyPlus drying tube
- Valve
- Bottle head
- Insert set titration head GT
- Burette cover set

Description	Mfr. No.	Cat. No.	Each
Easy Ox Titrator	30060042	**01-912-542**	3800.00

Specifications	
mV Sensor Input	
Measuring Range	±2000mV
Resolution	±0.1mV
Polarized Sensor Input	
Current Source Redox Ipol	0 to 5µA
Resolution	±0.1µA
Measuring Range (Voltage)	0 to 2000mV
Power Supply	
Input Voltage	24VDC/1.25A
Line Input Voltage	100 to 240V ± 10%
Input Frequency	50/60 Hz
Environment	
Ambient Temperature	5° to 40°C
Atmospheric Humidity	Max. 80% at 31°C
Titrator Dimensions	
D × W × H	220 × 170 × 350mm
Control and Display	
Touchscreen	4.3", 480 × 272 pixel RGB
Communication	
USB-A and USB-B	USB full/low speed

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METTLER TOLEDO™ EasyPlus™ Easy Cl Titrators

Used to measure and speed up simple, automated precipitation titrations

Ideal for determination of chloride content in food industry, salt content of waste or drinking water, sulfide or mercaptan content of oils and lubricants and silver content of solutions and dissolved metals.

- Swiss design and construction in accordance with highest software and hardware standards
- High quality component construction, capable of enduring harsh laboratory conditions
- Small design capable of performing any basic titration with ease
- Built-in iTitrate™ intelligence requires few parameters to be set before the instrument is ready for titration
- Gives accurate, reproducible and repeatable results
- Shows results automatically which are stored and are available for print or transfer to EasyDirect™ software
- Smartphone-style apps design is used to control all major instrument functions making it easy to use
- LongClick™ helps to start the last analysis run without always navigating the routine analyses
- EasySetup guides steps for installation and programming
- Consists of silver ring electrode and determines chloride by silver nitrate titration
- Simple and intuitive navigation speaks 14 different languages including Arabic, Chinese, Thai, Portuguese and English
- Reduces training time with the help of app style user interface while increasing work speed and simplicity
- Meets all argentometric titration needs

INCLUDES:
Standard delivery components:

- EM45-BNC Sensor Precipitation
- EasyPlus burette 20mL
- EasyPlus tubing set instrument
- EasyStir GT
- EasyPlus titration head GT
- EasyPlus drying tube
- Valve
- Bottle head
- Insert set titration head GT
- Burette cover set

Specifications	
pH/mV Sensor Input	
Measuring Range	±2000mV/0 to 14 pH
Resolution	±0.1mV
Power Supply	
Input Voltage	24VDC/1.25 A
Line Input Voltage	100-240V ± 10%
Input Frequency	50/60 Kz
Environment	
Ambient Temperature	5° to 40°C
Atmospheric Humidity	Max. 80% at 31°C
Control and Display	
Touchscreen	4.3", 480 × 272 pixel RGB
Communication	
USB-A and USB-B	USB full / low speed
Titrator Dimensions	
D × W × H	8.66D × 6.69W × 13.7"H (220 × 170 × 350mm)

Description	Mfr. No.	Cat. No.	Each
Easy Cl Titrators	30060043	**01-912-543**	3200.00

METTLER TOLEDO™ EasyPlus™ Easy Pro Titrators

Combines acid/base inflection point, pH endpoint and precipitation/redox indicative titrations to determine most common parameters in food, beverage and chemical products

Ideal for determination of simple titrations of juice, wine, p- and m-value, free fatty acids in food and alkalinity, chloride in food or water and sulfides in oils, Vitamin C in beverages and reducing sugar in wines and sulfite in water.

01-912-544

- Designed and constructed by Swiss development team in accordance with highest software and hardware standards
- High quality components capable of enduring harsh laboratory conditions
- Small design capable of performing any basic titration with ease
- Built-in iTitrate™ intelligence requires few parameters to be set before titration
- Automatically calculate accurate, reproducible and repeatable results which are stored and available for print or transfer to EasyDirect™ software using predefined formulas
- Sensor test helps to correct problem
- Smartphone-style apps design is used to control all major instrument functions, making it easy to use
- LongClick™ helps to start last analysis run without always navigating routine analyses
- EasySetup guides steps for installation and programming
- Reduces training time with help of app style user interface while increasing work speed and simplicity
- Eliminate manual calculations and documentation with printer or Titration PC Software

INCLUDES: Standard delivery components:

- EG11-BNC Sensor pH aqueous
- EasyPlus burette 20mL
- EasyPlus tubing set instrument
- EasyStir GT
- EasyPlus titration head GT
- EasyPlus drying tube
- Valve
- Bottle head
- Insert set titration head GT
- Burette cover set

Specifications	
Control and display	
Touchscreen	4.3", 480 × 272 pixel RGB
Communication	USB full / low speed
Power supply	
Input Voltage	24 VDC / 1.25 A
Line input voltage	100 to 240V ±10
Frequency	50/60 Hz
pH/mV sensor input	
Measurement Ranges	±2000mV/0 to 14 pH
Resolution	±0.1mV
Polarized sensor input	
Current source redox Ipol	0 to 5µA
Resolution	±0.1µA
Measuring range (voltage input)	0 to 2000mV
Temperature sensor input	
Measuring range	0° to 100°C
Resolution	±0.1µA
Environment	
Ambient temperature	5° to 40°C
Atmospheric humidity	Max. 80% at 31°C
Dimensions	220D × 170W × 350mm H

Description	Mfr. No.	Cat. No.	Each
Easy Pro Titrator	30060044	**01-912-544**	5000.00

METTLER TOLEDO™ EasyPlus™ Easy KFV Titrators

Ideal for determination of routine volumetric Karl Fischer™ titration in food, chemical products and other sample types

01-912-545

- Test sample in range from 100ppm to 100%
- Designed and constructed by Swiss development team in accordance with highest software and hardware standards
- High quality components capable of enduring harsh laboratory conditions
- Built-in iTitrate™ intelligence requires few parameters to be set before titration
- Automatically calculate accurate, reproducible and repeatable results which are stored and available for print or transfer to EasyDirect™ software using predefined formulas
- Sensor test helps to correct problem
- Smartphone-style apps design is used to control all major instrument functions, making it easy to use
- LongClick™ helps to start last analysis run without always navigating routine analyses
- EasySetup guides steps for installation and programming
- Simple and automatic titrant standardizations
- Have injection port for syringes and pipetted liquid samples
- Handy weighing/carrying spoon for easy and spill-free solid sample introduction
- Reduces training time with help of app style user interface while increasing work speed and simplicity
- Eliminate manual calculations and documentation with printer or Titration PC Software

INCLUDES:
Standard delivery components:

- EM43-BNC sensor redox ipol
- EasyPlus burette 10mL
- EasyPlus tubing set instrument
- EasyPlus tubing set EasyPump
- EasyStir KF
- EasyPlus titration head KF
- EasyPlus drying tube
- Valve
- Bottle head
- Insert set titration head KF
- EasyPump
- Weighing boat and stopper set
- KF vessel set
- Burette cover set

Description	Mfr. No.	Cat. No.	Each
Easy KFV Titrators	30060045	**01-912-545**	4900.00

Specifications	
Control and display	
Touchscreen	4.3", 480 × 272 pixel RGB
Polarized sensor input	
Current source KF	0 to 5µA
Resolution	±0.1mV
Measuring range (voltage input)	0 to 2000mV
Power supply	
Input Voltage	24 VDC / 1.25 A
Input frequency	50/60 Hz
Environment	
Ambient temperature	0° to 40°C
Atmospheric humidity	Max. 80% at 31°C
Titrator dimensions	8.66D × 6.69W × 13.7"H (220 × 170 × 350mm)
Control and display	
Control	4.3", 480 × 272 pixel RGB
Communication	USB full / low speed
Measuring range (KF)	100ppm up to 100%

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Karl Fischer

METTLER TOLEDO™ C20 and V20 Series Karl Fischer™ Titrators

Simplest, most secure water determination

Provides water determination running with one click of a touchscreen. One Click™ solvent exchanges ease the task of emptying and filling the vessel — and all other daily tasks can be simplified to One Click shortcuts on the home screen. True plug-and-play technology adds automatic recognition of burets on the V20, further enhancing security.

101-911-136, 01-911-137

- Simple and fast operation
- Safe handling of chemicals
- Easy-to-use touchscreen interface
- User-specific home screen featuring intuitive shortcuts for routine tasks
- Coulometric generation cell; choose Model C20D with diaphragm or Model C20X without diaphragm

Specifications	
Polarized Sensor Input	
Measurement Ranges	-2000 to +2000mV
Resolution	0.1mV
Limits of Error	2mV
Polarization Current Range	0 to 24µA
Polarization Current Resolution	0.1µA
Polarization Current Limits of Error	1µA
Environment	
Ambient Temperature	5° to 40°C
Atmospheric Humidity	max. 80% at 31°C
Touchscreen	VGA 5.7" color TFT, 320 × 240 pixel
Short Cuts	Max. 4 per user
Diaphragm	Generator cell with our without diaphragm available
Display	Color touchscreen with One Click user interface
Languages	English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean
Number of user methods	max. 5
Drying Oven Option	DO308
Data Interface	USB printers or the USB-P25 compact paper roll printer for secure and GLP-compliant paper recording
Data Interface	LabX titration PC software via USB or direct Ethernet (TCP/IP)

Model	Titration Modes	Ranges	Mfr. No.	Cat. No.	Each
V20	Volumetric	100ppm to 100%	51105500	**01-911-135**	7700.00
C20X (without Diaphragm)	Coulometric	1ppm to 5%	51105512	**01-911-136**	7700.00
C20D (with Diaphragm)	Coulometric	1ppm to 5%	51105510	**01-911-137**	7700.00

METTLER TOLEDO™ Coulometric Reagent Exchange Set

Volumetric Karl Fischer™ compact titrators have been designed for a wide range of water content applications — determinations from a 100ppm to 100% water, quickly and precisely

Compact coulometric titrators are ideal for water contents in the range 1ppm to 5%.

Description	Mfr. No.	Cat. No.	Each
Reagent Exchange Set	51105606	**01-911-144**	120.00

Potentiometric

METTLER TOLEDO™ G20 Potentiometric Titrator for Food, Water and Chemical Titrations

Simple, dependable and ready-to-go

- One Click™ user interface with user-specific homescreen, shortcuts and operating language
- Plug and play buret and sensor recognition
- Compact and simple automation with the Rondolino titration stand
- Use the Solvent Manager to avoid contact with harmful chemicals
- GLP compliant Sensor test promises reliable results
- LabX™ light titration offers data security and comprehensive documentation

09-317-580

Description	Mfr. No.	Cat. No.	Each
G20 Compact Titrator featuring One Click Titration	51105520	**09-317-580**	11,250.00
Rondolino Automated Stand	51105521	**01-912-343**	14,490.00

ON THE WEB...

Looking for more Titration?

Visit www.fishersci.com and search for Titration

Titration Accessories

METTLER TOLEDO™ pH Plug and Play Glass Titration Electrodes

For direct pH measurements and acid/base titrations in aqueous or non-aqueous media

- Plug and play sensor with integrated sensor chip for secure handling
- ARGENTHAL™ reference system present
- Features refillable reference electrolyte
- Shaft material is made of glass

Model DGi101-SC and DGi102-Mini

- U-glass type membrane glass
- Diaphragm is ceramic pin
- Silver ion trap to ensure that the electrolyte is absolutely free from silver ions

DGi111-SC

- HA-taped type membrane glass
- Diaphragm is ceramic pin
- Silver ion trap to ensure that the electrolyte is absolutely free from silver ions

DGi113-SC

- A41 cylindrical type membrane glass
- Movable PTFE sleeve junction
- Integrated glass sleeve for secure fixation in the titration head

DGi115-SC

- HA-cylindrical type membrane glass
- Fixed ground glass sleeve junction
- Silver ion trap to ensure that the electrolyte is absolutely free from silver ions

DGi116-Solvent

Glass titration electrode

- Spherical A41 glass membrane of low resistance for fast and sensitive pH response and chemical resistance
- Easy-to-clean glass sleeve junction providing a uniform electrolyte flow
- Gold shielding for efficient electric and static shielding
- Movable ground glass sleeve junction

DGi117-Water

- Double junction construction
- Fixed ground-glass sleeve junction
- Features Pt1000 temperature sensor
- Integrated glass sleeve for secure fixation in the titration head
- Gold shielding against electrostatic effects
- LoT spherical type membrane glass
- Spherical glass membrane of low resistance
- MultiPin™ screw cap for secure connection of combined electrode and temperature probe cable

ORDERING INFORMATION: Length, 150mm; Diameter, 12mm

INCLUDES:
25mL of reference electrolyte, detachable cable and quality certificate with unique serial number

Model	Description	For Use with	Temperature Range	pH Range	Shaft	Mfr. No.	Cat. No.	Each
DGi101-SC	For small titration vessels and Rondo 30 sample changer	Aqueous media	0-100°C	0-14	3mm	51109507	**01-911-554**	412.00
DGi102-Mini	For small titration vessels and Rondo 30 sample changer	Aqueous media	0-100°C	0-14	6mm	51109508	**01-911-555**	412.00
DGi111-SC	Multi-talented acid-base electrode	Aqueous media	0-80°C	0-14	12mm	51109500	**01-911-566**	331.00
DGi113-SC	With moveable sleeve diaphragm	Nonaqueous media	0-60°C	0-12	12mm	51109502	**01-911-556**	373.00
DGi115-SC	With moveable sleeve diaphragm	Aqueous media	0-100°C	0-14	12mm	51109504	**01-911-557**	440.00
DGi116-Solvent	With moveable sleeve junction	Nonaqueous media	0-60°C	0-12	12mm	51109505	**01-911-558**	383.00
DGi117-Water	With integrated temperature sensor	Aqueous media	0-100°C	1-11	12mm	51109506	**01-911-559**	563.00

METTLER TOLEDO™ Plug and Play Combined Metal Titration Electrodes

Plug and play sensor with integrated sensor chip for secure handling

- Contains ceramic frit for redox/precipitation titrations with change of the pH value
- Features pure metal sensing element
- ARGENTHAL™ reference system present
- Refillable reference electrolyte (3 mol/L KCl)

Model	Description	Mfr No.	Cat. No.	Each
DMi140-SC	Platinum ring electrode for redox titrations	51109520	**01-911-560**	323.00
DMi141-SC	Silver ring electrode for argentometric titration	51109530	**01-911-561**	323.00

METTLER TOLEDO™ EasyPlus™ Titrator Accessories

For use with METTLER TOLEDO™ EasyPlus™ Titrators

Description	For Use with	Mfr. No.	Cat. No.	Each
Bottle adapter Fischer	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV Titrators	23787	**01-912-521**	38.00
Bottle adapter Merck	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV Titrators	23774	**01-912-520**	39.00
EasyDirect instrument license	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV Titrators	30065449	**01-912-547**	475.00
EasyPlus™ burette (10mL)	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV Titrators	30043900	**01-912-531**	200.00
EasyPlus burette (50mL)	Easy pH, Easy Cl, Easy Ox and Easy Pro Titrators	30043902	**01-912-533**	200.00
EasyPump	Easy pH Titrator	30064218	**01-912-546**	290.00
USB-P25 strip printer	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV Titrators	11124301	**01-912-522**	695.25
Chloride Titration Standard	Easy Cl and Easy Pro Titrators	30065504	**01-912-562**	135.00
Power supply	EasyPlus titrator	51105798	**01-912-555**	48.00

Standard Delivery Components for METTLER TOLEDO™ EasyPlus™ Titraters

Available as standard delivery components for METTLER TOLEDO™ EasyPlus™ Titraters

Description	For Use with	Mfr. No.	Cat. No.	Each
Bottle head	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV titraters	30060023	**01-912-538**	14.00
Burette cover set	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV titraters	30057633	**01-912-535**	39.00
EasyPlus™ burette (20mL)	Easy pH, Easy Cl, Easy Ox and Easy Pro titraters	30043901	**01-912-532**	200.00
EasyPlus drying tube	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV titraters	30044701	**01-912-534**	11.00
EasyPlus titration head GT	Easy pH, Easy Cl, Easy Ox and Easy Pro titraters	30041102	**01-912-523**	115.00
EasyPlus titration head KF	Easy KF titrater	30041103	**01-912-524**	140.00
EasyPlus tubing set instrument	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV titraters	30065464	**01-912-548**	75.00
EasyPlus tubing set EasyPump	Easy KFV titrater	30065465	**01-912-549**	33.00
EasyStir GT	Easy pH, Easy Cl, Easy Ox and Easy Pro titraters	30065467	**01-912-551**	140.00
EasyStir KF	Easy KFV titrater	30065468	**01-912-552**	190.00
Insert set titration head GT	Easy pH, Easy Cl, Easy Ox and Easy Pro titraters	30057635	**01-912-536**	14.00
Insert set titration head KF	Easy KFV titrater	30057636	**01-912-537**	29.00
Valve	Easy pH, Easy Cl, Easy Ox, Easy Pro and Easy KFV titraters	30042860	**01-912-525**	195.00
Vessel set KF	Easy KFV titrater	30065471	**01-912-553**	225.00
Weighing boat and stopper set	Easy KFV titrater	30065466	**01-912-550**	39.00

METTLER TOLEDO™ DO308 Karl Fischer™ Drying Oven

Allows easy and accurate water determination of solid or viscous samples

Ideal accessory for METTLER TOLEDO volumetric or coulometric Karl Fischer titrators.

Easy and fast manual handling

- Easy handling for left- and right-handed operators
- Sample exchange and sample transport into the heated zone of the oven is provided for by the simple transport system with a magnetic guide rod attached to the glass sample boat
- Equilibrium conditions are quickly reached
- Cold and hot zone can be purged separately with dry carrier gas using a stopcock
- Ambient moisture introduced during sample exchange or addition via the sleeve opening is quickly carried away; stable drift is reached within a short period of time

Enhanced operational safety

- No need to remove transfer tube from titration cell after switching off the oven; just open the stopcock to avoid contamination of the oven due to underpressure
- Different temperature ranges can be preprogrammed in one cycle
- Safety is further improved by automatic shutdown after the analysis is completed

INCLUDES: **01-911-241**

All necessary parts including the drying unit with gas flow measurement. If purging with dry air is desired, an optional air pump is available.

Description	Mfr. No.	Cat. No.	Each
DO308 Drying Oven Accessory	51371200	**01-911-241**	6624.00

METTLER TOLEDO™ Rondolino Nine-Place Sample Changer

Carousel-type titration stand to automize titrations with METTLER TOLEDO general titrators

Can be loaded with up to nine sample beakers and one conditioning beaker in a unique position.

01-911-239

Plug it in and off you go

- Installation and operation could not be easier: simply connect it to the titrator and off you go
- No need to configure anything, no complicated settings, no time-wasting
- You can also select one of eight different conditioning and rinsing programs with a clearly marked rotating switch on the upper side of the instrument

Automation with a small footprint

- Requires less space than the typical sample changer — an area of 25 × 25cm is sufficient
- Handles series of up to nine samples
- Processes single samples more rapidly because beaker returned to the rack; after titration, electrodes are placed back carefully into conditioning beaker
- Reproducibility of results is improved because the measurement process is repeated exactly each time
- Cleans electrode quickly by dipping into conditioning beaker
- Suitable for most applications with a minimal carryover

Description	Mfr. No.	Cat. No.	Each
Rondolino Accessory	51108500	**01-911-239**	6396.00

METTLER TOLEDO™ EasyPlus™ Titration Sensors

Specially developed for use with EasyPlus titrators

01-912-527

- Used for routine acid/base application in aqueous media and non-aqueous solutions
- Delivers quality and reliable results
- Made of glass

pH aqueous Sensor

- Ideal for acid/base titrations in aqueous media
- Determines acidity in juice, milk and wine
- Simultaneously measures m- and p-value in water

pH non-aqueous Sensor

- Used in acid/base titrations in non-aqueous media such as free fatty acid content of edible oils

Specifications	
Diaphragm	Ceramic
Connection	BNC fixed cable
Reference System	Conductor
Shaft Material	Glass
Temperature Range	0° to 60°C

Description	pH Range	Reference Electrolyte	Mfr. No.	Cat. No.	Each
Non-aqueous sensor	0-12	LiCl, 1 mol/L in ethanol	30043104	**01-912-527**	115.00
Aqueous sensor	0-14	3mol/L KCl standard	30043103	**01-912-526**	115.00

METTLER TOLEDO™ Titration Sensor Interchangeable Burettes and Replacement Parts

Choice of three different volumes: 5, 10 and 20mL

- Allow rapid titrant change
- PTFE pistons with triple lip seal prevent leakage
- Complete Buret (01-911-102) includes: Glass cylinder with serial number, stopcock with PTFE valve disc, PTFE piston and centering ring. Optional ceramic valve discs available for use with crystallizing titrants.

COMPLIANCE: ISO 8655-3

Description	Mfr. No.	Cat. No.	Each
20mL Buret, Complete	51107502	**01-911-102**	926.00
Replacement Parts for 5mL titration sensor interchangeable burettes			
Glass Cylinder	51107100	**01-911-103**	295.00
Centering Ring	51107519	**01-911-108**	19.00
Piston	51107115	**01-911-111**	58.00
Replacement Parts for 10mL titration sensor interchangeable burettes			
Glass Cylinder	51107101	**01-911-104**	295.00
Centering Ring	51107520	**01-911-109**	19.00
Replacement Parts for 20mL titration sensor interchangeable burettes			
Glass Cylinder	51107102	**01-911-105**	295.00
Piston	51107117	**01-911-113**	58.00
Replacement Parts for 5, 10, 20mL titration sensor interchangeable burettes			
Stopcock, with PTFE disc	51107537	**01-911-106**	165.00
Stopcock, with ceramic disc	51107525	**01-911-107**	165.00
Siphon (anti-diffusion) tips	23240	**01-910-718**	116.00

METTLER TOLEDO™ EasyPlus™ Chloride, Redox mV and Redox Ipol and Karl Fischer Sensors

Specially developed for use with EasyPlus Titrators

- Used for chloride precipitation, redox titrations/voltammetric/amperometric titrations
- Delivers quality and reliable results
- Made of glass

Chloride Sensor

- Silver ring sensor for chloride titrations (especially for food and water)
- Also used in silver content titrations

Specifications	
Connection	BNC fixed cable
Detection Range	0 to ±2000mV
Shaft Material	Glass

01-912-529

Redox mV Sensor

- Platinum ring sensor for redox titrations (especially for food, electroplating or electronic industries)
- Also used in applications like peroxide value or reducing sugar content

Redox Ipol and Karl Fischer Sensor

- Simple, durable and zero-maintenance sensor primarily for Karl Fischer and redox titrations
- For applications like important food ingredients such as Vitamin C or SO_2 in wine

Description	Diaphragm	Sensor Element	Reference Electrolyte	Reference System	Temperature Range	Mfr. No.	Cat. No.	Each
Redox Ipol and Karl Fischer Sensor	----	Double platinum pin	----	----	0° to 100°C	30043105	**01-912-528**	150.00
Redox mV Sensor	----	Platinum plate	3 mol/L KCl sat.	Conductor	0° to 60°C	30043106	**01-912-529**	130.00
Chloride Sensor	Ceramic	Silver ring	1 mol/L KNO_3	Conductor	0° to 60°C	30043107	**01-912-530**	125.00

THINK GREEN

Fisher Scientific Think Green Program

Fisher Scientific takes pride in achieving sustainability initiatives. Visit **www.fishersci.com/thinkgreen** for more sustainability information.

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Prices subject to change.

Tongs

Fisherbrand® Beaker Tongs with Fiberglas™-Covered Jaws

Handle beakers from 100 to 1500mL

- Stainless steel

ORDERING INFORMATION:
Length: 13" (33cm)

02-620

Cat. No.	Each
02-620	63.94

Fisherbrand® Economical Crucible Tongs

Plated steel resists rust

- Long neck
- Serrated tips

ORDERING INFORMATION:
Length: 9" (23cm)

15-200

Cat. No.	Each	Case of 12
15-200	19.50	194.87

Fisherbrand® Jumbo Crucible Tongs

For grasping crucibles deep in furnace

- Fabricated with integral forefinger and thumb openings
- Handle extends into palm
- Stainless steel

15-207

ORDERING INFORMATION: Length: 18" (46cm)

COMPLIANCE: Meet OSHA standards

Cat. No.	Each
15-207	127.35

Fisherbrand® Stainless-Steel Crucible Tongs

Well-balanced, strong, accurately aligned

- Precision instrument joint ordinarily found only on high-quality surgical instruments
- Carefully tapered, serrated tips meet precisely when closed
- Withstand high temperatures
- Won't rust

15-186

ORDERING INFORMATION:
Length: 9" (23cm)

Cat. No.	Each	Case of 12
15-186	52.06	523.61

ON THE WEB...

Looking for more Tongs?

Visit www.fishersci.com and search for Tongs

Bel-Art™ Scienceware™ Hot-Hand™ Protector Glove/Mitt

Mitt protects hands when handling extremely hot or cold objects, including dry ice

- Use for handling hot and cold objects from -57°C (-70°F) to 260°C (500°F)
- Soft and compliant silicone rubber naturally conforms to hand and object
- Gripping surfaces studded with small concave nubs for positive grip and additional protection against temperature extremes
- Easier and faster to use than glove or tongs for many applications
- Tab with hole for hanging hand protector near work station
- One size fits all hands, left or right
- 10 × 19cm (3.875 × 7.5")

11-394-300

Color	Mfr. No.	Cat. No.	Each	Case of 24
Red	F38000-0000	11-394-300	33.55	673.50

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Tools

Fisherbrand® Tool Kit

High-quality, precision-made tools

- 13 tools organized in heavy blue vinyl case with clear, heavy-duty vinyl compartments
- Tool kit rolls and ties shut for compact storage
- Can be hung on wall with its three metal grommets
- Tool handles are cushioned in heavy rubber

Description	Cat. No.	Each
Tool Kit	**15-226**	489.83

ORDERING INFORMATION:
For replacement tools, contact your Fisher Scientific Customer Service Representative.

15-226

INCLUDES:
Six screwdrivers (Jeweler's, two 4", 6", Offset, Phillips 3");
Three pliers (7" utility, 6" slip-joint, 6" long-nose); Adjustable wrench;
Set of 8 hex keys; Contact burnishing tool; Penlight with pocket clip and 2 AA batteries

Excelta™ Precision Tweezers With Straight Strong Medium Tips

Strong tips for long life

17-456-017

Precision	Tip Style	Length	Material	Mfr. No.	Cat. No.	Each
Design: 00						
General Precision	Medium tips w/straight strong points	4.5" (11.4cm)	Antimagnetic stainless-steel	00-SA-SE	**17-456-019**	7.92
Fine Precision	Medium tips w/straight strong points	4.5" (11.4cm)	Antimagnetic stainless-steel	00-SA-PI	**17-456-018**	26.85
High Precision	Medium tips w/straight strong points	4.5" (11.4cm)	Antimagnetic stainless-steel	00-SA	**17-456-017**	54.30
Design: 0C						
General Precision	Straight precision tips w/fine points	3.5" (8.89cm)	Antimagnetic stainless-steel	0C-SA-SE	**17-456-022**	7.92
Fine Precision	Straight precision tips w/fine points	3.5" (8.89cm)	Antimagnetic stainless-steel	0C-SA-PI	**17-456-021**	26.85
High Precision	Straight precision tips w/fine points	3.5" (8.89cm)	Antimagnetic stainless-steel	0C-SA	**17-456-020**	49.75
Design: 00D						
General Precision	Straight strong tips w/serrated points	4.75" (12.1cm)	Antimagnetic stainless-steel	00D-SA-SE	**17-456-016**	7.72
Fine Precision	Straight strong tips w/serrated points	4.75" (12.1cm)	Antimagnetic stainless-steel	00D-SA-PI	**17-456-015**	33.20
High Precision	Straight strong tips w/serrated points	4.75" (12.1cm)	Antimagnetic stainless-steel	00D-SA	**17-456-014**	52.00

Excelta™ 7200 Series Soft-Wire Cutters

For cutting leads and wires

Induction-hardened carbon tool steel

- Available in semi-flush, maximum flush or optimum flush cut
- Edges hardened to RHC 63-65
- Dual leaf springs
- ESD safe cushion grips
- Overall length: 5" (12.7cm)
- Short handles

17-456-045

Cut Type	Cutting Capacity	Head Style	Mfr. No.	Cat. No.	Each
Maximum flush	0.005 to 0.036 in.	Medium tapered	7244E	**17-456-050**	110.90
Maximum flush	0.005 to 0.04 in.	Medium round	7241E	**17-456-047**	111.20
Maximum flush	0.005 to 0.036 in.	Medium tapered/relieved	7247E	**17-467-456**	93.40
Optimum flush	0.005 to 0.036 in.	Medium tapered/relieved	7248E	**17-456-045**	134.00
Optimum flush	0.003 to 0.032 in.	Medium round	7242E	**17-456-044**	123.60
Optimum flush	0.001 to 0.02 in.	Medium transverse	7274E	**17-467-463**	158.90
Optimum flush	0.002 to 0.028 in.	Medium tapered	7245E	**17-467-454**	108.20
Semi flush	0.008 to 0.036 in.	Medium tapered	7243E	**17-456-049**	106.40
Semi flush	0.008 to 0.042 in.	Medium round	7240E	**17-456-046**	106.20
Semi flush	0.008 to 0.036 in.	Medium tapered/relieved	7246E	**17-467-455**	93.00

Transfection

Reagents and Kits

Thermo Scientific™ TurboFect™ Transfection Reagent

A novel formulation for efficient *in vitro* delivery of plasmid DNA to cultured cells with low cytotoxicity

FERR0533

TurboFect Transfection Reagent is a sterile solution of a proprietary cationic polymer. The polymer forms compact, stable, positively charged complexes with DNA. These complexes protect DNA from degradation and facilitate gene delivery into eukaryotic cells. TurboFect Reagent is ideal for transfection of a variety of cells, including primary and difficult-to-transfect cells. Transfection can be performed in the presence or absence of serum. TurboFect Reagent demonstrates superior transfection efficiency and minimal toxicity when compared to other lipid-based or polymer-based transfection reagents.

- High transfection efficiency of a wide variety of cell types
- No optimization required for most cell lines
- Excellent transfection efficiency in the presence or absence of serum
- Minimal cytotoxicity
- Ready-to-use – no need to reconstitute, dilute or manipulate

APPLICATIONS:
Stable and transient transfection or co-transfection of DNA or RNA;
Experiments with adherent or suspension cells, differentiated or undifferentiated cells;
Gene involving GFP or luciferase reporters

Item Name	Quantity	Sufficient For	Formulation	Cat. No.	Each
TurboFect Transfection Reagent	5 × 1mL	2500 transfections (25 standard 96-well plates)	Proprietary cationic polymer in water	**FERR0532**	935.24
TurboFect Transfection Reagent	200µL	100 transfections (1 standard 96-well plate)	Proprietary cationic polymer in water	**FERR0533**	58.71
TurboFect Transfection Reagent	5 × 200µL	500 transfections (5 standard 96-well plates)	Proprietary cationic polymer in water	**FERR0534**	350.20

Mirus Bio™ TransIT-X2™ Dynamic Delivery System

Innovative polymeric system for efficient delivery of plasmid DNA and siRNA/miRNA

- Provides exceptional broad spectrum transfection
- Facilitates cutting edge delivery of plasmid DNA, siRNA and miRNA
- Functions on a novel, non-liposomal polymeric technology

MIR6003

Quantity	Mfr. No.	Cat. No.	Each
1 × 0.3mL	MIR6003	**MIR6003**	136.85
1 × 0.75mL	MIR6004	**MIR6004**	343.85
1 × 1.5mL	MIR6000	**MIR6000**	573.85

Mirus Bio™ TransIT™-LT1 Transfection Reagent

A broad spectrum, low toxicity (LT), DNA transfection reagent

2300 Series

- Broad spectrum DNA delivery — utilize one transfection reagent and protocol for a variety of cells
- Low cellular toxicity — maintain cell density and reduce experimental biases
- High efficiency delivery — achieve expression in a large population of cells for experimental success
- Deliver single or multiple plasmids — suitable for many applications such as gene expression, shRNA expression viral production and promoter analysis

STORAGE: Store for up to one year at 4°C.

Quantity	Mfr. No.	Cat. No.	Each
0.4mL	MIR 2304	**MIR 2304**	209.30
1mL	MIR 2300	**MIR 2300**	331.20
5 × 1mL	MIR 2305	**MIR 2305**	1442.10
10 × 1mL	MIR 2306	**MIR 2306**	2666.85

Mirus Bio™ TransIT™-293 Transfection Reagent

Designed for high-efficiency, low-toxicity DNA transfection in HEK293 cells

2700 Series

- Low cellular toxicity maintains cell density and reduces experimental bias
- Allows 75 to 85% transfection efficiency in HEK 293 cell lines
- Delivers single or multiple plasmid for specialized applications such as virus production
- Supplied as a ready-to-use solution

STORAGE: Store for up to one year at 4°C (do not freeze).

Quantity	Mfr. No.	Cat. No.	Each
0.4mL	MIR 2704	**MIR 2704**	255.00
1mL	MIR 2700	**MIR 2700**	376.50
5 × 1mL	MIR 2705	**MIR 2705**	1641.00
10 × 1mL	MIR 2706	**MIR 2706**	3040.00

Mirus Bio™ TransIT™-COS Transfection Kit

Designed for high transfection efficiency and low toxicity in COS-7 and COS-1 cells

- Each kit contains base reagent and booster reagent to optimize transfection performance in COS cells
- Low cellular toxicity maintains cell density and reduces experimental biases
- Allows 90 to 95% transfection efficiency in COS cells

STORAGE: Store for one year at -20°C.

INCLUDES:
TransIT-COS reagent and COS Boss reagent, both as ready-to-use solutions.

Quantity	Mfr No.	Cat. No.	Each
1mL	MIR 2190	**MIR 2190**	268.50

Mirus Bio™ TransIT™-CHO Transfection Kit

Developed for high transfection efficiency and cell viability in CHO cell types

- Each kit contains a base reagent and a booster reagent to optimize transfection performance in CHO cells
- Low cellular toxicity maintains cell density and reduces experimental bias
- Allows 50 to 60% transfection efficiency in CHO-K1 cells

STORAGE: Store for up to one year at -20°C.

INCLUDES:
TransIT-CHO reagent and CHO Mojo reagent, both supplied as ready-to-use solutions.

Quantity	Mfr. No.	Cat. No.	Each
1mL	MIR 2170	**MIR 2170**	413.50
5 × 1mL	MIR 2175	**MIR 2175**	1771.00

Mirus Bio™ TransIT™-HeLaMONSTER™ Transfection Kit

High-efficiency, low-toxicity DNA transfection kit optimized for HeLa cells

- Each kit contains a base reagent and a booster reagent to optimize transfection performance in HeLa cells
- Low cellular toxicity maintains cell density and reduces experimental bias
- Allows up to 50-60% transfection efficiency in HeLa cells
- Delivers single or multiple plasmids for applications including gene expression and promoter analysis

STORAGE: Store both components for one year at -20°C.

INCLUDES:
TransIT-HeLa reagent and MONSTER Reagent, each supplied as a ready-to-use solution.

Quantity	Mfr. No.	Cat. No.	Each
1mL	MIR2900	**MIR 2900**	415.50
5 × 1mL	MIR2905	**MIR 2905**	1758.00

Systems

Mirus™ Bio TransIT SciQUEST™ siRNA Transfection Reagent

Ideal for siRNA-mediated gene-silencing studies

- Broad Spectrum siRNA Delivery: Utilize one transfection reagent and protocol for a wide variety of cells
- Low Cellular Toxicity: Maintain cell density and reduce experimental biases
- Reproducible Results: Obtain consistent, targeted gene knockdowns from day to day
- High Knockdown Efficiency: Achieve optimal gene silencing in a large percentage of cells to ensure experimental success

STORAGE: Store for up to one year at 4°C (do not freeze).

Quantity	Mfr. No.	Cat. No.	Each
10 × 1mL	MIR 2116	**MIR 2116**	3731.75

Mirus Bio™ 3D Transfection System

High efficiency broad spectrum DNA transfection of cells in 3D culture for biologically relevant data

Ideal for the transfection of cells in 3D cell culture, the new 3D Transfection system combines the technologies of Reinnervate's alvetex™ 3D Cell Culture Plates and Mirus Bio's TransIT™-3D Transfection Reagent, enabling scientists to create models that more accurately mimic the tissue environment and gain a much deeper insight into the complexities of cell function and behavior.

- High Efficiency DNA Delivery: Achieve high expression in a wide range of cell types grown in 3D culture
- Easy-to-Use: User friendly protocol that requires minimal optimization
- Flexibility: Compatible with solid matrix scaffold and hydrogel 3D culture formats
- Animal Origin Free: Allows a wide range of applications

STORAGE:
Store TransIT-3D Reagent tightly capped at –20°C. Before each use, warm to room temperature and vortex gently. Store alvetex™ plates at room temperature.

REQUIRES:
(Not supplied)

- Cultured cells
- Appropriate scaffold or hydrogel for 3D cell culture
- Appropriate cell culture medium
- Purified plasmid DNA
- Serum-free medium (e.g. Opti-MEM™ I Reduced-Serum Medium)
- Sterile tube for transfection complex preparation
- Micropipets
- Reporter assay as required

Qty.	Mfr. No.	Cat. No.	Each
10 × 1mL	MIR 5806	**MIR5806**	2907.20
0.4mL, 2 × 12-well plates	MIR 5820	**MIR5820**	358.80
1mL	MIR5800	**MIR5800**	367.50
0.4mL	MIR5804	**MIR5804**	240.50
5 × 1mL	MIR5805	**MIR5805**	1570.90

Transilluminators

FisherBiotech™ Ultraviolet Transilluminators

Variable- or fixed-intensity transilluminators with high-intensity 312nm tubes

FBTIV614AQ

- Six 15w tubes produce a total UV intensity of 8000µw/cm² to detect nanogram amounts of DNA
- At 312nm, virtually eliminate DNA degradation caused by 254nm UV light
- Three sizes of filter areas
- Unique, removable diffusing screens on all models eliminate confusing UV striations for best photographic results
- Cooling fan prevents heat buildup

Variable-intensity models

- Continuously adjustable from 100 to 20% intensity
- Hinged UV-blocking safety cover protects user from hazardous UV radiation
- Optional removable UV-transmitting Plexiglas™ Filter Protector (Mfr. No. FB-TI-100CQ) shields filter glass from scratches or breakage

Economical, fixed-intensity models

- Timers allow preset of UV exposure time for periods of up to 60 minutes

Type	Filter Area	Cat. No.	Each
Variable Intensity	6 × 14" (15.2 × 35.6cm)	**FBTIV614AQ**	2130.00
	8 × 8" (20.3 × 20.3cm)	**FBTIV88AQ**	2790.00
	8 × 16" (20 × 40cm)	**FBTIV816AQ**	2640.00
Fixed Intensity	8 × 8" (20 × 20cm)	**FBTI88AQ**	1980.00

Hoefer™ MacroVue Transilluminator

03-500-309

- Long-life UV transmitting filter delivers thousands of hours of use without filter solarization
- UV blocking safety cover eliminates 100% of harmful UV radiation and is adjustable to scratch-resistant, powder-painted cabinets for durability

INCLUDES: Five 8-watt 302nm UV tubes, two 8-watt cool white tubes and hinged clear UV-blocking safety cover.

Model	Filter Area	Mfr. No.	Cat. No.	Each
UV and Visible Light				
MacroVue UVis-20	Two 20 × 20cm	UVIS-20-115V	**03-500-309**	2650.00

UVP™ Benchtop UV Transilluminators

New design features upgraded components for increased efficiency, performance and functionality

Compact, eight-watt models available with either single or multiple UV wavelengths and choice of filter sizes. Lightweight, portable.

UVP95-0455

- High UV output and intensity with no light flicker
- High/Medium/Low variable intensity settings (select models)
- Universal power supply with fast lamp startup

INCLUDES: UVG 5000 hour long-life filter and hinged UV blocking cover with adjustable height

CERTIFICATIONS: 100-115V models are CSA approved.

Model	Filter Size	Electrical Reqts.	Cat. No.	Each
Single UV (302nm UV)				
M-15	15 × 15cm	100-120V	**UV95-0455-01**	1453.00
Single UV, Variable Intensity (302nm UV)				
M-15V	15 × 15cm	100-115V	**UV95-0456-01**	1500.00
2UV (302/365nm UV)				
LM-20	20 × 20cm	100-115V	**UV95-0449-01**	2120.00
LM-26	21 × 26cm	100-115V	**UV95-0459-01**	2490.00
3UV (254/302/365nm UV)				
LMS-20	20 × 20cm	100-115V	**UV95-0417-01**	2810.00

NOTE: For complete menu of Transilluminator options, see www.fishersci.com

Fotodyne™ FOTO/UV 15, 21 and 26 Transilluminators

For excitation of DNA gels containing UV-sensitive stains/dyes such as ethidium bromide (EtBR) and EtBR-substitutes

Two sizes save valuable bench space and are easy to maneuver while offering uniform illumination over entire filter glass area.

Analytical Intensity

- Full or 1/3 intensity options
- Provides nanogram level sensitivity at 312nm for DNA analytical work

F3-3045

Common Features

- UviClear™ UV Transparent Glass Protector — allows user to place gels directly on the UviClear, cut out bands without damaging the transilluminator filter glass
- Matte-black top reduces ambient light reflection
- Standard (four) 8w 312nm bulbs
- Cooling fan

INCLUDES: All models include UV-blocking eyeglasses.

Model	Viewing Area	Mfr. No.	Cat. No.	Each
FOTO/UV 21	21 × 21cm	3-3121	**F3-3121**	1249.00
FOTO/UV 26	21 × 26cm	3-3045	**F3-3045**	1360.00

Trays and Troughs

Fiberglass/Glass

Lab Armor™ StayTemp™ Equipment Tray

For maintaining cold or heat with high efficiency in refrigerators, incubators and ovens

10-876-027 to -029

StayTemp Equipment Trays are an upgrade that keeps samples and reagents in your refrigerator, incubator and laboratory ovens at temperature despite normal hourly fluctuations in air temperature.

- Stainless-steel construction
- Keeps samples organized, protecting sample from defrost cycles and constant door opening and closing
- Eliminates the need for racks
- Can be handwashed, autoclaved or towel-dried
- For any size and shape vessel including non-water-tight vessels
- Available in three sizes

NOTES: Does not include lid.

Description	Weight	Capacity	Mfr. No.	Cat. No.	Each
w/1.25L beads	2.72kg	1L	39956-050	**10-876-027**	155.30
w/2L beads	4.53kg	2L	39956-001	**10-876-028**	254.00
w/4L beads	10.8kg	4L	39956-003	**10-876-029**	409.00

MFG Tray Company™ Safety Tray for Reagents

Lightweight tray resists acids, mild alkalis and most solvents

- Rounded edge contains spills
- Won't corrode or warp
- Strong enough to carry several bottles
- Excellent dimensional stability
- Clean with steam or heat sterilization

15-239-2

ORDERING INFORMATION:
Outside dimensions: 30L × 20W × 2"H (76 × 51 × 5.1cm)

COMPLIANCE:
Meets OSHA requirements.

Mfr. No.	Cat. No.	Each
6081031537	**15-239-2**	148.70

Corning™ Pyrex™ Brand Glass Drying Trays

Designed for use as drying, staining or developing trays

- Can be used with paper or gel electrophoresis or paper chromatography
- Autoclavable

ALERTS:
Do not place over direct heat; for oven use only.

Clockwise from top: 15-242C, 15-242D, 15-242B, 15-242A

Approx. Capacity	Outside L × W × H	Mfr. No.	Cat. No.	Case of 4
1750mL	10.75 × 7.125 × 2" (27 × 18 × 5cm)	3175 7	**15-242A**	71.88
2000mL	7.875 × 7.875 × 2.125" (20 × 20 × 5.5cm)	3175 8	**15-242B**	71.70
3500mL	13.75 × 9.75 × 2.375" (35 × 25 × 6cm)	3175 10	**15-242D**	109.76

Pyrex™ Brand Glass Sterilizing Tray

Useful for paper chromatography

- With heavy walls
- Withstands hot air or steam sterilization

15-241C

ORDERING INFORMATION:
Exterior: 18L × 12"W (46 × 30cm)
Interior depth: $2^{7}/_{8}$" (7.3cm)

NOTES:
Do not place over direct heat; for oven use only

Mfr. No.	Cat. No.	Each	Case of 4
3170 12	**15-241C**	339.00	922.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Polymeric

Fisherbrand® Dispensing Trays

Dispensing valve at one corner, close to bottom

- Durable 0.25" thick (6.4mm) high-density polyethylene tray
- Welded corners and bottom

15-236-3F

Inside L × W × D	Cat. No.	Each
12 × 16 × 3" (30 × 41 × 7.6cm)	**15-236-3A**	112.10
12 × 16 × 8" (30 × 41 × 20cm)	**15-236-3G**	129.60
16 × 16 × 8" (41 × 41 × 20cm)	**15-236-3H**	150.60
16 × 20 × 4" (41 × 51 × 10cm)	**15-236-3B**	117.40
18 × 18 × 6" (46 × 46 × 15cm)	**15-236-3E**	157.70
18 × 22 × 4" (46 × 56 × 10cm)	**15-236-3C**	130.00
18 × 24 × 6" (46 × 61 × 15cm)	**15-236-3F**	161.40
22 × 26 × 4" (56 × 66 × 10cm)	**15-236-3D**	142.40

Fisherbrand® Polymeric Trays

Durable trays made of 0.37" thick (4.8mm) autoclavable polypropylene or 0.25" thick (6.4mm) high-density polyethylene

- With welded corners and bottom
- Won't rust

15-236-1E

Inside L × W × D	Cat. No.	Each
Polypropylene		
10 × 15 × 3" (25 × 38 × 7.6cm)	**15-236-1A**	117.60
12 × 16 × 8" (30 × 41 × 20cm)	**15-236-1F**	149.90
15 × 20 × 3" (38 × 51 × 7.6cm)	**15-236-1B**	152.70
18 × 18 × 4" (46 × 46 × 10cm)	**15-236-1C**	178.70
20 × 20 × 6" (51 × 51 × 15cm)	**15-236-1E**	220.00
22 × 26 × 4" (56 × 66 × 10cm)	**15-236-1D**	208.50
High-density Polyethylene		
12 × 16 × 8" (30 × 41 × 20cm)	**15-236-2D**	96.30
16 × 16 × 8" (41 × 41 × 20cm)	**15-236-2E**	122.10
18 × 18 × 6" (46 × 46 × 15cm)	**15-236-2B**	128.40
18 × 24 × 6" (46 × 61 × 15cm)	**15-236-2C**	138.00
22 × 26 × 4" (56 × 66 × 10cm)	**15-236-2A**	112.40

Thermo Scientific™ Nalgene™ Autoclavable Pans; Polypropylene

Can be used repeatedly for autoclaving instruments and labware

- Pans are tapered for nesting to save space
- Rolled edges provide extra stiffness for carrying heavy contents
- Heavy wall construction will withstand rugged use and repeated autoclaving

13-361 Series

13-359-20A, -20B (left to right)

Capacity	Outside L × W × H	Mfr. No.	Cat. No.	Each	Case of 6
1.7 qt. (1.6L)	10.25 × 6.25 × 2.5" (26 × 16 × 6.4cm)	6902-1000	**13-361-20**	40.15	162.70
2.7 qt. (2.6L)	10.25 × 6.25 × 4.13" (26 × 16 × 10cm)	6902-2000	**13-361-15**	51.00	206.50
4.2 qt. (4.0L)	12.75 × 10.25 × 2.75" (32 × 26 × 7cm)	6902-3000	**13-361-10**	69.00	279.50
6.2 qt. (5.9L)	12.75 × 10.13 × 4.25" (32 × 26 × 11cm)	6902-5000	**13-361-25**	74.80	303.00
10 qt. (9.5L)	14 1/4 × 12 1/4 × 5 5/8" (361 × 311 × 143mm)	6900-0010	**13-359-20A**	59.50	243.00
15 qt. (14.2L)	21 3/8 × 17 1/8 × 5 1/8" (543 × 435 × 130mm)	6900-0020	**13-359-20B**	95.90	392.00

Thermo Scientific™ Nalgene™ Pans; HDPE

Use for soaking labware or as ice baths

- Rugged, durable pans tapered for nesting
- Without covers

13-359-25

Exterior L × W × H	Mfr. No.	Cat. No.	Each	Case of 6
14.125 × 12.125 × 5.625" (36 × 31 × 14cm)	7120-0010	**13-359-25**	49.35	192.40
21.375 × 17.125 × 5.125" (54 × 43 × 13cm)	7120-0020	**13-359-26**	79.90	311.50

Bel-Art™ Scienceware™ Polypropylene Sterilizing Trays with Cover

Instrument trays for sterilizing

- Smooth, rounded corners for easy cleaning and sterilizing
- Outward tapered walls allow nesting for compact storage
- Covers are inset into tray for stable stacking of loaded trays
- Steam autoclavable at 121°C (250°F)

15-249 Series

Inside L × W × D	Mfr. No.	Cat. No.	Each
7 × 4 × 2.125" (18 × 10 × 5.4cm)	16188-0000	**15-249A**	29.55
11 × 6 × 3.25" (29 × 15 × 8cm)	16189-0000	**15-249B**	35.90
11 × 6 × 5" (28 × 15 × 13cm)	16191-0000	**15-249C**	48.20

MFG Tray Company™ Chemical-Resistant Multipurpose Trays and Pans

Ideal for soaking, cleaning, autoclaving, storing or carrying lab products and containing spills

- Reinforced white thermoset polyester composite construction
- Resistant to most detergents, mild acid and alkaline solutions, corrosive salts and many reagents
- Withstand temperatures from -51° to +121°C (-60° to +250°F) continuous exposure or 149°C (300°F) intermittent
- High load-bearing capacity
- Excellent dimensional stability; easily steam-cleaned

15-239 Series Chemical-Resistant Multipurpose Trays and Pans

ORDERING INFORMATION: Available in 1" deep (2.5cm) trays, shallow pans from $1^1/_4$ to $2^3/_4$" deep (3 to 7cm) and ventilated stacking pans from $2^3/_4$ to $4^1/_8$" deep (7 to 10.5cm).

Outside L × W × H	Mfr. No.	Cat. No.	Each
Trays			
13.25 × 10.625 × 1" (34 × 27 × 2.5cm)	3034031537	**15-239-4**	35.20
18 × 14 × 1" (46 × 35.5 × 2.5cm)	3184031537	**15-239-7**	32.90
20.375 × 15.125 × 1" (52 × 38.5 × 2.5cm)	3044031537	**15-239-5**	39.75
21.875 × 16 × 1" (55.5 × 41 × 2.5cm)	3054031537	**15-239-6**	40.85
Shallow Pans			
19.5 × 19.5 × 1.25" (49.5 × 49.5 × 3.2cm)	6290085269	**15-239-15**	47.40
25.25 × 19.25 × 1.125" (64 × 49 × 2.9cm)	6062031537	**15-239-11**	58.40
26 × 26 × 1.25" (66 × 66 × 3.2cm)	6011031537	**15-239-8**	91.10
28 × 28 × 1.5" (71 × 71 × 3.8cm)	6120031537	**15-239-13**	113.00
30 × 30 × 1.25" (76 × 76 × 3.2cm)	6042031537	**15-239-10**	126.60
31 × 25 × 2.75" (79 × 63.5 × 7cm)	6240085269	**15-239-14**	66.10
36.5 × 17.5 × 1.625" (93 × 44.5 × 4.1cm)	6100031537	**15-239-12**	84.90
36.5 × 24.75 × 1.5" (93 × 63 × 3.8cm)	6031031537	**15-239-9**	118.30
Ventilated Stacking Pans			
24 × 12 × 2.75" (61 × 30.5 × 7cm)	6340085269	**15-239-16**	31.40
30.375 × 15.875 × 2.875" (77 × 40 × 7.3cm)	8052085269	**15-239-17**	57.40
30.375 × 15.875 × 4.125" (77 × 40 × 10.5cm)	8053085269	**15-239-18**	58.00

Thermo Scientific™ Nalgene™ Lab Carrier

High-density polyethylene carrier includes two foam inserts with six holes to keep bottles separated

- Remove sleeves to accommodate up to six bottles with 2.375" (6cm), 3.5" (9cm) or 4.25" (10.8cm) diameters
- Sturdy, high-density polyethylene construction will hold six full 1000mL glass media bottles
- Carriers stack when empty

15-251-1

Exterior L × W × H	Mfr. No.	Cat. No.	Each	Case of 2
15 × 14 × 10.5" (38 × 36 × 27cm)	7131-0001	**15-251-1**	160.10	208.00

Thermo Scientific™ Nalgene™ Utility Carrier

Made of polyethylene

- Ideal for carrying glassware, samples and tools
- Resilient, with molded-in center divider and handle

15-251

ORDERING INFORMATION:
Exterior L × W × H:
14.875 × 9.5 × 4.5"
(38 × 24 × 11cm).

COMPLIANCE:
The polypropylene carrier meets OSHA Standard 29CFR1910.1030 for use as protection against bloodborne pathogens.

Material	Mfr. No.	Cat. No.	Each	Case of 6
Polyethylene	7130-0010	**15-251**	47.60	183.10

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Before You Buy **Centrifuge Tubes**

eppendorf

Choose the Right Tube for Your Sample

- To protect your results, confirm the absence of additives that could leach from tubes and negatively affect your samples (see: Can J Physiol Pharmacol. 2012 Jun;90(6):697-703). Eppendorf tubes and plates are manufactured without the use of slip agents, plasticizers and biocides.
- Confirm centrifugation stability to ensure samples will not be lost to tube breakage.
- When sample recovery is important, choose low binding tubes (e.g., Eppendorf DNA LoBind or Protein LoBind tubes and plates).
- For long term storage — even at -80°C — choose a tube with precise lid sealing to prevent sample loss due to evaporation.
- A hinged, safe-locking lid will prevent accidental lid opening during incubation.
- Choose an Eppendorf Tube™ 5.0mL instead of a 15mL conical tube to save storage space and reduce waste. The 5mL system also reduces the contamination-risk when used in cell culture.
- Confirm independent laboratory testing of quality claims and purity levels.

Features To Look For

Eppendorf Tubes combine all the experience of 50 years of constant improvement and development. The original Eppendorf Tubes give your sample outstanding stability during centrifugation, perfect sealing, and evaporation protection. Trust in the original Eppendorf Tube because your samples deserve the best treatment!

Eppendorf Tube™ 5.0mL system (NEW)

- Same performance as a 1.5mL tube — more ergonomic than a 15mL tube. Quality you come to expect from Eppendorf.
- Same diameter and bottom shape as a 15mL conical tube. Can be used in 15mL conical swing-bucket rotor adapters — no new purchase needed.
- Optional system components include high-speed rotors and adapters, tube rack and storage boxes, 5mL pipets and epT.I.P.S., thermoblocks for temperature control and mixing.

Tube	0.5mL Safe-Lock Tube	1.5mL Flex-Tube	1.5mL Safe-Lock Tube	2.0mL Safe-Lock Tube	Eppendorf Tube 5.0mL
Max. Volume	500mL	1,500mL	1,500mL	2,000mL	5,750mL
Bottom Shape	Conical	Conical	Conical	Conical	Conical
Lid Type	Hinged-lid prevents accidental lid opening	Lid for ergonomic opening/ closing	Hinged-lid prevents accidental lid opening	Hinged-lid prevents accidental lid opening	Hinged-lid for safe lid sealing
g-force rating	30,000 × g	30,000 × g	30,000 × g	25,000 × g	25,000 × g
Plastic Materials	Virgin Polypropylene	Virgin Polypropylene	Virgin Polypropylene	Virgin Polypropylene	Virgin Polypropylene
Purity Grades	Standard PCR Clean[1] Biopur[2]	Standard PCR Clean[1]	Standard PCR Clean[1] Biopur[2]	Standard PCR Clean[1] Biopur[2]	Standard PCR Clean[1] Biopur[2] Sterile[3]

[1] PCR clean: Batch-certified free from DNA, DNase, RNase, and PCR inhibitors.
[2] Biopur: Batch-certified sterile and free from DNA, DNase, RNase, PCR inhibitors, ATP and pyrogens/endotoxins. Individually packaged.
[3] Sterile: Batch-certified sterile and endotoxin free

Tubes

Centrifuge - Plastic

Fisherbrand® Higher-Speed Easy Reader™ Plastic Centrifuge Tubes

Withstand higher speeds than other Easy Reader tubes — up to 9,400 × g

06-443 Series

Key Features

- Made of durable, chemical-resistant, clear polypropylene
- With black graduations and white marking area
- With conical bottoms
- Black printed graduations are marked in 5mL increments from 5 to 50mL; a large white marking area makes labeling samples easy
- Tubes are sterilized by gamma radiation
- Nonpyrogenic

Two Cap Styles

- Both styles offer secure, leak-resistant seals
- Blue plug-seal closure features double-start thread design for an exceptionally tight seal
- Flat-top caps offer faster handling and allow you to label the top of the tube

ORDERING INFORMATION:
Available packed in foam racks or in bulk packs.

O.D. × L	Type	Closure	Packaging	Cat. No.	Case of 500
28 × 115mm	Sterile	Plug	25/Rack	**06-443-20**	276.50
28 × 115mm	Sterile	Plug	25/Sleeve	**06-443-21**	278.00
28 × 115mm	Sterile	Flat	25/Rack	**06-443-18**	274.50
28 × 115mm	Sterile	Flat	25/Sleeve	**06-443-19**	277.00

Fisherbrand® Easy Reader™ Plastic Centrifuge Tubes

Polypropylene or PET graduated tubes are easy to read

- Nonpyrogenic
- Conical bottoms
- Large labeling area
- Choice of closures
- Sterile and nonsterile styles
- 15mL tubes are graduated in 0.5mL subdivisions from 2 to 14.5mL
- 50mL tubes are graduated in 5mL increments from 5 to 50mL

- Made of durable, chemical resistant, clear polypropylene
- With black graduations and white marking area

ORDERING INFORMATION:
Available packed in foam racks or sleeves.

05-539-9

Capacity	O.D. × L	Max RCF	Type	Closure	Packaging Type	Cat. No.	Case of 500
Polypropylene							
15mL	17 × 119mm	6,000	Sterile	Plug	Rack	**05-539-5**	214.00
15mL	17 × 119mm	6,000	Sterile	Flat	Rack	**05-539-12**	205.50
15mL	17 × 119mm	6,000	Sterile	Plug	Sleeve	**05-539-4**	205.50
15mL	17 × 119mm	6,000	Sterile	Flat	Sleeve	**07-200-886**	205.00
50mL	28 × 115mm	9,400	Sterile	Plug	Rack	**05-539-6**	248.50
50mL	28 × 115mm	9,400	Sterile	Plug	Sleeve	**05-539-7**	250.50
50mL	28 × 115mm	9,400	Sterile	Flat	Rack	**05-539-8**	285.50
50mL	28 × 115mm	9,400	Sterile	Flat	Sleeve	**05-539-13**	250.25
50mL	28 × 115mm	9,400	Nonsterile	Plug	Sleeve	**05-539-9**	189.44
Polyethylene Teraphthalate							
15mL	17 × 119mm	1,800	Sterile	Plug	Rack	**05-539-1**	205.50
50mL	28 × 115mm	1,800	Sterile	Plug	Rack	**05-539-10**	301.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® 15mL Graduated Polystyrene Centrifuge Tubes

Excellent general-purpose tube

05-527-45

- With conical bottom
- Nonsterile polystyrene
- Features molded-in graduations in 0.1mL increments up to 1mL and in 0.5mL subdivisions between 1 and 15mL

O.D. × L	Capacity	Cat. No.	Case of 1000
17.5 × 119.5mm	15mL	**05-527-45**	213.00

Fisherbrand® 50mL Graduated Polypropylene Centrifuge Tube

Skirt extends beyond the bottom of the tube so it can stand without support

14-375-150

- Freestanding with conical bottom
- Made from durable polypropylene for excellent chemical resistance
- Features molded graduations in 2.5mL increments up to 10mL and 5mL increments from 10 to 50mL
- Sterile
- Supplied with blue plastic plug-seal caps

O.D. × L	Capacity	Cat. No.	Case of 500
29.5 × 113.8mm	50mL	**14-375-150**	381.92

Thermo Scientific™ Nunc™ EZFlip Centrifuge Tubes, Conical

Clarified polypropylene provides chemical resistance

Integrated leakproof cap prevents cross-contamination and lost closures.

12-565-800 Series

- Conical bottom, sterile
- Clarified polypropylene combines chemical resistance and high speed tolerances
- Leakproof and airtight
- Use 50mL tubes up to 9500 × g; 15mL tubes withstand forces up to 8500 × g
- White writing area and flat caps for sample identification
- Printed volume markings and graduations
- Standard dimensions, compatible with any fixed-angle or swing centrifuge rotor
- Tube's maximum RCF tested: 15mL tubes, 8500; 50mL tubes, 9500 when fully supported by conical rotor cavity or conical adapter

ORDERING INFORMATION:
Tubes are sterile and are supplied in a bulk pack (sleeve) or a rack.

O.D. × L (cap closed)	Packaging	Mfr. No.	Cat. No.	Case of 500
15mL				
17 × 121mm	50/Sleeve	362694	**12-565-801**	249.50
17 × 121mm	50/Rack	362695	**12-565-802**	269.00
50mL				
28 × 116mm	50/Sleeve	362696	**12-565-803**	345.00
28 × 116mm	50/Rack	362697	**12-565-804**	360.00

Corning™ CentriStar™ Centrifuge Tubes

Centrifuge tubes and caps feature advanced ergonomics and the highest quality materials

- Conical bottoms
- Clear virgin polypropylene (PP)
- Sterile, certified RNase-/DNase-free and nonpyrogenic
- CentriStar caps provide a revolutionary plug feature, wider knurls and roll-over edge design to improve grip; easy-on, easy-off thread design; and a flat top with matte finish for easy marking
- Large white marking spot and black printed graduations

05-538-510

Description	Mfr. No.	Cat. No.	Case of
15mL; Max. RCF: 12500 × g; Rack and cap included; 50 tubes/pack, 10 pack/case	430790	**05-538-59A**	500/267.98
15mL; Max. RCF: 12500 × g; Cap included; 25 tubes/pack, 20 pack/case	430791	**05-538-59B**	500/259.84
15mL; Max. RCF: 17000 × g; Cap included; No rack; 25 tubes/pack, 20 pack/case	430829	**05-538-60**	500/352.21
50mL; Max. RCF: 15500 × g; Cap and rack included; 25 tubes/pack, 12 pack/case	4558	**07-203-510**	300/229.91
50mL; Max. RCF: 17000 × g; Cap and rack included; 25 tubes/pack, 20 pack/case	430828	**05-526-B**	500/371.01

THINK GREEN

Fisher Scientific Think Green Program

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Corning™ Polyethylene Terephthalate (PET) Centrifuge Tubes

Conical bottom centrifuge tubes have traditional polyethylene plug seal caps and are packed 25 per rack

05-538-49

- Conical bottom
- Clear polyethylene tetraphthalate (PET)
- Sterile, certified RNase-/DNase-free and nonpyrogenic
- Wide neck with threaded top
- Max RCF: 3600 × g
- Graduated (5 to 50mL) at 2.5mL intervals
- 29.1mm O.D. (approx.)
- 115.5mm L (approx.)
- Disposable
- High-density polyethylene plug seal cap (approx. 35.2mm; orange)

ORDERING INFORMATION:
Rack included

Description	Mfr. No.	Cat. No.	Case of
15mL; Max. RCF: 3600 × g; Packaging: 50 Tubes/Pack, 10 Packs/Case (500 tubes total); Rack included	430055	**05-538-51**	500/281.67
50mL; Max. RCF: 3600 × g; Packaging: 25 Tubes/Pack, 20 Packs/Case (500 tubes total); Rack included	430304	**05-538-49**	500/440.53
15mL; Max. RCF: 3600 × g; Packaging: 25 Tubes/Pack, 20 Packs/Case (500 tubes total); No rack	430053	**05-538-51A**	500/269.50
15mL; Max. RCF: 12000 × g; Packaging: 50 Tubes/Pack, 20 Packs/Case (500 tubes total); Rack included	430052	**05-538-53D**	500/281.17

Corning™ Polypropylene (PP) Centrifuge Tubes

Leak-proof design comes with a revolutionary plug feature that virtually eliminates all seepage when used under recommended conditions

05-538-53

- Clear polypropylene (PP)
- Black printed graduations and a large white marking spot
- Maximum RCF is 12,000 × g
- Sterile, certified nonpyrogenic and DNase-/RNase-free
- 95 k PA (14psi) pressure tested
- Foam racks and CentriStar™ caps also available separately

Description	Mfr. No.	Cat. No.	Case of
15mL; Conical bottom; Max RCF: 12000 × g; Plug seal polyethylene cap; No rack	430766	**05-538-53F**	500/270.01
15mL; Conical bottom; Max RCF: 12000 × g; No cap; No rack	431470	**07-201-330**	500/157.20
50mL; Conical bottom; Max RCF: 12000 × g; No cap; No rack	431472	**07-201-332**	500/221.00
50mL; Conical self-standing bottom; Max RCF: 3000 × g; Polypropylene cap; No rack	430897	**05-538-67**	500/403.48
50mL; Conical bottom; Max RCF: 15500 × g; CentriStar high-density polyethylene cap; No rack	430921	**05-538-68**	500/389.28
50mL; Conical bottom; Max RCF: 15500 × g; Polypropylene cap; Rack included	430290	**05-538-55**	500/377.09
50mL; Conical bottom; Max RCF: 15500 × g; High-density polyethylene cap; No rack	430291	**05-538-55A**	500/375.00
250mL; Conical bottom; Max RCF: 6000 × g; High-density polyethylene cap; No rack	430776	**05-538-53**	102/276.09
15mL; Max. RCF: 12000 × g; Packaging: 50 Tubes/Pack, 20 Packs/Case (500 tubes total); Rack included	430052	**05-538-53D**	500/281.17

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Falcon™ Polypropylene Centrifuge Tubes

Conical tubes with molded graduations

05-538-61

- Polyethylene plug-seal screw cap
- Max RCF: 7500 × g
- Sterilized by gamma radiation

ORDERING INFORMATION:
Supplied 48/bag.

Capacity	Outside Dia. × L	Mfr. No.	Cat. No.	Each
175mL	2.4 × 5.3" (61 × 137mm)	352076	**05-538-62**	119.90
225mL	2.4 × 4.6" (61 × 118mm)	352075	**05-538-61**	131.97

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Falcon™ Centrifuge Tubes

Hydrophobic, biologically inert surface for good cell or protein recovery

Suitable for cell centrifugation applications such as pelleting and separation by density gradients; molecular biology applications including concentrating bacteria for DNA isolation, purification and precipitation of nucleic acids, sample storage (ambient temperature to -80°C) and centrifugation of precipitates.

- Dark blue graduations in 0.5mL increments are visible with clear or turbid samples
- Solvent-resistant white writing area
- Sterilized by gamma irradiation, nonpyrogenic
- Supplied blue HDPE 20mm threaded dome seal closures provide positive seal over the full circumference

Clarified Polypropylene

- Resistant to alcohols and mild organic solvents (not recommended for extraction procedures)
- Translucent wall for easy viewing
- Stable from -80° to +121°C (-112° to +250°F)
- Withstand centrifugal forces to 12,000 × g RCF

Polystyrene

- Optically clear for easy viewing of sample
- Stable from 4° to 60°C (39° to 140°F)
- Withstand centrifugal forces up to 1800 × g RCF

14-959-49B

14-432-22

ORDERING INFORMATION:
Available in bags or recyclable polystyrene racks.

INCLUDES:
Blue dome seal closures (threaded to fit Corning Falcon tubes only). 14-959-53A comes with one rack.

COMPLIANCE:
Manufactured under ISO 9001:2000 standard and FDA Quality System Regulation in Chapter 1, Title 21, Section 820 of CFR. Class I Medical Device.

15mL Conical Centrifuge Tubes

Specifications	
Capacity	15mL
Closure	Screw
Outside Dia. × L	17 × 120mm

Packaging	Mfr. No.	Cat. No.	Case of 500
Polystyrene			
50/Rack	352099	**14-959-49D**	254.10
50/Bag	352095	**05-527-90**	240.00
Polypropylene			
50/Rack	352097	**14-959-70C**	255.49
50/Rack	352196	**14-959-53A**	246.59
50/Sleeve	352096	**14-959-49B**	247.70

50mL Conical Centrifuge Tubes

Specifications	
BIO Packaging	25/Bag
Capacity	50mL
O.D. × L	30 × 115mm
Closure	Screw

Packaging	Mfr. No.	Cat. No.	Case of 500
25/Rack	352098	**14-959-49A**	345.35
25/Bag	352070	**14-432-22**	333.65

Thermo Scientific™ Nalgene™ Oak Ridge High-Speed Centrifuge Tubes w/Sealing Cap, PC

Use at up to 50,000 × g

- Withstand temperatures from -135° to +135°C (-211° to +275°F)
- Transparent for easy viewing contents.
- Round bottom to fit high speed rotors
- Can be used up to 50,000 × g in refrigerated or non-refrigerated centrifuges (must be filled to at least 80% capacity for proper performance)
- Come with PP sealing caps with silicone gaskets for extra leak protection when spinning >10,000 × g or spinning hazardous materials
- Autoclavable; transparent

ORDERING INFORMATION:
Sealing caps also sold separately for 30 and 50mL sizes.

ALERTS:
Autoclaving repeatedly will shorten the life of polycarbonate tubes.

05-563 Series

O.D. × L (w/o cap)	Capacity	Mfr. No.	Cat. No.	Pack of 10	Case of
16.1 × 83.8mm	10mL	3138 0010	**05-563-7A**	128.83	5 Pk./429.60
18.1 × 107.2mm	16mL	3138 0016	**05-563-7B**	159.78	5 Pk./532.78
25.8 × 102.6mm	30mL	3138 0030	**05-563-7E**	222.00	5 Pk./720.00
28.8 × 14.8mm	50mL	3138 0050	**05-563-7G**	239.00	5 Pk./775.00

Thermo Scientific™ Nalgene™ Oak Ridge High-Speed Centrifuge Tubes with Sealing Cap; PPCO, PP screw closure, silicone gasket

Strong, with excellent mechanical strength

- Greater chemical resistance than polycarbonate
- Can be autoclaved repeatedly — last longer than polycarbonate tubes under conditions of repeated autoclaving
- Can be used up to 50,000 × g in refrigerated or non-refrigerated centrifuges (must be filled to at least 80% capacity for proper performance)
- Come with PP sealing caps with silicone gaskets for extra leak protection when spinning >10,000 × g or spinning hazardous materials
- Autoclavable/Leakproof

3139 Series

ORDERING INFORMATION:
Optional sealing-cap assemblies available for selected sizes. Use DS3132-0020 (for 30mL tube) and DS3132-0024 (for 50mL Tube)

ALERTS: Must be filled to 80% of total capacity when centrifuging

O.D. × L (w/o cap)	Capacity	Mfr. No.	Cat. No.	Pack of 10
16.1 × 82.8mm	10mL	3139-0010	**05-563-10A**	170.00
18.1 × 106.4mm	16mL	3139-0016	**05-563-10B**	201.50
25.8 × 102.1mm	30mL	3139-0030	**05-563-10E**	190.00
28.8 × 113.5mm	50mL	3139-0050	**05-563-10G**	297.50

Thermo Scientific™ Nalgene™ Oak Ridge High-Speed Centrifuge Tubes, PC Oak Ridge High-Speed Centrifuge Tubes w/Sealing Cap, PC

Strong and have excellent mechanical strength

- Withstand temperatures from -135° to +135°C (-211° to +275°F)
- Transparent for easy viewing contents
- Round bottom to fit high speed rotors
- Can be used up to 50,000 × g in refrigerated or non-refrigerated centrifuges (must be filled to at least 80% capacity for proper performance)
- Comes with PP linerless closures — easy to clean and provides leak proof protection under normal conditions up to 10,000 × g
- Autoclavable; transparent

3118 Series

ORDERING INFORMATION: Sealing caps also sold separately for 30 and 50mL sizes.

ALERTS: Autoclaving repeatedly will shorten the life of polycarbonate tubes.

O.D. × L (w/o cap)	Capacity	Mfr. No.	Cat. No.	Pack of 10	Case of
16.1 × 81.5mm	10mL	3118-0010	**05-529A**	121.40	10 Pk./789.00
25.8 × 94.0mm	28mL	3118-0028	**05-529E**	131.40	10 Pk./853.00
25.8 × 94.0mm	30mL	3118-0030	**05-529B**	131.40	10 Pk./853.50
28.8 × 106.4mm	50mL	3118-0050	**05-529C**	150.60	10 Pk./979.00
38.2 × 105.2mm	85mL	3118-0085	**05-529D**	182.20	10 Pk./1185.00

Thermo Scientific™ Nalgene™ Oak Ridge High-Speed Centrifuge Tubes; Teflon™ FEP, Tefzel™ ETFE Screw Closure

With round bottoms

- Withstand temperatures from 100° to 150°C (148° to 302°F) for versatility from the freezer to the autoclave and more
- Use to 50,000 × g in refrigerated centrifuges (tubes must be filled 100% to prevent collapse)
- Leakproof[1] Tefzel™ ETFE closures prevent material loss under ordinary use for most spins <10,000 × g
- Sealing caps available for 30mL and 50mL size to assure leakproof service especially at high speeds >10,000 × g or when spinning hazardous materials
- Autoclavable/Biohazard/Leakproof/PTFE FEP

3114 Series

ORDERING INFORMATION:
Optional sealing caps available — DS3131-0020 (for 30mL tube) and DS3131-0024 (for 50mL tube).

INCLUDES:
Tefzel ETFE screw caps. Additional sealing cap assembly available separately (DS3131-series).

ALERTS:
Must be filled to 100% of total capacity for centrifugation

O.D. × L (w/o cap)	Capacity	Mfr. No.	Cat. No.	Pack of 2	Case of 5 Pack
16 × 82mm	10mL	3114-0010	**05-562-16C**	105.50	343.00
25.5 × 94mm	30mL	3114-0030	**05-562-16A**	148.79	495.96
29 × 108mm	50mL	3114-0050	**05-562-16B**	169.80	552.00

[1] The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes and no water escapes. Note: these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.

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Thermo Scientific™ Nalgene™ Oak Ridge High-Speed Centrifuge Tubes; PPCO, PP Screw Closure

Translucent, autoclavable tubes with excellent chemical resistance

3110 Series

- Designed with round bottoms to fit high speed rotors in refrigerated or non-refrigerated centrifuges (tubes must be filled to at least 80% capacity for proper function)
- Molding technique produces uniform wall thickness for increased strength
- Uniform diameter (no taper) for better rotor fit and force tolerance
- 50 and 100mL sizes available lipped for easier retrieval from rotor cavities
- Economical choice — may also be used as test tubes
- Longer-lasting than polycarbonate tubes under conditions of repeated autoclaving
- Autoclavable

ORDERING INFORMATION: Supplied without closure; friction-fit closures available separately (DS3111-series)

O.D. × L	Capacity	Mfr. No.	Cat. No.	Pack of 10	Case of
16 × 103mm	12mL	3110-0120	**05-562-10A**	53.70	10 Pk./357.83
16 × 114mm	15mL	3110-0150	**05-562-10D**	56.13	10 Pk./374.00
18 × 99mm	16mL	3110-0160	**05-562-10G**	56.33	10 Pk./375.00
25 × 89mm	38mL	3110-0380	**05-562-10J**	60.12	10 Pk./400.82
29 × 103mm	50mL	3110-0500	**05-562-10B**	64.60	10 Pk./414.50
28.5 × 104mm	50mL	3110-9500	**05-562-10K**	82.80	10 Pk./551.67
32 × 164mm	100mL	3110-1000	**05-562-10C**	142.28	4 Pk./379.62

Thermo Scientific™ Nalgene™ Oak Ridge High-Speed Polypropylene Copolymer Centrifuge Tubes, PPCO

Strong with excellent mechanical strength

3119 Series

- Greater chemical resistance than polycarbonate
- Can be autoclaved repeatedly — last longer than polycarbonate tubes under conditions of repeated autoclaving
- Can be used up to 50,000 × g in refrigerated or non-refrigerated centrifuges (must be filled to at least 80% capacity for proper performance)
- Come with PP linerless closures — easy to clean and provides leak proof protection under normal conditions up to 10,000 × g
- Autoclavable/Leakproof†

ORDERING INFORMATION: Optional sealing-cap assemblies available for selected sizes. Use DS3132-0020 (for 26 and 30mL tube) and DS3132-0024 (for 50mL Tube)

ALERTS:
Must be filled to 80% of total capacity when centrifuging

O.D. × L (w/o cap)	Capacity	Mfr. No.	Cat. No.	Pack of 10
16.1 × 80.5mm	10mL	3119-0010	**05-529-1A**	98.60
25.8 × 94.0mm	28mL	3119-0028	**05-529-1B**	110.70
25.8 × 93.5mm	30mL	3119-0030	**05-529-1C**	110.80
28.8 × 105.9mm	50mL	3119-0050	**05-529-1D**	131.70

† For definition of leakproof, please see bottom of page.

Thermo Scientific™ Nunc™ 15mL & 50mL Conical Sterile Polypropylene Centrifuge Tubes

- Environmentally friendly recyclable plastic rack that reduces contamination from traditional foam packaging
- Leakproof† to protect your samples
- RNase/DNase free

Specifications	
Material (Tube)	Polypropylene
Material (Cap)	HDPE
Color (Cap)	Blue
Shape	Conical
Sterile	Yes
Writing Area	Yes

Capacity	Packaging	Packaging	Mfr. No.	Cat. No.	Each
15mL	Bulk Pack	500/Cs.	339650	**12-565-268**	247.00
15mL	Reusable and recyclable polypropylene rack	500/Cs.	339651	**12-565-269**	254.50
50mL	Bulk Pack	500/Cs.	339652	**12-565-270**	349.50
50mL	Reusable and recyclable polypropylene rack	300/Cs.	339653	**12-565-271**	213.00

† The term "leakproof" applies to Thermo Scientific Nalgene products that meet the following criteria: a) Bottle/flask/funnel closure systems with closures smaller than 100mm, after they are filled with water, inverted, withstand air pressure of 2psig for 2 minutes and no water escapes;. b) Bottle/funnel/flask closure systems of larger than 100mm after they are filled with water, inverted for 15 minutes and no water escapes. Note: these tests, using other liquids, may not yield the same results. To ensure safe usage, customers are advised to test Thermo Scientific Nalgene bottles and closures under conditions of their planned applications. Thermo Scientific Nalgene products are leakproof at ambient temperature and pressure when used with their Nalgene closures.

Axygen™ Centrifuge Tubes

Graduated tubes with conical bottom

14-222-961

- Available in nonsterile and presterilized formats
- 50mL tubes rated to 12,000 × g; 15mL tubes to 12,000 × g
- Writing area for sample identification
- Caps close with one hand

Packaging	Volume	Mfr. No.	Cat. No.	Price
Conical Bottom Screw Cap Tubes, Attached Clear Looped Caps				
500 Tubes and Caps Per Unit; 8 Units Per Case	1.5mL	SCT-150-LP-C	**14-223-071**	217.00
Self Standing Centrifuge Tubes				
500 Tubes and Caps Per Unit; 8 Units Per Case	2mL	SCT-200-SS-X	**14-223-202**	153.70
25 Tubes and caps/Bag; 20 Bags/Cs.	50mL	SCT-50-SS-25-S	**14-222-966**	233.50
Non sterile Conical Centrifuge Tube				
25 Tubes and caps/Rack; 20 Racks/Cs.	15mL	SCT-15ML-500	**14-222-961**	118.20
50 Tubes and caps/Unit; 20 Units/Cs.	15mL	SCT-15ML-25-S	**14-222-962**	260.50
25 Tubes and caps/Unit; 20 Units/Cs.	50mL	SCT-50ML-25-S	**14-222-963**	225.50
25 Tubes and caps/Rack; 20 Racks/Cs.	50mL	SCT-50ML-R-S	**14-222-965**	278.50
Presterilized Conical Centrifuge Tube				
500 Tubes and caps/Cs.	15mL	SCT-15ML-25-S	**14-222-960**	203.00
500 Tubes and caps/ Cs.	50mL	SCT-50ML-500	**14-222-964**	125.00
Nonsterile Self-standing Centrifuge Tube				
500 Tubes and caps/Bag; Bulk	50mL	SCT-50-SS-500	**14-222-967**	176.50

Centrifuge - Glass

Kimble-Chase Conical-Bottom Glass Centrifuge Tubes

- With conical shaped bottom
- Tubes are made from borosilicate glass in compliance with ASTM Specification E438, Type I, Class A or B glass requirements

20-183-5B

O.D. × L	Glass Type	Closure	Graduations	Special Features	Mfr. No.	Cat. No.	Pack of
2mL capacity							
11 × 66mm	Kimax™ Brand	None	None	Beaded rim	45150 2	**20-183-5B**	12/62.40
5mL capacity							
13 × 110mm	Borosilicate	None	None	Disposable; withstand up to 2980 × g	73790 5	**05-538-41B**	125/114.20
13 × 110mm	Borosilicate	None; GPI Thread 13-415 finish	None	Disposable; resistant to organic chemicals	73785 5	**05-569-1**	125/129.00
10mL capacity							
16 × 114mm	Borosilicate	None	None	Disposable; withstand speeds to 2980 × g	73790 10	**05-538-41C**	125/113.30
16 × 114mm	Borosilicate	None; GPT Thread 15-415 finish	None	Disposable; resistant to organic chemicals	73785 10	**05-569-2**	125/128.90
17 × 108mm	Kimax Brand	None	0.1mL	Calibrated "To Contain"; White enamel graduations	45165 10	**05-493**	12/270.53
17 × 116mm	Heavy-duty Kimax Brand	GPI Thread 15-415 Screw Cap	0.1mL	Calibrated "To Contain"	45200 10	**05-538-33A**	12/421.50
17 × 117mm	Heavy-duty Kimax Brand	No. 13 Pennyhead Stopper	0.1mL	Calibrated "To Contain"	45201 10	**05-538-38A**	6/265.28
12mL capacity							
17 × 118mm	Heavy-duty Kimax Brand	None	None	Beaded rim	45194 12	**05-537-12**	12/69.86
17 × 118	Heavy-duty Kimax Brand	None	0.1mL	Beaded rim; Calibrated "To Contain"	45199 12	**K45199-12**	12/255.50
12.5mL capacity							
17 × 118mm	Kimax Brand	None	0.2% from 0 to 3%, 0.5% from 3 to 10%, 1.0% from 10 to 50%, 100%	For determining water and bottom sediment in petroleum	45170 125	**05-603**	12/299.00
13mL capacity							
17 × 130mm	Kimax Brand	No. 13 Flathead Stopper	0.1mL	Permanent red graduations	45176 13	**05-538-40A**	6/268.50
17 × 141mm	Heavy-duty Kimax Brand	No. 13 Flathead Stopper	None	Tapered bottom with straight sides to fit tapered holders	45174 13	**05-538-29A**	6/153.80
15mL capacity							
17 × 118mm	Kimax Brand	None	None	Beaded rim	45160 15	**05-537-7A**	12/81.00
17 × 118mm	Kimax Brand	None	0.1mL	Calibrated "To Contain" White enamel graduations	45165 15	**05-494**	12/206.44
17 × 118mm	Kimax Brand	None	0.1mL	Permanent red graduations	45164 15	**05-494-1**	12/208.75
17 × 126mm	Borosilicate	None	None	Disposable; Withstand speeds to 2980 × g	73790 15	**05-538-41D**	125/117.00
17 × 126mm	Borosilicate	None; GPI Thread 15-415 finish	None	Resistant to organic chemicals	73785 15	**05-569-3**	125/134.70
17 × 130mm	Kimax Brand	GPI Thread 15-415 Screw Cap	0.1mL	Calibrated "To Contain"	45166 15	**05-538-32B**	12/324.00
17 × 136mm	Kimax Brand	No. 13 Pennyhead Stopper	0.1mL	Calibrated "To Contain"	45153 15	**05-537-6A**	12/459.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Pear-Shaped Glass Centrifuge Tubes

Kimax™ brand glass. For use in Thermo Scientific™ IEC™ HN-SII Centrifuge with 05-121-1 rotor.

05-624

O.D. × L	Capacity	Closure	Graduations	Special Features	Mfr. No.	Cat. No.	Pack of	Case of
58 × 158mm	100mL	No Stopper Included	0.1mL from 0 to 1.5mL, 0.5 from 1.5 to 5mL, 1 from 5 to 10mL, 5 from 10 to 25mL, 50 and 100mL	For determination of water and bottom sediment in petroleum products	45244 100	**05-615**	6/915.50	2 Pk./1355.00
58 × 160mm	100mL	No. 16 Pennyhead Stopper Included	0.01mL from 0 to 0.2mL, 25, 50 and 100mL	Goetz tube calibrated "To Contain"	45220 100	**05-624**	2/331.00	3 Pk./734.00

Kimble-Chase Kontes™ KIMAX™ Reusable Threaded Centrifuge Tubes

Heavy wall withstands high centrifuge speeds

Ideal for separating neutralized sediment for culturing from specimens of sputum in clinical work and microbiological applications.

- Marking spot is sandblasted
- Caps are not attached
- Supplied with autoclavable caps with rubber liners
- GPI thread finish is 24mm-410

05-558-12A

Capacity	Outside Dia. × L	Mfr. No.	Cat. No.	Each
1.15 oz. (35mL)	29 × 100mm	45212 35	05-558-12A	183.00
1.69 oz. (50mL)	29 × 123mm	45212 50	05-558-12B	264.00

Kimble-Chase Kontes™ KIMAX™ Reusable High Strength Centrifuge Tubes

Chemically strengthened to achieve a greater mechanical strength

- Made of KIMAX Type 1, Class B, borosilicate glass
- Can be centrifuged up to 13,100 × g with rubber adapter sleeve
- Withstand temperatures up to 300°C

05-569-12

Capacity	Outside Dia. × L	Mfr. No.	Cat. No.	Each
Plain				
0.50 oz. (15mL)	18 × 102mm	45500 15	**09-500-34**	78.60
1.01 oz. (30mL)	24 × 106mm	45500 30	**09-500-37**	132.90
Screw Thread				
0.50 oz. (15mL)	18 × 102mm	45600 15	**05-569-12**	199.10
1.01 oz. (30mL)	24 × 106mm	45600 30	**05-569-13**	202.00

Kimble-Chase Adapters for Round-Bottom Centrifuge Tubes

Required when centrifuging select Kimble-Chase high-strength round-bottom centrifuge tubes to 13,000 × g in 50mL rotor

- Made of rubber

05-569-1 Series

For Tube	Mfr. No.	Cat. No.	Pack of 2
09-500-34, 05-569-12	45550 15	**05-569-10**	40.10
09-500-37, 05-569-13	45550 30	**05-569-11**	46.45

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Corning™ Conical-Bottom Glass Centrifuge Tubes

05-538-35A

O.D. × L	Glass Type	Closure	Graduations	Special Features	Mfr. No.	Cat. No.	Each	Case of
3mL capacity								
11 × 76mm	Pyrex™ Brand	None	None	Beaded rim	8060 3	**20-183B**	75.80	----
5mL capacity								
13 × 101mm	Pyrex Brand	None	None	Beaded rim	8060 5	**20-183C**	76.00	----
13 × 135mm	Pyrex Brand	No. 9 Pennyhead Stopper	0.1mL	White enamel graduations	8084 5	**05-538-35A**	550.50	----
12mL capacity								
17 × 120mm	Heavy-duty Pyrex Brand	None	None	Beaded rim	8120 12	**05-506**	75.70	----
17 × 120mm	Heavy-duty Pyrex Brand	None	0.1mL	White enamel graduations	8140 12	**05-496**	26.90	12/231.50
17 × 135mm	Heavy-duty Pyrex Brand	No. 13 Pennyhead Stopper	None	None	8124-12	**05-538-26A**	442.50	----
15mL capacity								
17 × 119mm	Pyrex Brand	None	0.1mL	Beaded rim	8080 15	**05-495**	24.95	12/211.00
17 × 120mm	Pyrex Brand	None	None	Beaded rim	8060 15	**05-505**	85.20	----
17 × 120mm	Pyrex Brand	None	0.1mL	Colored graduations; beaded rim	8101 15	**05-507-5B**	220.50	----
17 × 134mm	Pyrex Brand	GPI Thread 15-415 Screw Cap	0.1mL	White enamel graduations	8082 15	**05-538-30A**	38.30	12/315.71
17 × 164mm	Pyrex Brand	No. 13 Pennyhead Stopper	0.1mL	White enamel graduations	8084 15	**05-538-35B**	55.20	12/465.50
40mL capacity								
29 × 116mm	Heavy-duty Pyrex Brand	None	None	Pour spout	8320 40	**05-543-5**	14.96	12/123.01
29 × 118mm	Heavy-duty Pyrex Brand	None	0.5mL from 0 to 10mL, 1 from 10 to 40	Pour spout; white enamel graduations	8340 40	**05-542-5**	643.50	----
50mL capacity								
28 × 135mm	Pyrex Brand	None	None	Beaded rim	8060 50	**05-535**	179.70	----
28 × 135mm	Pyrex Brand	None	0.5mL from 0 to 10mL, 1 from 10 to 50mL	Beaded rim	8080 50	**05-525**	223.50	2/332.50
28 × 135mm	Pyrex Brand	None	0.5mL from 0 to 10mL, 1 from 10 to 50mL	Colored graduations; beaded rim	8101 50	**05-507-5C**	34.20	----
28 × 150mm	Pyrex Brand	GPI Thread 24-410 Screw Cap	0.5mL from 0 to 10mL, 1 from 10 to 50mL	White enamel graduations	8082 50	**05-538-30C**	53.90	12/454.00
28 × 176mm	Pyrex Brand	No. 16 Pennyhead Stopper	0.5mL from 0 to 10mL, 1 from 10 to 50mL	White enamel graduations	8084 50	**05-538-35C**	664.00	----
29 × 118mm	Pyrex Brand	None	0.5mL from 0 to 10mL, 1 from 10 to 50mL	White enamel graduations	8300 50	**05-542**	61.20	12/533.00
100mL capacity								
37 × 200mm	Pyrex Brand	None	0.05mL from 0 to 0.5mL, 0.1 from 0.5 to 3mL, 0.5 from 3 to 5mL, 1 from 5 to 100mL	Weathering tube for testing gas mixtures (ASTM™ D 1837, D 2158). For use in Thermo Scientific™ IEC™ centrifuge HN-Sii with 05-152-2 rotor systems.	9610 100	**08-261-6**	83.40	----

Pyrex™ Brand Pear-Shaped Glass Centrifuge Tubes

Without closures

- For use in IEC™ HN-SII Centrifuge from Thermo Scientific with 05-152-1 rotor, available online

05-620

Capacity	Graduations	Special Features	Mfr. No.	Cat. No.	Each	Case of 12
100mL	0.1mL from 0 to 1.5mL, 0.5 from 1.5 to 5mL, 1 from 5 to 10mL, 15, 20, 25, 50 and 100mL	Oil tube for ASTM™ D 96 and D 1966	8200-100	**05-620**	157.70	1330.00
100mL	0.05mL from 0 to 1mL, 1 from 1 to 5mL, 5 from 5 to 50mL, 10 from 50 to 100mL	Goetz tube for phosphorus determinations in iron and steel	8220-100	**05-622**	141.70	1196.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Pyrex™ Brand Round-Bottom Glass Centrifuge Tubes

Without graduations

05-558-5B

Capacity	Material	Closure	Special Features	Mfr. No.	Cat. No.	Price	Case of 12
50mL	Heavy-duty Pyrex Brand	GPI Thread 24-410 Screw Cap	For clinical and micro-biological testing	8422 50	**05-558-5B**	29.90	251.00
50mL	Pyrex Brand	None	With pour spout	8240 50	**05-550**	9.73	80.29
50mL	Pyrex Brand	No. 13 Pennyhead Stopper	Extra-thick walls for durability	8424 50	**05-558-10**	----	398.50

Corning™ Black Phenolic Screw Caps

Resist effects of temperature and steam in autoclaving

- White rubber liner

14-962-30G

GPI Thread	Mfr. No.	Cat. No.	Case of
15-415	9999-152	**14-962-30G**	288/94.60
18-415	9999-182	**02-883-9J**	192/100.90
28-410	9999-281	**22-035-548**	12/41.15
38-430	9999-381M	**02-883-9L**	72/220.00
40-400	9999-40	**02-883-9D**	72/208.50

Centrifuge - Micro

Fisherbrand® Premium Microcentrifuge Tubes

Flat-top snap caps provide a safe, liquid-tight, reliable seal even with prolonged boiling

- Choose from 0.5, 1.5, or 2.0mL tubes
- Made of high-clarity polypropylene
- Withstand forces up to 30,000 x g
- Easy-open caps with needle insertion spot and textured marking area
- Labeling area on tube exterior
- Graduated: for 0.5mL tubes, 0.1mL markings; 1.5mL tubes, 0.1 and 0.25mL; 2.0mL tubes, 0.25mL
- Highly polished interior for maximum sample recovery
- Temperature range of -80° to +121°C
- Fit all standard rotors
- Nonpyrogenic
- Autoclavable at 121°C/15psi for 15 minutes

05-408 Series

ORDERING INFORMATION:
Available in eight colors or in assorted-color packs.

	0.5mL Tubes				1.5mL Tubes				2.0mL Tubes			
Color	O.D. × L	Cat. No.	Pk. of 500	Cs. of 10 Pk.	O.D. × L	Cat. No.	Pk. of 500	Cs. of 10 Pk.	O.D. × L	Cat. No.	Pk. of 500	Cs. of 10 Pk.
Natural	7.5 × 30.5mm	**05-408-120**	61.10	521.73	10.8 × 40.6mm	**05-408-129**	62.63	481.03	11 × 40.6mm	**05-408-138**	68.75	586.50
Red	7.5 × 30.5mm	**05-408-121**	60.69	518.67	10.8 × 40.6mm	**05-408-130**	67.93	580.38	11 × 40.6mm	**05-408-139**	68.75	586.50
Yellow	7.5 × 30.5mm	**05-408-122**	60.69	518.67	10.8 × 40.6mm	**05-408-131**	67.12	572.73	11 × 40.6mm	**05-408-140**	71.50	609.96
Blue	7.5 × 30.5mm	**05-408-123**	64.67	552.33	10.8 × 40.6mm	**05-408-132**	67.32	531.66	11 × 40.6mm	**05-408-141**	68.75	586.50
Green	7.5 × 30.5mm	**05-408-124**	60.69	518.67	10.8 × 40.6mm	**05-408-133**	67.22	573.75	11 × 40.6mm	**05-408-142**	68.85	587.52
Amber	7.5 × 30.5mm	**05-408-125**	69.77	596.19	10.8 × 40.6mm	**05-408-134**	67.52	577.32	11 × 40.6mm	**05-408-145**	68.75	586.50
Orange	7.5 × 30.5mm	**05-408-126**	60.69	518.67	10.8 × 40.6mm	**05-408-135**	69.26	592.11	11 × 40.6mm	**05-408-143**	72.52	619.65
Lavender	7.5 × 30.5mm	**05-408-127**	60.69	518.67	10.8 × 40.6mm	**05-408-136**	69.26	592.11	11 × 40.6mm	**05-408-144**	68.75	586.50
Assorted†	7.5 × 30.5mm	**05-408-128**	65.08	555.90	10.8 × 40.6mm	**05-408-137**	66.91	551.70	11 × 40.6mm	**05-408-146**	73.44	627.30

Fisherbrand® Snap-Cap™ Microcentrifuge Tubes: Flat Top

Polypropylene tubes

- Packed in bulk
- Nonsterile

02-681 Series

Color	Capacity	O.D. × L	Max. RCF	Cat. No.	Pack of	Case of 10 Packs
Capacity, 0.6mL						
Natural	0.6mL	10 × 30mm	26,000 × g	**02-681-240**	1000/130.87	1137.30
Red	0.6mL	10 × 30mm	17,000 × g	**02-681-241**	1000/127.19	1105.68
Blue	0.6mL	10 × 30mm	17,000 × g	**02-681-242**	1000/127.19	1105.68
Green	0.6mL	10 × 30mm	17,000 × g	**02-681-243**	1000/127.19	1105.68
Yellow	0.6mL	10 × 30mm	17,000 × g	**02-681-244**	1000/126.99	1105.68
Orange	0.6mL	10 × 30mm	17,000 × g	**02-681-245**	1000/127.19	1105.68
Violet	0.6mL	10 × 30mm	17,000 × g	**02-681-246**	1000/127.19	1105.68
Assorted	0.6mL	10 × 30mm	17,000 × g	**02-681-248**	1000/127.19	1105.68
Capacity, 1.5mL						
Natural	1.5mL	14 × 39mm	26,000 × g	**02-681-272**	500/77.00	650.00
Assorted	1.5mL	14 × 39mm	26,000 × g	**02-681-10**	500/75.58	632.40

Fisherbrand® Snap-Cap™ Microcentrifuge Tubes: Standard

Nonsterile

- Packed in bulk
- Color: Natural

02-681 Series

Material	Capacity	O.D. × L	Max. RCF	Cat. No.	Pack of 1000	Case of 10 Packs
Polyethylene	0.25mL	8 × 35mm	28,000 × g	**02-681-449**	139.03	1207.68
Polypropylene	0.25mL	8 × 35mm	30,000 × g	**02-681-230**	141.58	1230.12
Polyethylene	0.4mL	8 × 48mm	----	**02-681-229**	135.25	1174.02

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Prices subject to change.

Fisherbrand® Snap-Cap™ Flat-Top Graduated Microcentrifuge Tubes

Available as sterile and nonsterile

- Polypropylene
- Graduated
- In different colors

02-681 Series

Color	O.D. × L	Max. RCF	Cat. No.	Pack of	Case of 10 Packs
Capacity, 0.6mL (bulk/nonsterile); graduated in 0.2mL increments					
Natural	10 × 30mm	30,000 × g	**02-681-257**	1000/129.23	1122.00
Red	10 × 30mm	30,000 × g	**02-681-249**	1000/129.23	1122.00
Blue	10 × 30mm	30,000 × g	**02-681-250**	1000/129.23	1122.00
Green	10 × 30mm	30,000 × g	**02-681-251**	1000/129.23	1122.00
Yellow	10 × 30mm	30,000 × g	**02-681-252**	1000/129.23	1122.00
Orange	10 × 30mm	30,000 × g	**02-681-253**	1000/129.23	1122.00
Violet	10 × 30mm	30,000 × g	**02-681-254**	1000/129.23	1122.00
Amber	10 × 30mm	30,000 × g	**02-681-255**	1000/129.23	1122.00
Assorted	10 × 30mm	30,000 × g	**02-681-256**	1000/129.23	1122.00
Capacity, 0.6mL (single-wrapped/sterile); graduated in 0.2mL increments					
Natural	10 × 30mm	25,000 × g	**02-681-268**	1000/236.13	1976.76
Capacity, 1.5mL (bulk/nonsterile); graduated in 0.5mL increments					
Assorted	14 × 39mm	17,000 × g	**02-682-556**	500/24.50	206.00
Capacity, 2.0mL (bulk/nonsterile); graduated in 0.5mL increments					
Natural	13 × 40mm	25,000 × g	**02-681-258**	500/27.50	236.50
Red	13 × 40mm	25,000 × g	**02-681-259**	500/80.99	701.25
Blue	13 × 40mm	25,000 × g	**02-681-261**	500/80.99	701.25
Green	13 × 40mm	25,000 × g	**02-681-262**	500/80.99	701.25
Yellow	13 × 40mm	25,000 × g	**02-681-260**	500/80.99	701.25
Violet	13 × 40mm	25,000 × g	**02-681-264**	500/80.99	701.25
Amber	13 × 40mm	25,000 × g	**02-681-265**	500/80.99	701.25
Assorted	13 × 40mm	25,000 × g	**02-681-266**	500/80.99	701.25
Capacity, 2.0mL (single-wrapped/sterile); graduated in 0.5mL increments					
Natural	13 × 40mm	25,000 × g	**02-681-271**	250/130.15	1129.14

Fisherbrand® Locking-Lid Microcentrifuge Tubes with Polypropylene Snap-Cap™

Convenient, pierceable locking lids snap into place with one-handed operation

- Polypropylene tubes with flat tops
- Ideal for sample-handling applications, including centrifugation, boiling and freezing of specimens, incubation and storage
- With graduation marks for volume estimation
- RNase and DNase free

02-681 Series

NOTES:
Centrifuges that develop excessive heat may damage this tube.

Color	Max. RCF	Cat. No.	Pack of	Case of 10 Packs
Capacity: 0.6mL				
Natural	30,000 × g	**02-681-273**	1000/94.00	828.00
Red	30,000 × g	**02-681-274**	1000/94.00	828.00
Blue	30,000 × g	**02-681-275**	1000/94.00	828.00
Green	30,000 × g	**02-681-276**	1000/94.00	828.00
Yellow	30,000 × g	**02-681-277**	1000/94.00	828.00
Orange	30,000 × g	**02-681-278**	1000/94.00	828.00
Violet	30,000 × g	**02-681-279**	1000/94.00	828.00
Assorted	30,000 × g	**02-681-281**	1000/97.70	861.50
Natural, single-wrapped/sterile	25,000 × g	**02-681-300**	500/133.93	1162.80
Capacity: 1.5mL				
Blue	26,000 × g	**02-681-282**	500/49.25	417.50
Green	26,000 × g	**02-681-283**	500/49.25	417.50
Natural	26,000 × g	**02-681-284**	500/49.25	417.50
Yellow	26,000 × g	**02-681-285**	500/49.25	417.50
Red	26,000 × g	**02-681-286**	500/49.25	417.50
Orange	26,000 × g	**02-681-287**	500/49.25	417.50
Violet	26,000 × g	**02-681-288**	500/49.25	417.50
Assorted	26,000 × g	**02-681-290**	500/49.25	417.50
Natural, single-wrapped/sterile	26,000 × g	**02-681-301**	250/78.10	679.50
Capacity: 2.0mL				
Natural	25,000 × g	**02-681-291**	500/60.50	516.50
Red	25,000 × g	**02-681-292**	500/60.50	516.50
Blue	25,000 × g	**02-681-293**	500/60.50	516.50
Green	25,000 × g	**02-681-294**	500/59.26	499.29
Yellow	25,000 × g	**02-681-295**	500/60.50	516.50
Orange	25,000 × g	**02-681-296**	500/60.50	516.50
Violet	25,000 × g	**02-681-297**	500/60.50	516.50
Assorted	25,000 × g	**02-681-299**	500/61.71	519.69
Natural, single-wrapped/sterile	25,000 × g	**02-681-302**	250/83.80	737.00

Fisherbrand® Siliconized Low-Retention Microcentrifuge Tubes

Snap-Cap™ lid provides a secure seal — even over extended periods

- Manufactured from durable chemical-resistant polypropylene
- Fully graduated with a frosted writing area for easy marking
- 0.6mL tube is graduated in 0.2mL increments; 1.5mL tube, in 0.5mL increments with an additional graduation at 0.1 and 2.0mL size, in 0.5mL increments
- Designed for use in critical applications where minute sample recovery is important
- Withstand speeds up to 30,000 × g
- Recommended for freezer-to-centrifuge use
- Autoclavable up to 120°C and withstand freezing temperatures as low as -80°C

ORDERING INFORMATION: Nonsterile tubes supplied in bulk pack. Sterile tubes (natural colored) come individually wrapped.

02-681-300 Series

0.6mL Tubes				1.5mL Tubes				2.0mL Tubes			
O.D. × L	Cat. No.	Pack of 500	Case of	O.D. × L	Cat. No.	Pack of 250	Case of	O.D. × L	Cat. No.	Pack of 250	Case of
Natural, Nonsterile, Bulk											
10 × 30mm	**02-681-311**	57.94	20 Pk./973.08	13 × 40mm	**02-681-320**	38.40	20 Pk./646.00	13 × 40mm	**02-681-321**	45.80	20 Pk./770.50
Natural, Sterile, Individually Wrapped											
----	----	----	----	13 × 40mm	**02-681-331**	100.88	10 Pk./874.65	13 × 40mm	**02-681-332**	146.98	10 Pk./1284.18

Fisherbrand® Nonsterile Microcentrifuge Tubes with Threaded End

Choose skirted- or conical-bottom style

- Threaded to accept colored screw caps (sold separately)
- Siliconized/low-retention conical-bottom tubes also available

02-681 Series

Color	Capacity	Max. RCF	Cat. No.	Pack of 500	Case of 10 Packs
Skirted-bottom tubes					
Natural	0.5mL	30,000 × g	**02-681-333**	79.05	611.49
Amber	0.5mL	30,000 × g	**02-681-337**	78.23	658.41
Natural	1.5mL	18,000 × g	**02-681-338**	82.93	658.41
Amber	1.5mL	18,000 × g	**02-681-342**	82.93	712.98
Natural	2.0mL	18,000 × g	**02-681-343**	87.92	640.05
Amber	2.0mL	18,000 × g	**02-681-346**	83.64	725.73
Conical-bottom tubes					
Natural	0.5mL	25,000 × g	**02-681-334**	76.91	611.49
Amber	0.5mL	25,000 × g	**02-681-335**	77.32	650.76
Natural	1.5mL	30,000 × g	**02-681-339**	79.05	615.06
Amber	1.5mL	30,000 × g	**02-681-340**	78.23	658.41
Natural	2.0mL	25,000 × g	**02-681-344**	84.56	615.06
Amber	2.0mL	25,000 × g	**02-681-345**	85.40	743.50

Fisherbrand® Sterile Microcentrifuge Tubes with Screw Caps

Choose skirted or conical-bottom style

- With unattached caps
- Natural-colored screw caps with O-rings

02-681 Series

Capacity	Max. RCF	Cat. No.	Pack of 500	Case of 5 Packs
Skirted-bottom tubes				
0.5mL	30,000 × g	**02-681-370**	459.00	1921.68
1.5mL	18,000 × g	**02-681-372**	459.00	1921.68
2.0mL	18,000 × g	**02-681-374**	459.00	1921.68
Conical-bottom tubes				
0.5mL	25,000 × g	**02-681-371**	459.00	1921.68
1.5mL	30,000 × g	**02-681-373**	459.00	1921.68
2.0mL	25,000 × g	**02-681-375**	459.00	1921.68

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Colored Screw Caps

For use with nonsterile skirted- and conical-bottom tubes

- Feature a frosted writing surface
- Can be pierced for sample removal

Color	Cat. No.	Pack of 500	Case of 5000
Without O-Ring			
Natural	**02-681-347**	71.11	596.55
Blue	**02-681-348**	71.11	596.55
Yellow	**02-681-349**	71.11	596.55
Red	**02-681-350**	71.11	596.55
Violet	**02-681-354**	71.11	596.55
Mixed	**02-681-357**	71.11	596.55
With O-Ring			
Natural	**02-681-358**	127.13	1109.56
Blue	**02-681-359**	130.90	1123.00
Yellow	**02-681-360**	127.13	1109.56
Red	**02-681-361**	127.13	1109.56
Green	**02-681-363**	127.13	1109.56
Orange	**02-681-364**	127.13	1109.56
Violet	**02-681-366**	130.90	1123.00
Amber	**02-681-367**	130.90	1123.00
Mixed	**02-681-368**	128.41	1121.34

Fisherbrand® Polystyrene Microcentrifuge Tube

Can be filled without capillary

- 1mL capacity
- O.D. × L: 3.7 × 55mm
- Disposable polystyrene tube
- Conical and transparent
- Plug-type cap prevents evaporation and contamination, minimizes electrolyte disturbances caused by gas loss during centrifugation

04-978-145

O.D. × L	Cat. No.	Pack of 500
3.7 × 55mm	**04-978-145**	173.88

Fisherbrand® Microcentrifuge Tubes with Tether Cap

Reduce sample contamination by keeping cap with tube

02-707-350 Series

Natural-colored polypropylene tubes include leash-and-loop tether. Ultragrade polypropylene caps are fitted with ethylene/propylene O-rings. Available sterile or nonsterile with round or skirted bottoms.

- Removable tether rotates freely for easy opening and closing
- O-ring forms positive seal with tube to reduce leakage
- Frosted writing area
- Withstand 20,000 × g
- Suitable for vapor-phase liquid nitrogen storage, boiling and autoclaving

ORDERING INFORMATION:
Nonsterile tubes come separate from tether caps; sterile tubes come attached; 500 per pack

Capacity	Description	Cat. No.	Pack of 500	Case of
Round-bottom				
0.5mL	Nonsterile	**02-707-350**	175.20	10 Pk./1485.00
0.5mL	Sterile	**02-707-351**	213.50	5 Pk./866.00
1.5mL	Nonsterile	**02-707-352**	175.20	10 Pk./1479.00
1.5mL	Sterile	**02-707-353**	213.50	5 Pk./862.50
2.0mL	Nonsterile	**02-707-354**	175.20	10 Pk./1453.00
2.0mL	Sterile	**02-707-355**	213.50	5 Pk./866.00
Skirted-bottom				
0.5mL	Nonsterile	**02-707-356**	175.20	10 Pk./1485.00
0.5mL	Sterile	**02-707-357**	213.50	5 Pk./866.00
1.5mL	Nonsterile	**02-707-358**	175.20	10 Pk./1479.00
1.5mL	Sterile	**02-707-359**	213.50	5 Pk./862.50
2.0mL	Nonsterile, Graduated	**02-707-360**	175.20	10 Pk./1485.00
2.0mL	Sterile, Graduated	**02-707-361**	203.50	5 Pk./866.00

Fisherbrand® Rimmed Microcentrifuge Tubes

With graduation marks for estimating volume and frosted writing area for sample identification

- Natural-colored tubes without lids
- Made from durable, chemical-resistant polypropylene
- Autoclavable to 120°C; freezable to -80°C
- Withstand forces to 30,000 × g

ORDERING INFORMATION:
Plug-style closures available for 1.5 and 2.0mL tubes to prevent evaporation and contamination; see 05-562-11 Series Friction-Fit Closures

02-681-450 Series (shown with 02-681-450 plug closure)

Capacity	O.D. × L	Graduations	Cat. No.	Pack of 1000	Case of 10 Packs
0.6mL	10 × 30mm	0.2, 0.4, 0.6mL	**02-681-451**	61.10	524.00
1.5mL	13 × 40mm	0.1, 0.5, 1.0, 1.5mL	**02-681-452**	66.30	571.00
2mL	13 × 40mm	0.5, 1.0, 1.5, 2.0mL	**02-681-453**	79.10	692.50

Corning™ Microcentrifuge Tubes

Specially designed polypropylene tubes protect sensitive samples and provide added security against leakage and contamination

- Screw caps feature one-handed capping and uncapping
- Plug-seal top
- Standard conical bottom or free-standing skirted bottom
- Unattached rim-seal screw cap or attached-loop screw cap with silicone O-ring for optimum cap-to-vessel seal
- Withstand forces up to 20,000 × g
- All tubes and caps sterilized

Screw Cap	Freestanding	Mfr. No.	Cat. No.	Case of 500
1.5mL				
Attached Loop	No	430909	**05-538-71A**	280.16
2.0mL				
Attached Loop	Yes	430915	**05-538-69C**	281.04
Unattached	Yes	430917	**05-538-70C**	220.63

Costar™ Microcentrifuge Tubes

Certified RNase- and DNase-free

- Polypropylene tubes feature positive seal that allows for repeated opening and closing with flat-cap surfaces for convenient labeling; snap cap
- External graduations
- Frosted writing surfaces
- Compatible with all popular microcentrifuge rotors
- Withstand forces of 17,000 × g
- Supplied nonsterile; autoclavable
- Natural color or rainbow assortment tubes (blue, green, yellow, red and orange)

07-200 Series (racks not included)

Capacity	Color	Mfr. No.	Cat. No.	Case of
0.65mL	Natural	3208	**07-200-185**	1000/131.90
0.65mL	Rainbow	3209	**07-200-186**	1000/131.90
1.7mL	Natural	3620	**07-200-534**	500/67.40
1.7mL	Natural	3621	**07-200-535**	5000/643.50
1.7mL	Rainbow	3622	**07-200-536**	500/68.50
2.0mL	Natural	3213	**07-200-210**	1000/134.80

Eppendorf™ Snap-Cap Microcentrifuge Safe-Lock™ Tubes

Polypropylene tube with locking cap

- Hinged Safe-Lock lid prevents accidental lid opening
- Precise lid sealing for lowest evaporation rates during long-term storage
- Centrifugation stability prevents tube breaking: up to 30,000 × g for 0.5/1.5mL tubes; up to 25,000 × g for 2.0mL; and 70,000 × g possible in form-fitting rotor
- Hinged lid allows for easy, contamination-free opening
- Large, frosted lid and side surface for easy labeling
- Graduations for easy volume reference
- Guaranteed functionality between -80° to +100°C
- Autoclavable when opened (121°C, 20 min.)
- Choose from six colors, including amber, for light-sensitive samples
- Also available in batch-certified Eppendorf PCR clean and Biopur™ quality for guaranteed purity

05-402-25

ORDERING INFORMATION:
Assorted packages include 100 each of natural, blue, green, red and yellow

Color	O.D. × L [with cap]	Mfr. No.	Cat. No.	Pack of
Capacity, 0.5mL				
Natural	9 × 33mm	022 36 361 1	**05-402-18**	500/58.72
Amber	9 × 33mm	022 36 363 8	**05-402-19**	500/72.26
Blue	9 × 33mm	022 36 364 6	**05-402-20**	500/72.26
Green	9 × 33mm	022 36 365 4	**05-402-21**	500/72.26
Red	9 × 33mm	022 36 366 2	**05-402-22**	500/72.26
Yellow	9 × 33mm	022 36 367 1	**05-402-23**	500/72.26
Assorted	9 × 33mm	022 36 369 7	**05-402-4**	500/72.26
Capacity, 1.5mL				
Natural	10 × 38mm	022 36 320 4	**05-402-25**	500/54.78
Amber	10 × 38mm	022 36 322 1	**05-402-26**	500/67.75
Blue	10 × 38mm	022 36 324 7	**05-402-27**	500/67.75
Green	10 × 38mm	022 36 326 3	**05-402-28**	500/67.75
Red	10 × 38mm	022 36 328 0	**05-402-29**	500/67.75
Yellow	10 × 38mm	022 36 330 1	**05-402-30**	500/67.75
Assorted	10 × 38mm	022 36 332 8	**05-402-5**	500/67.75
Capacity, 2.0mL				
Natural	11 × 42mm	022 36 335 2	**05-402-7**	500/58.73
Amber	11 × 42mm	022 36 337 9	**05-402-8**	500/72.26
Red	11 × 42mm	022 36 343 3	**05-402-11**	500/72.26
Assorted	11 × 42mm	022 36 347 6	**05-402-6**	500/72.26

Fisher Scientific moving on Program

WE'LL MEET YOU THERE

Moving to a new lab can be exciting, but it also brings its own set of unique challenges. Let Fisher Scientific help with your fresh start! Visit **www.fishersci.com** and tell us where you are moving to and when and we'll introduce you to your new sales representative so that he or she can be there to help you get started right away. Visit **www.fishersci.com/movingon** to register your new location and we'll meet you there!

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Culture - Plastic

Fisherbrand® Nonsterile Plastic Culture Tubes

Extra-heavy wall construction is ideal for numerous testing applications

14-961-20

- Round bottom
- Special molding avoids leaks and cracks
- 12 O.D. × 75mm long tube has 5mL capacity and heavier wall than competitive tubes
- Slight lip at top provides seal when used with Cat. No. 14-961-12 Snap Cap (sold separately)

ORDERING INFORMATION:
Selected 12 × 75mm tubes available with special one-directional, oriented-box packaging (see ordering information).

Caps for 12mm and 17mm tubes available separately (14-961-12, -14, -15).

O.D. × L	Cap Style	Cat. No.	Pack of 1000	Case of
Translucent polypropylene				
12 × 75mm	Snap	**14-959-10AA**	----	1000/305.04
12 × 75mm	None	**14-959-16**	273.69	4 Pk./934.05
12 × 75mm	None	**14-959-16A** †	----	1000/285.87
12 × 75mm	None	**14-961-11**	----	5000/623.00
13 × 100mm	None	**14-956-7A**	----	1000/165.50
16 × 125mm	None	**14-956-7C**	----	1000/185.71
17 × 100mm	None	**14-956-7E**	----	1000/147.03
Clear polystyrene				
12 × 75mm	Snap	**14-961-20**	----	1000/352.00
12 × 75mm	None	**14-961-10**	331.06	4 Pk./1131.11
12 × 75mm	None	**14-961-10A**†	----	1000/284.79
12 × 75mm	None	**14-961-13**	----	5000/576.60
13 × 100mm	None	**14-956-8E**	----	1000/180.69
16 × 125mm	None	**14-956-8G**	----	1000/178.13
17 × 100mm	None	**14-956-8J**	----	1000/155.21

†Tubes are oriented in one direction within box for easier, safer use

Fisherbrand® Sterile Plastic Culture Tubes

Sterile polypropylene and polystyrene tubes

14-956-4A

Ideal for tissue culture procedures

- Gamma-irradiated and tested for sterility; ready to use
- No chance of residual contamination
- All screw-cap tubes have outside threads and unconstricted necks, making filling and pipetting easier
- All snap caps can be positioned for aerobic or anaerobic applications

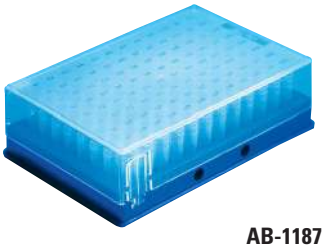
ORDERING INFORMATION:
Sterile cap 14-956-11 is available separately for 17mm tubes.

O.D. × L	Cap Supplied	Packaging	Cat. No.	Case of
Translucent polypropylene				
12 × 75mm	None	Blister pack of 125	**14-956-1B**	1000/237.13
12 × 75mm	Snap	Individually wrapped	**14-956-1C**	500/205.79
12 × 75mm	Snap	Blister pack of 25	**14-956-1D**	500/194.50
17 × 100mm	None	Blister pack of 125	**14-956-1G**	1000/258.50
17 × 100mm	Snap	Individually wrapped	**14-956-1H**	500/297.16
17 × 100mm	Snap	Blister pack of 25	**14-956-1J**	500/280.00
Clear polystyrene				
12 × 75mm	None	Bag of 125	**14-956-3A**	125/27.75
12 × 75mm	Snap	Individually wrapped	**14-956-3B**	500/176.95
12 × 75mm	Snap	Blister pack of 25	**14-956-3C**	500/174.70
12 × 75mm	Snap	Bag of 125	**14-956-3D**	1000/276.89
13 × 100mm	Screw	Blister pack of 125	**14-956-4A**	1000/479.00
16 × 125mm	Screw	Individually wrapped	**14-956-5A**	500/343.00
16 × 125mm	Screw	Blister pack of 125	**14-956-5B**	1000/593.50
16 × 150mm	Screw	Individually wrapped	**14-956-5C**	500/326.50
17 × 100mm	None	Blister pack of 125	**14-956-6C**	1000/207.00
17 × 100mm	Snap	Individually wrapped	**14-956-6A**	500/218.50
17 × 100mm	Snap	Blister pack of 25	**14-956-6D**	500/188.70
17 × 100mm	Snap	Blister pack of 125	**14-956-6B**	1000/329.00

Thermo Scientific™ ABgene™ 2DCypher™ 0.65mL Cluster Tube Racks

Available packaged in low profile rack

- Rack features a square well entrance for maximum placement area
- Tubes are supported at the base while still allowing scanning of codes in the rack
- High-throughput with individual sample identification
- Flat V internal well minimizes dead volume
- Lockable sealable lid
- Temperature range -170°C to +120°C
- Alphanumeric grid referencing molded into rack lid
- Grid-referenced racks have an alphanumeric grid-reference that corresponds to the tube's position in the rack
- Available in heavy-duty rack (10 racks of 96 per pack) in microplate format with SBS footprint



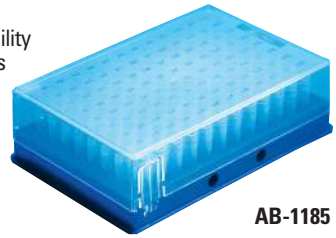
AB-1187

Description	Plug Type	Cat. No.	Price
10 Racks of 96 tubes	Septa	**AB-1187**	935.50

Thermo Scientific™ ABgene™ 2DCypher™ 1.2mL Cluster Tubes and Racks, MK5

MK5 rack features a tapered well entrance to aid tube placement

- Stacking shoulders have been removed from rack for compatibility with certain robotic instruments
- With rounded end caps
- High-throughput with individual sample identification
- Labeled with a Data Matrix™ and human readable code encapsulated in clear polypropylene window
- Over 3.6×10^{15} unique code combinations
- Lockable, sealable lid
- Temperature range -170°C to +120°C
- Alphanumeric grid referencing molded into rack lid



AB-1185

Description	Plug Type	Mfr. No.	Cat. No.	Price
10 Racks of 96 tubes	None	AB-1185	**AB-1185**	643.00

BD Falcon™ Round-Bottom Polypropylene Tubes

Can be centrifuged to approximately 3000×G

- All 17 × 100mm polypropylene tubes have printed graduations from 0.5 to 14mL in 0.5mL increments
- Include solvent-resistant white writing patch
- Widely referenced in published laboratory procedures and protocols (e.g., Molecular Cloning, 2nd ed., T. Maniatis et al.)
- Available with heavyweight, durable, dual-position snap cap for easy handling; with screw cap or without cap
- All sizes supplied sterile; 12 × 75mm size without cap also available nonsterile
- Individual packages use medical-style packaging materials and allow aseptic access

14-959 Series

ORDERING INFORMATION: Snap caps also available separately

BIO Packaging	Capacity	Quantity	Mfr. No.	Cat. No.	Case of
With snap cap					
Indiv. wrapped	14.0mL	Cs. of 500	352006	**14-959-10B**	500/238.00
Bag of 25	5.0mL	Cs. of 500	352063	**14-959-11A**	500/171.95
Bag of 25	14.0mL	Cs. of 500	352059	**14-959-11B**	500/232.45
Without cap					
Bag of 125	5.0mL	Cs. of 1000	352053	**14-959-12B**	1000/238.00
Bag of 125	14.0mL	Cs. of 500	352018	**14-959-12A**	1000/215.19
Bag of 1000	5.0mL	Cs. of 1000	352002	**14-959AA**	1000/69.32

Falcon™ Round-Bottom Polystyrene Tubes

Polystyrene, round bottom. Can be centrifuged to approximately 1400×g

- Individual packages use medical-style packaging materials and allow aseptic access
- Widely referenced in published laboratory procedures and protocols (e.g., Molecular Cloning, 2nd ed., T. Maniatis et al.)
- Available with heavyweight, durable, dual-position snap cap for easy handling; with screw cap or without cap
- All sizes supplied sterile; 12 × 75mm size without cap also available nonsterile

14-959 Series

O.D. × L	Capacity	Packaging	Mfr. No.	Cat. No.	Case of
With snap cap					
0.47 × 2.95" (12 × 75mm)	0.16 oz. (5.0mL)	Indiv. wrapped	352003	**14-959A**	500/157.29
0.47 × 2.95" (12 × 75mm)	0.16 oz. (5.0mL)	Bag of 25	352058	**14-959-1A**	500/155.66
0.47 × 2.95" (12 × 75mm)	0.16 oz. (5.0mL)	Bag of 125	352054	**14-959-2A**	1000/247.02
0.66 × 3.93" (17 × 100mm)	0.47 oz. (14.0mL)	Indiv. wrapped	352001	**14-959B**	500/188.04
0.66 × 3.93" (17 × 100mm)	0.47 oz. (14.0mL)	Bag of 25	352057	**14-959-1B**	500/164.49
0.66 × 3.93" (17 × 100mm)	0.47 oz. (14.0mL)	Bag of 125	352051	**14-95977**	1000/292.63
With screw cap					
0.51 × 3.93" (13 × 100mm)	0.27 oz. (8.0mL)	Bag of 125	352027	**14-959-38C**	1000/419.60
0.62 × 4.92" (16 × 125mm)	0.54 oz. (16.0mL)	Indiv. wrapped	352037	**14-959-42**	500/267.12
0.62 × 4.92" (16 × 125mm)	0.54 oz. (16.0mL)	Bag of 125	352025	**14-959-38B**	1000/509.23
0.62 × 5.90" (16 × 150mm)	0.64 oz. (19.0mL)	Indiv. wrapped	352045	**14-959-40B**	500/301.23
Without cap					
0.47 × 2.95" (12 × 75mm)	0.16 oz. (5.0mL)	1000/Cs.	352052	**14-959-6**	1000/151.86
0.47 × 2.95" (12 × 75mm)	0.16 oz. (5.0mL)	Bulk pack	352008	**14-959-5**	1000/73.07
0.66 × 3.93" (17 × 100mm)	0.47 oz. (14.0mL)	Bag of 125	352017	**14-959-8**	1000/180.90

Falcon™ Sterile Polyethylene Snap Caps

For Falcon Round-Bottom Tubes

- Dual position: loose for aerobic culturing, tight for sealing

ORDERING INFORMATION:
Supplied in bags of 500; case of four bags.

14-959-48

For Tube O.D. × L	Cap I.D.	Mfr. No.	Cat. No.	Case of 2000
12 × 75mm	12mm	352032	**14-959-48**	223.31

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ Polystyrene Disposable Culture Tubes

Available treated or untreated

- Tissue culture-treated tubes are available in polyfoam racks of 50 tubes; untreated tubes are bulk packed 25 per pack
- Reference mark on tubes helps position cap
- Sterile
- O.D. × L: 16 × 125mm

INCLUDES:
Plug-seal screw caps

14-959 Series

Type of Tube	Mfr. No.	Cat. No.	Case of 500
Treated	430172	**14-959-15**	475.74
Untreated	430157	**14-959-14**	476.36

Corning™ Costar™ Brand Cluster Tube System

Ideal for harvesting cells, cell uptake and receptor binding assays and radioimmunoassays

- Convenient for large-volume transfer and collection from microtitration plates
- Useful with single- and multichannel pipetters and in robotic workstations and centrifuges
- 1.2mL individual tubes or breakaway strips of eight tubes; microtitration plate format
- Assembled in 12- or 96-tube racks
- Both tubes and racks are autoclavable clarified polypropylene

07-200-300 Series

APPLICATIONS:
Ideal for harvesting cells, cell uptake and receptor binding assays and radioimmunoassays

Type	Sterile	Rack	Mfr. No.	Cat. No.	Case of
96 per rack					
Individual	No	No	4401	**07-200-317**	960/73.70
Individual	No	Yes	4410	**07-200-319**	960/153.70
Individual	Yes	Yes	4411	**07-200-320**	960/162.10
12 per rack					
8-strip	No	No	4408	**07-200-318**	960/88.40
8-strip	No	Yes	4412	**07-200-321**	960/164.40
8-strip	Yes	Yes	4413	**07-200-322**	960/173.06

Fisherbrand® Printed Disposable Culture Tubes

Ideal for tissue culture procedures

- Gamma-irradiated and tested for sterility
- Printed graduations
- White writing area
- Round-bottom tubes made of polypropylene
- Blue snap cap made of polyethylene
- Snap caps can be positioned for aerobic or anaerobic applications
- 14mL volume

Fisherbrand Culture Tubes

Cap Supplied	Packaging	Cat. No.	Case of
No	Tray of 125	**14-956-9A**	1000/177.50
Yes	Individually Wrapped	**14-956-9B**	500/184.20
Yes	Tray of 25	**14-956-9C**	500/187.50

Fisherbrand® Printed Disposable Culture Tube Caps

- Caps snap tight to prevent sample loss
- Blue polyethylene
- Sterile
- 500/bag (2,000/case)

Cat. No.	Case of
14-956-9G	2000/190.00

Culture - Glass

Disposable Tubes

Fisherbrand® Disposable Borosilicate Glass Tubes with Polypropylene Screw Cap

Provides chemical stability and biological inertness of hard, borosilicate glass — at price of disposable tubes

- With natural linerless polypropylene screw cap and marking spot

APPLICATIONS:
Ideal for tissue culture, bacteriology, clinical chemistry, blood typing and crossmatching procedures

14-962-26 Series

ORDERING INFORMATION:
Packed in trays of 500 or 250

O.D. × L	No. Per Tray	Cat. No.	Case of
13 × 100mm	500	**14-962-26D**	1000/384.00
16 × 100mm	250	**14-962-26F**	1000/421.50
16 × 125mm	250	**14-962-26G**	1000/452.50
16 × 150mm	250	**14-962-26H**	1000/498.00
20 × 125mm	250	**14-962-26K**	500/343.50
20 × 150mm	250	**14-962-26M**	500/379.50

Fisherbrand® Disposable Borosilicate Glass Tubes with Threaded End

Available with or without marking spot

ORDERING INFORMATION:
13 O.D. × 100mm long tubes supplied in shrink-wrapped shelf trays of 500; all other sizes come in trays of 250, without cap order separately

14-959-35A

O.D. × L	GPI Thread	Cat. No.	Case of
With marking spot			
16 × 125mm	15-415	**14-959-35A**	1000/374.50
Without marking spot			
16 × 150mm	15-415	**14-957-76C**	1000/405.00
20 × 150mm	18-415	**14-957-76E**	500/305.00

Fisherbrand® Disposable Borosilicate Glass Tubes with Plain End

Made of borosilicate glass to reduce pH changes and contaminants potentially leached from soda lime glass

- Ideal for tissue culture and clinical chemistry
- Packaged in shrink-wrapped trays of 250 or 125 to prevent contamination or breakage; 10 and 12mm O.D. sizes are suitable for cell washing procedures

14-961 Series

O.D. × L	No. Per Tray	Cat. No.	Case of
10 × 75mm	250	**14-961-25**	1000/94.70
12 × 75mm	250	**14-961-26**	1000/96.70
13 × 100mm	250	**14-961-27**	1000/102.90
15 × 85mm	250	**14-961-28**	1000/120.30
16 × 100mm	250	**14-961-29**	1000/140.20
16 × 125mm	250	**14-961-30**	1000/160.70
16 × 150mm	250	**14-961-31**	1000/168.60
18 × 150mm	125	**14-961-32**	500/107.40
20 × 150mm	250	**14-961-33**	500/168.50
25 × 150mm	125	**14-961-34**	500/237.00

Fisherbrand® Screw Caps for Disposable Glass Tubes

Phenolic caps have cemented-in rubber liners

- Autoclavable
- Polypropylene cap is linerless

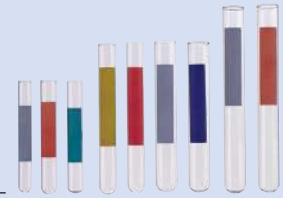
14-957-82 Series

GPI Thread	Material	Cat. No.	Case of 1000
13-415	Phenolic	**14-957-82A**	125.60
15-415	Phenolic	**14-959-36A**	140.40
15-415	Polypropylene	**14-959-36B**	109.10
18-415	Phenolic	**14-957-82E**	181.00

Fisherbrand® Disposable Plain-End Glass Tubes with Color-Coded Label Area

End problem of lost or peeling labels

- Fused-in, textured, color patches accept any type of ink or pencil
- Expose to heat, steam, hours in a water bath, without affecting label
- Marking area is large enough for all necessary information — 1.37" (for 10 and 12mm O.D. tubes) or 2" (for 13 and 16mm O.D. tubes) long labeling area in five pastel colors
- Flint or borosilicate glass
- Round bottom



14-957 Series

	Flint Glass		Borosilicate Glass	
Label Color	**Cat. No.**	**Case of 1000**	**Cat. No.**	**Case of 1000**
10 O.D. × 75mm long				
White	**14-957-10A**	99.40	**14-957-20A**	105.80
Yellow	**14-957-10B**	99.40	**14-957-20B**	105.80
Green	**14-957-10C**	99.50	**14-957-20C**	105.80
Orange	**14-957-10D**	99.50	**14-957-20D**	105.80
Blue	**14-957-10E**	99.50	**14-957-20E**	105.80
12 O.D. × 75mm long				
White	**14-957-12A**	98.50	**14-957-22A**	116.70
Yellow	**14-957-12B**	99.80	**14-957-22B**	116.70
Green	**14-957-12C**	100.00	**14-957-22C**	116.70
Orange	**14-957-12D**	100.00	**14-957-22D**	116.70
Blue	**14-957-12E**	100.00	**14-957-22E**	116.70
13 O.D. × 100mm long				
White	**14-957-14A**	119.10	**14-957-24A**	139.50
Yellow	**14-957-14B**	119.10	**14-957-24B**	139.50
Green	**14-957-14C**	119.10	**14-957-24C**	139.30
Orange	**14-957-14D**	119.10	**14-957-24D**	139.50
Blue	**14-957-14E**	119.10	**14-957-24E**	139.50
16 O.D. × 100mm long				
White	**14-957-16A**	147.20	**14-957-26A**	172.60
Yellow	**14-957-16B**	147.20	**14-957-26B**	172.60
Green	**14-957-16C**	147.20	**14-957-26C**	172.60
Blue	**14-957-16E**	147.20	**14-957-26E**	172.60
16 O.D. × 125mm long				
Orange	**14-957-18D**	177.30	---	---
Blue	**14-957-18E**	177.30	---	---

Fisherbrand® Disposable Heavy-Wall Borosilicate Glass Tubes

Chemically clean, fully annealed

- Plain end
- Round bottom

14-958-10A

ORDERING INFORMATION:
Case of 1000 contains four lint-free trays

O.D. × L	Cat. No.	Case of 1000
10 × 75mm	**14-958-10A**	99.10
12 × 75mm	**14-958-10B**	103.00
13 × 100mm	**14-958-10C**	121.30

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Disposable Flint Glass Tubes with Plain End

Specially annealed to reduce breakage along stress point

- Round bottom
- Smooth top and bottom prevent cuts

14-958A

ORDERING INFORMATION:
Packed in trays

O.D. × L	No. Per Tray	Cat. No.	Case of
6 × 50mm	500	**14-958A**	1000/75.90
10 × 75mm	250	**14-958B**	1000/68.60
12 × 75mm	250	**14-958C**	1000/72.60
13 × 100mm	250	**14-958D**	1000/93.20
15 × 85mm	250	**14-958E**	1000/144.70
16 × 100mm	250	**14-958F**	1000/117.30
16 × 125mm	250	**14-958G**	1000/148.00
16 × 150mm	250	**14-958H**	1000/159.70
18 × 150mm	125	**14-958J**	500/131.30
20 × 150mm	250	**14-958K**	500/150.90

Kimble-Chase Disposable Borosilicate Glass Tubes with Threaded End

With round bottom

- For tissue culture work and general bacteriological use
- Comply with ASTM™ E 438, Type I, Class B glass requirements
- Shrink-wrapped in modular trays
- Without closure

14-957-76F

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Case of 1000
16 × 100mm	15-415	73770-16100	**14-957-76F**	375.00

Kimble-Chase Disposable Borosilicate Glass Tubes with Threaded End

With flat bottom

- Stand without support
- For tissue culture work and general bacteriological use
- Comply with ASTM™ E 438, Type I, Class B glass requirements
- Shrink-wrapped in modular trays
- Without closure

14-957-88A

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Case of 1000
16 × 125mm	15-415	73760-16125	**14-957-88A**	563.00

Kimble-Chase Screw Caps for Disposable Glass Tubes

Linerless, one-piece closures with inner sealing ring

- Polypropylene
- Autoclavable

03-340-77 Series

COMPLIANCE:
Designed from ASTM™ E 982

GPI Thread	Mfr. No.	Cat. No.	Case of
13-415	73805B 13415	**03-340-77C**	1000/94.60
15-415	73805B 15415	**03-340-77D**	1000/101.20
18-415	73805B 18415	**03-340-77E**	500/57.20

Kimble-Chase Kimax™ Disposable Glass Tubes

Designed from ASTM™ Specification E 890

- Premium quality tubes with sturdy, uniform bottoms and consistent lengths
- Borosilicate glass KIMAX-51™ composition ensures outstanding all-around chemical durability
- Excellent chemical resistance against sodium leaching
- 10 × 75mm and 12 × 75mm sizes are suitable for cell washing procedures and fit into Kimble-Chase 73510 stainless-steel dispensers
- 6 × 50mm size is often referred to as a "Durham tube"

03-341

ORDERING INFORMATION:
Tubes are packed in convenient trays for ease of use on benchtops and in drawers. Trays are shrink wrapped in plastic film with tubes remaining in constant alignment for protection against in-transit breakage and contamination. Tubes come in cases of 1000 except 14-957-96J and 14-957-96K, which come in cases of 500.

COMPLIANCE:
Complies with ASTM Specification E438, Type I, Class B glass requirements

O.D. × L	Mfr. No.	Cat. No.	Case of
6 × 50mm	73500-650	**14-957-90E**	1000/88.70
10 × 75mm	73500-1075	**03-341-0**	1000/93.00
12 × 75mm	73500-1275	**03-341-1**	1000/99.50
13 × 100mm	73500 13100	**03-341-3**	1000/109.40
16 × 100mm	73500-16100	**03-341-4**	1000/137.20
16 × 125mm	73500-16125	**03-341-5**	1000/165.50
16 × 150mm	73500-16150	**03-341-6**	1000/156.60
18 × 150mm	73500-18150	**14-957-96J**	500/125.10
20 × 150mm	73500-20150	**14-957-96K**	500/194.90

ACCESSORIES

KimKap™ Disposable Closures

Available in natural (clear) or choice of four colors

- For plain-end culture tubes
- Keep tube contents sterile without need for cotton plugging
- Polypropylene
- Autoclavable

NOTES: Caps for 38mm O.D. are designed for baffled culture flasks.

14-957 Series

For O.D.	Mfr. No.	Cat. No.	Case of	Mfr. No.	Cat. No.	Case of
	Red			***Green***		
13mm	73662 13	**14-957-92**	1000/92.45	73663 13	**14-957-92A**	1000/92.56
16mm	73662 16	**14-957-92D**	1000/96.02	73663 16	**14-957-92E**	1000/95.92
18mm	73662 18	**14-957-92H**	1000/110.63	73663 18	**14-957-92J**	1000/110.63
20mm	73662 20	**14-957-92M**	500/93.92	73663 20	**14-957-92N**	500/93.92
25mm	73662 25	**14-957-92R**	500/119.56	73663 25	**14-957-92S**	500/119.56
	Yellow			***Natural***		
13mm	73664 13	**14-957-92B**	1000/92.45	73660 13	**14-957-91**	1000/79.64
16mm	73664 16	**14-957-92F**	1000/96.02	73660 16	**14-957-91A**	1000/85.83
18mm	73664 18	**14-957-92K**	1000/110.73	73660 18	**14-957-91B**	1000/95.50
20mm	73664 20	**14-957-92P**	500/93.92	73660 20	**14-957-91C**	500/81.63
25mm	73664 25	**14-957-92T**	500/119.56	73660 25	**14-957-91D**	500/108.00
38mm	---	---	---	73660 38	**14-957-91E**	250/125.44
	Blue					
13mm	73665 13	**14-957-92C**	1000/92.45	----	----	----
16mm	73665 16	**14-957-92G**	1000/95.92	----	----	----
18mm	73665 18	**14-957-92L**	1000/110.63	----	----	----
20mm	73665 20	**14-957-92Q**	500/95.30	----	----	----
25mm	73665 25	**14-957-92V**	500/119.56	----	----	----

Pyrex™ Brand Disposable Culture Tubes with Threaded End

Ideal for tissue culture and general bacteriological work

- Available with round or flat bottoms
- With threaded finish for screw cap

ORDERING INFORMATION:
Without closure; order separately

14-957 Series

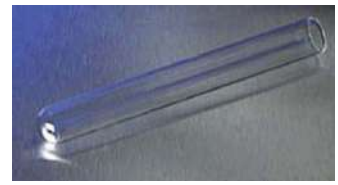
O.D. × L	G.P.I. Thread	Mfr. No.	Cat. No.	Case of
Round Bottom				
13 × 100mm	13-415	99449 13	**14-957-86C**	1000/409.50
16 × 100mm	15-415	99449 16	**14-957-86D**	1000/433.50
16 × 125mm	15-415	99449 16X	**14-957-1A**	1000/445.50
20 × 125mm	18-415	99449 20	**14-957-86E**	500/323.00
Flat Bottom				
16 × 125mm	15-415	99448 16	**14-957-86A**	1000/551.00
19.5 × 145mm	18-415	99448 19	**14-957-86B**	500/364.00

Pyrex™ Brand Disposable Round-Bottom Rimless Glass Tubes

Designed for both tissue culture and general bacteriological work

Borosilicate glass reduces pH changes and contaminants

- Packaged in easy-to-open and use packs



Rimless Glass Tubes

Capacity	O.D. × L	Mfr. No.	Cat. No.	Case of
4mL	10 × 75mm	99445-10	**14-962-15A**	1000/85.91
6mL	12 × 75mm	99445-12	**14-962-1C**	1000/93.76
10mL	13 × 100mm	99445-13	**14-962-15C**	1000/103.12
11mL	15 × 85mm	99445-15	**22-255-312**	1000/124.00
15mL	16 × 100mm	99445-16	**14-962-15E**	1000/137.73
19mL	16 × 125mm	99445-16X	**14-962-15F**	1000/161.98
23mL	16 × 150mm	99445- 16XX	**14-962-1B**	1000/220.64
28.5mL	18 × 150mm	99445 18	**C99445-18**	500/140.15
36mL	20 × 150mm	99445-20	**14-962-1A**	500/202.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Reusable Tubes

Fisherbrand® Color-Coded TainerTop™ Safety Closures

Seven colors correspond to Vacutainer™ cap colors, ensuring easy identification

Recap blood drawing tubes, disposable glass test tubes and plastic culture tubes. Protect from aerosols of highly infectious organisms such as TB and the HTLV-III virus. Guard samples against cross-contamination and lab work areas against infectious agents and mess.

- Polyethylene
- Information can be written directly on cap with indelible ink
- Ensure integrity of serum samples after freezing or en route to reference labs
- Don't require precutting
- Won't pop or crack when frozen
- Provide liquid-tight seal — will not aerosol when opened
- Hold fast under most rigorous procedures including agitation, centrifugation, refrigeration and freezing
- Flexible closures are not autoclavable

14-376 Series

	For 12mm Culture Tubes and 13mm Blood Collection Tubes			For 13mm Culture Tubes			For 16mm Tubes		
Color	Cat. No.	Pack of 1000	Case of 10 Packs	Cat. No.	Pack of 1000	Case of 10 Packs	Cat. No.	Pack of 1000	Case of 10 Packs
White	**14-376-74**	109.71	950.58	**14-376-69**	109.61	950.27	**14-376-83**	110.74	960.48
Red	**14-376-75**	109.71	950.58	**14-376-70**	109.61	950.27	**14-376-84**	110.74	960.48
Lavender	**14-376-76**	109.71	950.58	**14-376-71**	109.61	950.27	**14-376-85**	110.74	960.48
Green	**14-376-77**	109.71	950.58	**14-376-72**	109.61	950.27	**14-376-86**	110.74	960.48
Blue	**14-376-78**	109.71	950.58	**14-376-73**	109.61	950.27	**14-376-87**	110.74	960.48
Gray	----	----	----	**14-376-67**	109.61	950.27	----	----	----
Yellow	**14-376-80**	109.71	950.58	**14-376-88**	109.61	950.27	**14-376-82**	110.74	960.48

Fisherbrand® Reusable Glass Tubes with Phenolic Screw Caps

Phenolic screw cap with white rubber liner

- High-quality borosilicate glass
- Marking spot

ORDERING INFORMATION:
Packed in shrink-wrapped, lint-free trays

14-959-25A

O.D. × L	GPI Thread	No. Per Tray	Cat. No.	Case of
13 × 100mm	13-415	500	**14-959-25A**	1000/445.00
16 × 100mm	15-415	250	**14-959-25B**	1000/443.00
16 × 125mm	15-415	250	**14-959-25C**	1000/475.50
16 × 150mm	15-415	250	**14-959-25D**	1000/500.00
20 × 125mm	18-415	250	**14-959-25E**	500/372.50
20 × 150mm	18-415	250	**14-959-25F**	500/411.00

ACCESSORIES

Fisherbrand® Sav-It™ Tube Closures

Firm, leak-resistant seals protect personnel and samples

- One-hand application
- Can be punctured for through-cap sampling via closed-tube instrumentation systems
- Won't interfere with most common chemistry, coagulation, and drug monitoring methodologies
- Fit test tubes, centrifuge tubes, specialty tubes, and evacuated blood drawing tubes
- Direct through-cap sampling via closed-tube instrumentation systems
- Won't crack or fall off
- Hold fast under most rigorous procedures including agitation, centrifugation, refrigeration, and freezing

02-707 Series

	16mm Closures			12 or 13mm Closures		
Color	Cat. No.	Pack of 1000	Case of 10 Packs	Cat. No.	Pack of 1000	Case of 10 Packs
Red	**02-707-1**	111.50	992.00	**02-707-9**	111.50	992.00
Green	**02-707-2**	111.50	992.00	**02-707-10**	111.50	992.00
Lavender	**02-707-3**	111.50	992.00	**02-707-11**	111.50	992.00
Black	**02-707-4**	111.50	992.00	**02-707-12**	111.50	992.00
Blue	**02-707-5**	111.50	992.00	**02-707-13**	111.50	992.00
Gray	**02-707-6**	111.50	992.00	**02-707-14**	111.50	992.00
Yellow	**02-707-7**	111.50	992.00	**02-707-15**	111.50	992.00
White	**02-707-8**	111.50	992.00	**02-707-16**	111.50	992.00

Fisherbrand® Reusable Glass Rim Top Culture Tubes

Uniform wall thickness for maximum heat transfer and chemical resistance

- Made from KG-33 borosilicate glass Durable, white ceramic enamel marking spot
- Fire-polished top rim

FB-700-1275

COMPLIANCE:
Designed from ASTM™ Specification E 982, Type IV requirements

Capacity	O.D. × L	Cat. No.	Pack of	Case of
6mL	12 × 75mm	**FB-700-1275**	72/45.90	10 Pk./339.50
10mL	13 × 100mm	**FB-700-13100**	72/48.55	10 Pk./359.00
20mL	16 × 125mm	**FB-700-16125**	72/56.90	8 Pk./341.50
24mL	16 × 150mm	**FB-700-16150**	72/65.60	8 Pk./403.00
28mL	18 × 150mm	**FB-700-18150**	72/74.50	8 Pk./457.50
55mL	25 × 150mm	**FB-700-25150**	36/118.33	4 Pk./364.12

Kimble-Chase Kimax™ Reusable Tube with Brown Graduations

With permanently fused brown scale

10-310-200

- 10mL tube is graduated every 0.1mL from 0.5 to 10mL
- Reinforced bead

O.D. × L	Mfr. No.	Cat. No.	Each
16 × 125mm	46350-10	**10-310-200**	54.20

Kimble-Chase Kimax™ Reusable Borosilicate Glass Tubes

With permanently fused brown scale

Culture tubes made from KG-33 glass feature fire-polished top rim and uniform wall thickness for maximum heat transfer and chemical resistance. Designed from ASTM™ specification E982, Type IV requirements

Tubes with Plain End

Without marking spot

14-925 Series

O.D. × L	Mfr. No.	Cat. No.	Pack of
6 × 50mm	45060 650	**14-925B**	72/27.84
13 × 100mm	45060 13100	**14-925E**	72/51.27
16 × 150mm	45060 16150	**14-925J**	72/64.51
19 × 150mm	45060 19150	**14-925K**	72/64.93
25 × 150mm	45060 25150	**14-925M**	72/120.08
25 × 200mm	45060 25200	**14-925N**	24/43.91

Tubes with Plain End and Marking Spot

With durable white ceramic marking spot

14-923 Series

- Fire-polished top rim
- Uniform wall thickness for maximum heat transfer and chemical resistance
- Culture tubes made from KG-33 glass feature fire-polished top rim and uniform wall thickness for maximum heat transfer and chemical resistance
- Designed from ASTM™ specification E982, Type IV requirements

O.D. × L	Mfr. No.	Cat. No.	Pack of
10 × 75mm	45048-1075	**14-923B**	72/52.20
12 × 75mm	45048-1275	**14-923C**	72/52.64
13 × 100mm	45048-13100	**14-923D**	72/55.68
15 × 125mm	45048-15125	**14-923F**	72/66.10
16 × 100mm	45048-16100	**14-923H**	72/68.60
16 × 125mm	45048-16125	**14-923J**	72/66.08
16 × 150mm	45048-16150	**14-923K**	72/79.74
18 × 150mm	45048-18150	**14-923L**	72/88.04
20 × 150mm	45048-20150	**14-923W**	576/612.00
25 × 150mm	45048-25150	**14-923P**	72/168.31
25 × 250mm	45048-25250	**14-923R**	144/604.50

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Prices subject to change.

Kimble-Chase Kimax™ Reusable Test Tubes

Reusable Test Tubes with Beaded Rim

Made from N-51A borosilicate glass

14-915 Series

- Uniform wall thickness for maximum heat transfer and chemical resistance

O.D. × L	Mfr. No.	Cat. No.	Pack of	Case of
19 × 150mm	19150	**14-915E**	72/73.35	8 Pk./428.12
25 × 150mm	25150	**14-915G**	72/122.66	4 Pk./358.42
25 × 200mm	25200	**14-915H**	24/45.57	8 Pk./266.34

Reusable Test Tubes with Beaded Rim and Marking Spot

Marking spot is durable fused-on white enamel

14-956 Series

O.D. × L	Mfr. No.	Cat. No.	Pack of	Case of
10 × 75mm	45042-1075	**14-956A**	72/55.35	10 Pk./402.11
12 × 75mm	45042-1275	**14-956B**	72/55.40	10 Pk./408.00
13 × 100mm	45042-13100	**14-956C**	72/61.38	10 Pk./445.81
15 × 125mm	45042-15125	**14-956D**	72/79.20	10 Pk./584.50
16 × 150mm	45042-16150	**14-956E**	72/83.02	8 Pk./483.27
18 × 150mm	45042-18150	**14-956F**	72/100.81	8 Pk./586.78
20 × 150mm	45042-20150	**14-956G**	72/114.13	8 Pk./663.78
25 × 150mm	45042-25150	**14-956K**	72/180.61	4 Pk./526.44
25 × 200mm	45042-25200	**14-956L**	24/69.19	8 Pk./402.64

Reusable Tubes with Rubber-Lined Screw Cap

Black phenolic cap with inert rubber liner

- White marking spot
- Cat. No. 14-930C tube is suitable for determination of insulin according to method of Alving, Rubin and Millor (Journal of Biological Chemistry [1939], 127, 3)

14-930 Series

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Pack of	Case of 4 Pk.
13 × 100mm	13-415	45066-13100	**14-930AA**	72/155.70	454.91
16 × 100mm	15-415	45066-16100	**14-930BB**	72/218.00	636.14
16 × 125mm	15-415	45066-16125	**14-930A**	72/218.00	635.61
16 × 150mm	15-415	45066-16150	**14-930B**	72/220.63	642.97
20 × 125mm	18-415	45066-20125	**14-930C**	48/178.92	522.15
20 × 150mm	18-415	45066-20150	**14-930D**	48/204.13	596.22
25 × 150mm	24-410	45066-25150	**14-930E**	36/165.78	484.33
25 × 200mm	24-410	45066-25200	**14-930F**	36/187.22	546.84
38 × 200mm	38-430	45066-38200	**14-930G**	24/329.89	----

Reusable Tubes with PTFE-Faced Rubber-Lined Screw Cap

Black phenolic cap with PTFE-faced rubber liner

- White marking spot
- Black phenolic cap

14-930 Series

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Pack of	Case of 4 Pk.
13 × 100mm	13-415	45066A-13100	**14-930-10A**	72/211.17	607.25
16 × 100mm	15-415	45066A-16100	**14-930-10B**	72/229.03	659.25
16 × 125mm	15-415	45066A-16125	**14-930-10E**	72/251.09	722.29
16 × 150mm	15-415	45066A-16150	**14-930-10F**	72/271.58	780.60
20 × 125mm	18-415	45066A-20125	**14-930-10G**	48/227.46	653.47
20 × 150mm	18-415	45066A-20150	**14-930-10**	192/693.40	----
25 × 150mm	24-410	45066A-25150	**14-930-10J**	36/213.80	615.13
25 × 200mm	24-410	45066A-25200	**14-930-10L**	144/670.81	----

ACCESSORIES

Kimble-Chase Black Phenolic Screw Caps

Bond between liner and cap retains adhesive properties even after repeated autoclaving

With PTFE-faced rubber liner

- Identified in ASTM™ specification E 982-94, Class B requirements

With 14B rubber liner (SBR)

- Has fewer threads than regular GPI caps for easier application and removal
- Not recommended for use with standard GPI finishes usually found on blown-molded bottles
- Identified in ASTM specification E 982-94, Class A requirements

14-930-14G

GPI Thread	Mfr. No.	Cat. No.	Case of
With PTFE-Faced Rubber Liner			
13-415	**45066C-13**	**14-930-15D**	300/326.21
15-415	**45066C-15**	**14-930-15E**	300/334.00
24-410	**45066C-24**	**14-930-15J**	150/348.80
With 14B Rubber Liner (SBR)			
38-430	**45066B-38**	**14-930-14G**	150/443.50

Kimble-Chase Black Phenolic Screw-Thread Closures

Highly resistant to temperature and steam during autoclaving

- Cemented-in PTFE-faced 14B white rubber liner
- Three screw-thread finishes

05-569-4

For Tubes	GPI Thread	Mfr. No.	Cat. No.	Case of
05-569-1	13-415	73802 13415	**05-569-4**	500/110.52
05-569-2, -3	15-415	73802 15415	**05-569-5**	500/117.77
05-538-41A	22-400	73802 22400	**06-421-20**	144/178.80

Kimble-Chase Kontes™ Screw Thread Culture Tubes with Unattached Rubber Lined Caps

Uniform wall thickness for maximum heat transfer and heat resistance

12-141-356

Kimble-Chase KimCote™ plastic-coated glassware provides an added measure of safety in the event of breakage

- KG-33 borosilicate glass
- Designed from ASTM™ E982, Type VI, Class A requirements
- Thread finish complies with Glass Packaging Institute (GPI) requirements
- Cap is not attached

O.D. × L	Capacity to Neck	GPI Thread Finish	Mfr. No.	Cat. No.	Case of
13 × 100mm	8mL	13-415	45066-13100	**12-141-356**	144/423.50
16 × 125mm	16mL	15-415	45066-16125	**12-141-357**	144/571.41
25 × 150mm	50mL	24-410	45066-25150	**12-141-359**	48/447.50

Pyrex™ Brand Reusable Glass Tubes with Rubber-Lined Caps

Deep-form phenolic caps facilitate handling and sealing after autoclaving

14-932 Series

- Caps are fabricated from a special formula resistant to the effects of temperature and steam in autoclaving
- White enamel marking spot gives an excellent surface for pencil notations; pencil marks are easily erased
- Black phenolic cap resists effects of temperature and steam in autoclaving

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Pack of	Case of
13 × 100mm	13-415	9825-13	**14-932-1A**	144/302.50	2 Pk./448.50
16 × 100mm	15-415	9825-16	**14-932-1B**	144/413.00	2 Pk./615.00
16 × 125mm	15-415	9825-16X	**14-932A**	144/414.00	2 Pk./617.00
16 × 150mm	15-415	9825-16XX	**14-932B**	144/412.63	2 Pk./600.33
20 × 125mm	18-415	9825-20	**14-932C**	96/337.66	2 Pk./491.18
20 × 150mm	18-415	9825-20X	**14-932D**	96/382.50	2 Pk./570.50
22 × 175mm	18-415	9825-22	**14-932-1C**	192/760.99	----
25 × 150mm	24-410	9825-25	**14-932E**	48/217.50	3 Pk./484.00
25 × 200mm	24-410	9825-25X	**14-932F**	48/248.00	3 Pk./555.00
38 × 200mm	38-430M	9825-38	**14-932-1D**	12/213.20	4 Pk./618.18

Pyrex™ Brand Reusable Test Tubes

Reusable Borosilicate Glass Tubes with Plain End

All sizes except 6, 22 and 25mm O.D. have marking spot

14-957 Series

- Rimless, round-bottom tubes provide greater convenience for plugging and rack storage
- Walls and bottom are of uniform thickness
- Ends are fire-polished

O.D.× L	Mfr. No.	Cat. No.	Pack of
6 × 50mm	9820 6	**14-957AA**	72/50.10
10 × 75mm	9820 10	**14-957A**	72/52.10
12 × 75mm	9820 12	**14-957B**	72/53.30
13 × 100mm	9820 13	**14-957C**	72/55.30
16 × 100mm	9820 16	**14-957E**	576/408.50
16 × 125mm	9820 16X	**14-957F**	72/66.50
16 × 150mm	9820 16XX	**14-957G**	72/80.70
18 × 150mm	9820 18	**14-957H**	72/87.90
20 × 150mm	9820 20	**14-957J**	72/100.70
22 × 175mm	9820 22	**14-957K**	432/713.55
25 × 150mm	9820 25	**14-957M**	72/168.60
25 × 200mm	9820 25X	**14-957N**	48/146.80

Reusable Test Tubes with Beaded Rim

Sizes from 10 to 20mm O.D. have marking spot

- Fire-polished, beaded rim
- Ungraduated

14-955 Series

O.D. × L	Mfr. No.	Cat. No.	Pack of	Case of
12 × 75mm	9800-12	**14-955B**	72/52.85	10 Pk./381.52
13 × 100mm	9800-13	**14-955C**	72/58.90	10 Pk./434.00
15 × 125mm	9800-15	**14-955D**	72/75.90	10 Pk./551.36
16 × 150mm	9800-16	**14-955E**	72/79.47	8 Pk./462.11
18 × 150mm	9800-18	**14-955F**	72/95.40	8 Pk./567.00
20 × 150mm	9800-20	**14-955G**	72/107.01	8 Pk./618.69
25 × 150mm	9800-25	**14-955K**	72/176.30	4 Pk./525.00
25 × 200mm	9800 25X	**14-955L**	48/132.92	4 Pk./385.09

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To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Corning™ Pyrex™ Screw Cap Culture Tubes with PTFE Lined Phenolic Caps

PTFE interface is firmly bonded to glued-in rubber liner

14-932 Series

- Interface/liner bond provides a sure and highly inert sealing face
- Round-bottom culture tubes have white enamel marking spot
- Black phenolic cap resists effects of temperature and steam in autoclaving

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Pack of	Case of
13 × 100mm	13-415	9826-13	**14-933A**	144/403.00	2 Pk./600.00
16 × 100mm	15-415	9826-16	**14-932H**	288/654.39	----
16 × 125mm	15-415	9826-16X	**14-933-1A**	144/483.50	2 Pk./721.50
20 × 125mm	18-415	9826-20	**14-933C**	96/432.52	2 Pk./627.37
20 × 150mm	18-415	9826-20X	**14-933-1B**	96/451.39	2 Pk./656.93
25 × 150mm	24-410	9826-25	**14-933D**	48/274.00	3 Pk./611.00
25 × 200mm	24-410	9826-25X	**14-933-1C**	48/293.00	3 Pk./654.00

PyrexPlus™ Brand Reusable Tubes with Screw Caps

Protective PVC coating helps prevent glass from shattering

15-327 Series

- Round-bottom culture tubes are fully autoclavable to 121°C (250°F) and resistant to thermal shock
- Deep-form phenolic cap that resists effects of autoclaving and features a glued-in, white-rubber liner

NOTES:
Do not place over direct heat or flame. Do not heat above 121°C (250°F) moist heat or 110°C (230°F) dry heat.

O.D. × L	GPI Thread	Mfr. No.	Cat. No.	Case of
13 × 100mm	13-415	69825-13	**15-327A**	144/517.50
16 × 125mm	15-415	69825-16X	**15-327B**	144/660.00
20 × 150mm	18-415	69825-20X	**15-327C**	96/621.00
25 × 150mm	24-410	69825-25	**15-327D**	48/347.00

Pyrex™ Brand Disposable Rimless Flat-Bottom Glass Tubes

Ideal for plant tissue culture and general culture work

- Walls and bottoms are uniform thickness; flat bottom facilitates use with agar slants
- Tubes are rimless for greater ease in plugging and rack storage
- Two-position polypropylene closures available separately; position closure OPEN for gas exchange or CLOSED for humidified environment
- Internal drip ring minimizes contamination

14-957 Series

ORDERING INFORMATION:
Supplied without closures; except Pyrex 14-957-85E, -F, -G and -K caps (sold separately).

Dia. × L	Capacity	Mfr. No.	Cat. No.	Pack of	Case of
25 × 100mm	39mL	9850 25	**14-957-85A**	72/234.50	----
25 × 120mm	47mL	9850 25X	**14-957-85B**	72/234.50	----
25 × 150mm	59mL	9850 25XX	**14-957-85C**	36/149.10	2 Pk./222.50

Microcapillary

Fisherbrand® Microhematocrit Capillary Tubes

Low-taper wall construction guarantees error less than 1% absolute, 0.4 hematocrit, relative

- Ends can be sealed by sealing clay or flame
- Manufactured from low-taper, soft glass
- Red band on tube indicates heparinization; blue band indicates nonheparinized tube
- Interior surface of heparinized tubes is evenly coated with ammonium heparin (4 to 7 USP units), which will not interfere with sodium determination
- Taper does not exceed 0.0254mm in 75mm
- Available plain or heparinized with not less than 2 USP units of ammonium heparinate
- Color-coded tube tips and labels
- Packaged in Fisher Scientific™ shaker-top vials for ease in dispensing

22-362-566

ORDERING INFORMATION:
Length: 75mm ±0.02mm, Inner diameter: 1.1 to 1.2mm, Wall: 0.2mm ±0.02mm, Capacity: 70µL, 200 tubes per vial

Description	Cat. No.	Each	Case of 5 Vials
Heparinized	**22-362-566**	35.25	143.98
Plain	**22-362-574**	35.61	145.42

Fisherbrand® Micro Blood Collecting Tubes

With tapered bottom tips to facilitate micro blood sample collection

02-668 Series

- For Natelson and Caraway techniques
- Color-coded tops distinguish between plain and heparinized tubes
- Heparinized tubes are treated with ammonium heparin
- Natelson tubes have 1.44 to 1.76mm I.D., 147mm length
- Caraway tubes have 2.59 to 2.81mm I.D., 75mm length

Type	Anticoagulant	Color Code	Fill Volume	Cat. No.	Pack of 100	Case of 6 Packs
Natelson	Ammonium heparin	Red	250µL	**02-668-10**	67.30	330.00
	None	Blue	250µL	**02-668-15**	59.80	293.50
Caraway	Ammonium heparin	Red	350µL	**02-668-25**	77.80	382.00
	None	Blue	350µL	**02-668-30**	63.30	311.00

ACCESSORIES

Fisherbrand® Hemato-Seal™ Capillary Tube Sealant

Nondrying, nonhardening, nontoxic compound for sealing hematocrit and other blood collecting tubes

- Light color provides sharp contrast for easy reading
- Excellent retention during centrifugation

02-678

Description	Cat. No.	Pack of 10
Capillary Tube Sealant	**02-678**	78.80

Hemato-Clad™ Mylar™-Wrapped Hematocrit Tubes

Combine the precision of glass with the safety of Mylar wrapping

Hemato-Clad Mylar-Wrapped Hematocrit Tubes

- The chance of contamination due to glass fragments or aerosols is greatly reduced
- Accidental breakage is significantly reduced, particularly when pressing into clay sealant (not included)
- In the event of breakage, the Mylar wrapping will help contain the blood sample and provide an added layer of protection against cuts from broken glass
- Available both plain and heparinized

Type	Color Code	Inside Diameter	Tube Length	Wall Thickness	Mfr. No.	Cat. No.	Pack of 200
Heparinized	Red	1.1 to 1.2mm	75mm	0.2mm	1 000 7500 HC/5	**21-176-6**	22.15
Plain	Blue	1.1 to 1.2mm	75mm	0.2mm	1 000 7500 C/5	**21-176-5**	20.05

ACCESSORIES

Leica BioSystems Critoseal™ Capillary Tube Sealant

Seals any type of capillary tube with fast, heatless, flat-bottomed seal

- A vinyl plastic putty
- Remains pliable
- Will not dry out
- Supplied in tip-proof tray with numbered slots for 24 sets of tubes
- With sufficient sealant for several hundred tubes

02-676-20

Description	Mfr. No.	Cat. No.	Pack of 6
Critoseal Capillary Tube Sealant	8889 215003	**02-676-20**	24.63

Fisherbrand® OUTFIT YOUR LAB WITH FISHERBRAND

Fisherbrand outfits every part of your workspace. Whether you are working on the bench, in the freezer, in the hood, on the shelf or in the field, Fisherbrand has products to fit your every need. View our portfolio of over 10,000 products at **www.fishersci.com/fisherbrand.**

ON THE WEB...

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Visit www.fishersci.com and search for Capillary tubes

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

NMR

Kimble-Chase Kontes™ Brand Valved 5mm O.D. NMR Tubes

Ideal for handling volatile, air-sensitive and toxic samples

K897435-0000

- Permit condensing of samples directly into NMR tube
- Greaseless, Hi-Vac™ valve lets you recover samples, then reseal; no need to permanently seal off, as with conventional tubes
- With glass tube and Viton™ O-ring for connection to a vacuum system
- Wall thickness is 0.01475" (0.37mm); Wall variation and camber depend, in part, on tube length

For Instruments with Field Strength of	Length	Wall Variation TIR	Camber TIR	Mfr. No.	Cat. No.	Each
>360MHz	7" (17.7cm)	±0.0010"	±0.0005"	897435-0000	**K897435-0000**	166.90
>360MHz	8" (20cm)	±0.0010"	±0.0006"	897435-0008	**K897435-0008**	171.00

Kimble-Chase Kontes™ Brand 5mm Disposable Grade NMR Sample Tubes

5mm O.D. (0.019") Disposable Grade Tubes

For instruments with field strength of approximately 60MHz

K897193-0000

Each tube meets rigid specifications for wall thickness, variation and camber so as to assure precise measurements and reproducibility. Precision-manufactured tubes designed for use in high-resolution NMR spectroscopy that characterizes organic molecules through measurement of the resonant frequencies of atomic nuclei. Research applications include analysis of polymer structures and organic solutions.

- Made from Type I borosilicate glass
- Wall thickness: 0.015" (0.38mm)
- Wall variation and camber depend, in part, on tube length
- All sample tubes come with plastic compression-fit caps and sandblasted marking spots

Length	Mfr. No.	Cat. No.	Case of
7"	897193-0000	**K897193-0000**	25/96.50
8"	897193-0008	**K897193-0008**	25/105.40
7"	897193-0050	**K897193-0050**	50/95.10

Kimble-Chase Kontes™ Brand 3mm NMR Tubes

3mm O.D. (0.12") Tubes

Each tube meets rigid specifications for wall thickness, variation and camber so as to assure precise measurements and reproducibility

K8978 Series

Precision-manufactured tubes designed for use in high-resolution NMR spectroscopy that characterizes organic molecules through measurement of the resonant frequencies of atomic nuclei. Research applications include analysis of polymer structures and organic solutions.

- Made from Type I borosilicate glass
- Wall thickness: 0.01118" (0.28cm)
- Wall variation and camber depend, in part, on tube length
- All sample tubes come with plastic compression-fit caps and sandblasted marking spots

For Instruments with Field Strength of	Length	Wall Variation TIR	Camber TIR	Mfr. No.	Cat. No.	Pack of 5
80MHz	7" (17.8cm)	±0.0030"	±0.0020"	897800-0000	**K897800-0000**	82.03
100MHz	7" (17.8cm)	±0.0025"	±0.0020"	897805-0000	**K897805-0000**	84.18
300MHz	8" (20.3cm)	±0.0020"	±0.0011"	897820-0008	**K897820-0008**	92.90
300MHz	7" (17.8cm)	±0.0020"	±0.0005"	897825-0000	**K897825-0000**	92.92
500MHz	7" (17.8cm)	±0.0010"	±0.0005"	897835-0000	**K897835-0000**	101.10
500MHz	8" (20.3cm)	±0.0010"	±0.0006"	897835-0008	**K897835-0008**	113.00
600-800MHz	7" (17.8cm)	±0.0005"	±0.00025"	897840-0000	**K897840-0000**	118.20
600-800MHz	8" (20.3cm)	±0.0005"	±0.00035"	897840-0008	**K897840-0008**	131.40

Kimble-Chase Kontes™ Brand 5mm High Grade NMR Sample Tubes

5mm O.D. (0.19") High Grade Tubes

Each tube meets rigid specifications for wall thickness, variation and camber so as to assure precise measurements and reproducibility.

Precision-manufactured tubes designed for use in high-resolution NMR spectroscopy that characterizes organic molecules through measurement of the resonant frequencies of atomic nuclei. Research applications include analysis of polymer structures and organic solutions.

K8972 Series

- Made from Type I borosilicate glass
- Wall thickness: 0.01475" (0.37mm)
- Wall variation and camber depend, in part, on tube length
- All sample tubes come with plastic compression-fit caps and sandblasted marking spots

For Instruments with Field Strength of	Length	Wall Variation TIR[1]	Camber TIR[1]	Mfr. No.	Cat. No.	Pack of 5
>400MHz	7" (17.7cm)	±0.0005"	±0.00025"	897240-0000	**K8972400000**	93.30
>400MHz	8" (20cm)	±0.0005"	±0.00035"	897240-0008	**K897240-0008**	103.10
>400MHz	9" (23cm)	±0.0005"	±0.00045"	897240-0009	**K897240-0009**	112.20
360MHz	7" (17.7cm)	±0.0010"	±0.0005"	897235-0000	**K897235-0000**	69.20
360MHz	8" (20cm)	±0.0010"	±0.0006"	897235-0008	**K897235-0008**	76.10
360MHz	9" (23cm)	±0.0010"	±0.0007"	897235-0009	**K897235-0009**	83.90
300MHz	7" (17.7cm)	±0.0015"	±0.0010"	897230-0000	**K897230-0000**	59.50
300MHz	8" (20cm)	±0.0015"	±0.0011"	897230-0008	**K897230-0008**	65.30
200MHz	7" (17.7cm)	±0.0020"	±0.0005"	897225-0000	**K897225-0000**	59.40
200MHz	8" (20cm)	±0.0020"	±0.0006"	897225-0008	**K897225-0008**	65.30
150MHz	7" (17.7cm)	±0.0020"	±0.0010"	897220-0000	**K897220-0000**	44.65
150MHz	8" (20cm)	±0.0020"	±0.0011"	897220-0008	**K897220-0008**	49.15
100MHz	7" (17.7cm)	±0.0025"	±0.0020"	897205-0000	**K897205-0000**	35.90
100MHz	8" (20cm)	±0.0025"	±0.0020"	897205-0008	**K897205-0008**	41.05
100MHz	7" (17.7cm)	±0.0030"	±0.0020"	897200-0000	**K897200-0000**	31.25
80MHz	8" (20cm)	±0.0030"	±0.0020"	897200-0008	**K897200-0008**	32.75
80MHz	9" (23cm)	±0.0030"	±0.0020"	897200-0009	**K897200-0009**	34.85

Kimble-Chase Kontes™ Brand 10mm NMR Sample Tubes

10mm O.D. (0.39") Tubes

Precision tubes

K8973 Series

Kontes™ NMR sample tubes are used extensively in high resolution NMR spectroscopy. Precision-manufactured tubes designed for use in high-resolution NMR spectroscopy that characterizes organic molecules through measurement of the resonant frequencies of atomic nuclei. Research applications include analysis of polymer structures and organic solutions.

- Each tube meets rigid specifications for wall thickness, variation and camber so as to assure precise measurements and reproducibility
- Used with 60 to 200MHz NMR spectrometers
- Low tolerances held in wall variation camber
- Suitable for use in instruments at higher field strength (200-500MHz)
- Manufactured from ASTM™ Type1 borosilicate glass
- Wall variation and camber depend, in part, on tube length
- All sample tubes come with plastic compression-fit caps and sand-blasted marking spots

APPLICATIONS: High resolution NMR spectroscopy

For Instruments with Field Strength of	Length	Wall Variation TIR[1]	Camber TIR[1]	Mfr. No.	Cat. No.	Each
>360MHz	7" (17.7cm)	±0.0015"	±0.0005"	897335-0000	**K897335-0000**	47.00
>360MHz	8" (20cm)	±0.0015"	±0.0005"	897335-0008	**K897335-0008**	53.20
>150MHz	7" (17.7cm)	±0.0020"	±0.0010"	897330-0000	**K897330-0000**	38.56
60MHz	7" (17.7cm)	±0.0090"	±0.0020"	897320-0000	**K897320-0000**	23.90

[1] *Total Indicator Reading.*

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Kimble-Chase Kontes™ NMR Sample Tube Caps

For Kontes™ 5 or 10mm NMR sample tubes

- Convenient 100-cap variety pack of tight-fitting polyethylene color caps
- Stay in place even with a buildup of internal vaporization pressure

K897095 Series

ORDERING INFORMATION: Variety pack for 5mm (0.19") tubes includes 20 caps each of red, black, white, green and yellow. Variety pack for 10mm (0.39") tubes contains 25 each of red, black, green and yellow.

Description	Mfr. No.	Cat. No.	Case of 100
5mm Cap Variety Pack	897095-0011	**K897095-0011**	13.47
10mm Cap Variety Pack	897095-1011	**K897095-1011**	21.20

Kimble-Chase Kontes™ KIMAX™ N-51A Borosilicate Glass Flat Bottom NMR Tubes

Ideal for use in high resolution NMR spectroscopy

K8973000000

- Disposable grade
- Without cap
- Approx. frequency: 100MHz
- Wall thickness: 0.015" (0.38mm)
- Diameter: 0.39" (10mm)

Length	Mfr. No.	Cat. No.	Each
7" (18cm)	897300-0000	**K8973000000**	67.70
8" (20cm)	897300-0008	**K8973000008**	89.00

Kimble-Chase Kontes™ KIMAX™ NMR Borosilicate Glass 5mm Tube

Ideal for sealing directly to vacuum manifolds, joints or valves

K8971930000

- Made of KIMAX KG-33 borosilicate glass
- Have attached polyethylene cap

Length	Camber	Mfr. No.	Cat. No.	Each
7" (18cm)	0.00015" 3.8µ	897245-3000	**K8972453000**	196.10
7" (18cm)	0.00025" 6µ	897241-0000	**K8972410000**	136.90
8" (20cm)	0.00035" 9µ	897241-0008	**K8972410008**	147.50

Kimble-Chase Kontes™ KIMAX™ Borosilicate Glass Thrift N-51A 5mm NMR Tubes

Used to contain samples in nuclear magnetic resonance spectroscopy

K8971930000

- Made of KIMAX N-51A borosilicate glass
- Have attached cap
- Wall thickness is 0.014" (0.38mm)

Description	Mfr. No.	Cat. No.	Pack of 5
1206-7 Wilmad Equivalent	897110-0007	**K8971100007**	19.56
1208-7 Wilmad Equivalent	897120-0007	**K8971200007**	22.65
1208-8 Wilmad Equivalent	897120-0008	**K8971200008**	12.66
1226-7 Wilmad Equivalent	897130-0007	**K8971300007**	28.20
1226-8 Wilmad Equivalent	897130-0008	**K8971300008**	34.78
1228-7 Wilmad Equivalent	897140-0007	**K8971400007**	32.20
1228-8 Wilmad Equivalent	897140-0008	**K8971400008**	40.40
1235-7 Wilmad Equivalent	897150-0007	**K8971500007**	45.35
1235-8 Wilmad Equivalent	897150-0008	**K8971500008**	55.00

Kimble-Chase Kontes™ NMR Septum Sample Tube Caps

For 5mm, 7mm and 10mm NMR Tubes

Soft, natural rubber allows easy penetration with a syringe needle

- Dual seal, inside tube and outer sleeve
- Ideal for thin wall tubes
- Provides penetration point for syringe or cannulation additions
- Useful as a closure or for sample outgassing

Description	Color	Mfr. No.	Cat. No.	Pack of 100
5mm	White	897097-0001	**K897097-0001**	229.00
10mm	Red	897098-0010	**K897098-0010**	88.00
5mm	Red	897098-0005	**K897098-0005**	88.00
7mm	Red	897098-0007	**K897098-0007**	88.00

Pyrex™ Brand 5mm O.D. NMR Sample Tubes

Precision NMR tubes made of Pyrex borosilicate glass

- Compatible with all ground joints, valves and vacuum racks
- Suitable for all types of NMR spectrometers
- Meet industry standards of magnetic susceptibility
- Supplied in 7 and 8" (17.7 and 20cm) lengths, with caps
- Cat. No. 14-972-7A has wall thickness 0.01378" (0.35mm); all others 0.015" (0.38mm)

For Instruments with Field Strength of	Length	Concentricity TIR	Camber TIR	Mfr. No.	Cat. No.	Case of
300-500MHz	8" (20cm)	0.0005"	0.0006"	6980B-8	**14-972-2B**	5/145.00
200-400MHz	7" (17.7cm)	0.002"	0.0005"	6980D-7	**14-972-4A**	5/117.20
60MHz	7" (17.7cm)	0.003"	0.0020"	6980G-7	**14-972-7A**	10/119.90

Before You Buy Tygon® Tubing from Saint-Gobain

SAINT-GOBAIN

Tubing Selection Criteria — Use the STAMP Method

Size – I.D., O.D., wall thickness and length all need to be considered. The dimensions allow for different pressures and vacuum ratings as well as good connection points.

Temperature – The operating, cleaning and ambient temperatures are all factors that impact the performance of the tubing.

Application – Understanding the application is essential. Knowing the regulatory constraints (USP, FDA, EPA, EU, and NSF) and dynamics of the application will assist with material selection. It will also determine the need for clarity, durometer, flexural fatigue, abrasion resistance and pump life.

Media – Knowledge of the fluid or media being transported is necessary to ensure low extractables, prevent absorption/adsorption, and reduce particulate entrapment. Harsh chemicals and cleaning agents can also affect the life of the tubing.

Pressure – Vacuum and positive pressure can create stress on any tubing product.

Custom Solutions

- Over 1000 tubing formulations
- Durometer Hardness ranges Shore A38 to Shore D72
- Custom compounds can be formulated to match user requirements

Tygon Application-Specific Tubing

The Standard for Performance Excellence and Continuous Innovation

Saint-Gobain's application specific Tygon tubing products are recognized as an integral and vital component in countless fluid transport systems. The Tygon flexible tubing portfolio of products enhances user application performance and increases overall productivity.

Saint-Gobain's broad range of flexible tubing products meet specific user needs, such as resistance to chemicals, temperature fluctuations and regulatory compliance, as well as high purity and long service life. Tygon tubing products are used in the laboratory, medical, biotechnology and pharmaceutical markets; as well as in the food and beverage, chemical, environmental and industrial markets.

Saint-Gobain has transitioned all Tygon to non-DEHP formulations; and we have recently launched Tygon S3™, a Safe, Smart and Sustainable product line that is the first bio-based and phthalate-free tubing with the exceptional performance of Tygon.

Tygon S3™ Phthalate-Free Tubing Product Line

Saint-Gobain has designed a new product line that addresses rising worldwide safety concerns and regulatory standards regarding the use of phthalates.

- **Safe:** In an increasingly regulated environment, risks and liabilities cannot be overlooked when using phthalate-based products in the manufacturing process. Tygon S3 brings you more peace of mind with phthalate-free products
- **Smart:** Tygon S3 provides exceptional performance and can be precisely tailored for highly specialized applications. Its precision design can be customized for a variety of specialized industries while maintaining superior performance.
- **Sustainable:** An excellent opportunity to strengthen commitment to sustainability is by utilizing eco-friendly products in your process or in the equipment you offer. Featuring bio-based Tygon S3 flexible tubing reinforces your company's sustainability values.

TUBING FORMULATION	APPLICATION	REGULATORY COMPLIANCE
Tygon S3 E-3603	Laboratory Tubing	USP Class VI, FDA, NSF-51
Tygon S3 E-LFL	Long Flexible Life	USP Class VI, ISO 10993, FDA, NSF-51, Validation Guide
Tygon S3 B-44-4X	Food, Milk and Dairy Tubing	FDA, 3-A, NSF-51, NSF-61
Tygon S3 B-44-3	Beverage Tubing	FDA, 3-A, NSF-51, NSF-61
Tygon S3 Silver	Silver Antimicrobial Tubing	FDA, NSF-51
Tygon E-1000	Ultra Soft Tubing	FDA, NSF-51
Tygon 2375	Ultra Chemical Resistant Tubing	FDA, NSF-51
Tygon ND-100-65	Medical Tubing	USP Class VI, ISO 10993, Validation Guide
Tygon ND-100-80	Microbore Medical Tubing	USP Class VI
Tygon 3350	Sanitary Silicone Tubing	USP Class VI, FDA, 3-A, NSF-51, ISO 10993, Drug Master File
Tygon 2475	High-Purity Tubing	USP Class VI, FDA, Drug Master File, ISO 10993
Tygon 2475 I.B.	High Purity Pressure Tubing	USP Class VI, FDA, Drug Master File, ISO 10993
Tygon TAAT	Autoanalysis and Microbore Tubing for different applications	Different applications have different compliances

** For more information on all Tygon Series see www.fishersci.com*

Tubing

Plastic

Fisherbrand® Vinyl Tubing and Connector Kits

Resist fruit acids, lye, alcohol, greases and oils

- Clear, flexible vinyl tubing
- Nontoxic and tasteless
- Can be used at temperatures from -33° to +100°C (-27° to +212°F) at low pressures
- Tensile strength: 2000psi (13.8MPa)
- Durometer hardness: Shore A, 65

ORDERING INFORMATION: One kit per pack

INCLUDES:
50' (15.2m) of tubing, four autoclavable polypropylene connectors (one T, one elbow, one straight and one Y), autoclavable polypropylene tubing clamp with 15-position flow control (Kits 14-174-1E and 14-174-1G have two clamps)

COMPLIANCE:
U.S. Pharmacopeia XIX, Class VI and National Formulary Vol. 14 Standard

FDA criteria: 178.3740, 178.2010 and 175.300 (Tubing only)

14-174-1 Series

I.D.	Wall Thickness	O.D.	Cat. No.	Pack
0.18" (4.8mm)	0.06" (1.6mm)	0.31" (7.9mm)	**14-174-1A**	60.34
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	**14-174-1C**	73.88
0.31" (7.9mm)	0.06" (1.6mm)	0.43" (11mm)	**14-174-1E**	88.35
0.37" (9.5mm)	0.06" (1.6mm)	0.50" (12.7mm)	**14-174-1G**	106.22
0.37" (9.5mm)	0.12" (3.2mm)	0.62" (15.9mm)	**14-174-1J**	192.49
0.50" (12.7mm)	0.06" (1.6mm)	0.62" (15.9mm)	**14-174-1M**	121.29

Fisherbrand® Clear PVC Tubing

General-purpose polyvinyl chloride tubing for rinse and drain tubes

- Nonaging, nonoxidizing
- Highly flexible
- Size and foot markings at 1' (30cm) intervals
- Maximum operating temperature, 73.8°C (165°F)
- Durometer hardness: Shore A, 65

ORDERING INFORMATION:
In pack of 50' (15.2m)

14-169-7B

I.D.	Wall Thickness	O.D.	Cat. No.	Pack
0.12" (3.2mm)	0.06" (1.6mm)	0.25" (6.4mm)	**14-169-7A**	34.59
0.18" (4.8mm)	0.06" (1.6mm)	0.312" (7.9mm)	**14-169-7B**	47.88
0.25" (6.4mm)	0.06" (1.6mm)	0.375" (9.5mm)	**14-169-7C**	59.02
0.25" (6.4mm)	0.09" (2.4mm)	0.437" (11mm)	**14-169-7D**	102.43
0.25" (6.4mm)	0.12" (3.2mm)	0.5" (12.7mm)	**14-169-7E**	113.65
0.31" (7.9mm)	0.06" (1.6mm)	0.437" (11mm)	**14-169-7F**	76.11
0.37" (9.5mm)	0.06" (1.6mm)	0.5" (12.7mm)	**14-169-7G**	82.23
0.37" (9.5mm)	0.12" (3.2mm)	0.625" (15.9mm)	**14-169-7H**	154.82
0.50" (12.7mm)	0.06" (1.6mm)	0.625" (15.9mm)	**14-169-7J**	103.87
0.50" (12.7mm)	0.09" (2.4mm)	0.687" (17.4mm)	**14-169-7K**	138.79
0.50" (12.7mm)	0.12" (3.2mm)	0.75" (19mm)	**14-169-7L**	180.96
0.62" (15.9mm)	0.12" (3.2mm)	0.875" (22.2mm)	**14-169-7M**	208.59
0.75" (19mm)	0.12" (3.2mm)	1" (25.4mm)	**14-169-7N**	253.00

Fisherbrand® Tubing for Peristaltic and ICP Pumps and Manifolds

Two-stop tubing is color coded for easy size identification

Accu-Rated PVC

- Great versatility for a wide range of uses
- Moderate chemical resistance

Solva

- PVC-based compound with greater resistance to oil, gasoline, kerosene and many aromatic hydrocarbons
- Flexible translucent yellow

14-190-500 Series

ORDERING INFORMATION: Supplied in 16" (41cm) lengths

		Accu-Rated PVC		Solva	
I.D.	Color Code	Cat. No.	Pack of 12	Cat. No.	Pack of 12
0.010" (0.25mm)	Orange-blue	**14-190-500**	39.07	**14-190-517**	41.56
0.015" (0.38mm)	Orange-green	**14-190-501**	39.07	**14-190-518**	41.56
0.020" (0.51mm)	Orange-yellow	**14-190-502**	39.07	**14-190-519**	41.56
0.025" (0.64mm)	Orange-white	**14-190-503**	39.07	**14-190-520**	42.80
0.03" (0.76mm)	Black-black	**14-190-504**	39.07	**14-190-521**	41.56
0.035" (0.89mm)	Orange-orange	**14-190-505**	39.07	**14-190-522**	41.56
0.040" (1.02mm)	White-white	**14-190-506**	39.07	**14-190-523**	41.56
0.045" (1.14mm)	Red-red	**14-190-507**	39.07	**14-190-524**	41.56
0.051" (1.30mm)	Gray-gray	**14-190-508**	39.07	**14-190-525**	41.56
0.056" (1.42mm)	Yellow-yellow	**14-190-509**	39.07	**14-190-526**	42.80
0.060" (1.52mm)	Yellow-blue	**14-190-510**	39.07	**14-190-527**	42.80
0.065" (1.65mm)	Blue-blue	**14-190-511**	39.07	**14-190-528**	41.56
0.073" (1.85mm)	Green-green	**14-190-512**	39.07	**14-190-529**	41.56
0.081" (2.06mm)	Purple-purple	**14-190-513**	39.07	**14-190-530**	41.56
0.090" (2.29mm)	Purple-black	**14-190-514**	39.07	**14-190-531**	42.80
0.100" (2.54mm)	Purple-orange	**14-190-515**	39.07	**14-190-532**	42.80
0.110" (2.79mm)	Purple-white	**14-190-516**	39.07	**14-190-533**	42.80

Thermo Scientific™ Nalgene™ Pharma-Grade Platinum-Cured Silicone Tubing

Flexible, durable and translucent, this high-purity tubing is designed for a variety of pumps and transfer applications, including pharmaceutical, laboratory and bioprocess manufacturing.

- Tasteless, odorless, non-cytotoxic and non-hemolytic
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low binding suface minimizes absorption of proteins and food products
- Autoclavable; also can be sterilized by gamma radiation, EtO and chemical procedures
- Durometer hardness: Shore A, 50

ORDERING INFORMATION:
Double-bagged in case of 50' (15.2m)

COMPLIANCE:
Meets USP<87> Cytotoxicity (Agar Diffusion and MEM Elution methods); USP<88> Class VI;USP<661>Physicochemical Tests; ISO10993-3 Bacterial Mutagenicity – AmesAssay; ISO10993-4 Hemolysis Direct Contact, EP 3.1.9 Silicone Elastomer for Closures and Tubing and FDA CFR 177.2600 Rubber Articles Intended for Repeated Use

NOTES:
Not intended for invasive use.

I.D. × O.D. × Wall	Working Pressure (PSI)	Mfr. No.	Cat. No.	Case of 50 ft.
1/16 × 1/8 × 1/32"	18	8600-0020	**14-179-110**	46.16
1/8 × 1/4 × 1/16"	18	8600-0030	**14-179-111**	78.98
3/16 × 5/16 × 1/16"	14	8600-0040	**14-179-112**	99.49
3/16 × 3/8 × 3/32"	18	8600-0050	**14-179-113**	147.46
1/4 × 3/8 × 1/16"	12	8600-0060	**14-179-114**	113.12
1/4 × 7/16 × 3/32"	15	8600-0070	**14-179-115**	172.71
1/4 × 1/2 × 1/8"	18	8600-0080	**14-179-116**	234.32
5/16 × 1/2 × 3/32"	13	8600-0100	**14-179-117**	199.98
3/8 × 1/2 × 1/16"	9	8600-0120	**14-179-118**	143.42
3/8 × 9/16 × 3/32"	12	8600-0130	**14-179-119**	225.23
3/8 × 5/8 × 1/8"	14	8600-0140	**14-179-120**	292.90
1/2 × 11/16 × 3/32"	10	8600-0190	**14-179-121**	330.27
1/2 × 3/4 × 1/8"	12	8600-0200	**14-179-122**	457.53
5/8 × 7/8 × 1/8"	10	8600-0260	**14-179-123**	439.35
3/4 × 1 × 1/8"	10	8600-0310	**14-179-124**	511.06

Thermo Scientific™ Nalgene™ 180 Clear Plastic PVC Vacuum Tubing

Similar to Nalgene 180 tubing, except with thicker walls for full vacuum applications

- Withstands a full vacuum (80mm Hg)
- Autoclavable/Transparent

COMPLIANCE:
Material is Food-Grade and complies with USP VI and USDA regulations.

14-176 Series

I.D. × O.D. × Wall	Max. Press. psig at 73°F; 23°C	Max. Press. psig at 125°F; 52°C	Length per Unit	Mfr. No.	Cat. No.	Each Unit
$^3/_{16} \times {}^9/_{16} \times {}^3/_{16}$"	62	31	50'	8000-0055	**14-176-20**	367.00
$^1/_4 \times {}^5/_8 \times {}^3/_{16}$"	56	28	50'	8000-0065	**14-176-24**	411.60
$^1/_4 \times {}^5/_8 \times {}^3/_{16}$"	56	28	10'	8000-1065	**14-176-6B**	96.39
$^5/_{16} \times {}^7/_{16} \times {}^1/_{16}$"	30	15	10'	8000-1090	**14-176-247**	45.85
$^3/_8 \times {}^7/_8 \times {}^1/_4$"	54	27	50'	8000-0145	**14-176-42**	760.44
$^3/_8 \times {}^7/_8 \times {}^1/_4$"	54	27	10'	8000-1145	**14-176-6C**	175.39
$^1/_2 \times 1\text{-}{}^1/_8 \times {}^5/_{16}$"	52	26	50'	8000-0210	**14-176-54**	1102.00
$^1/_2 \times 1\text{-}{}^1/_8 \times {}^5/_{16}$"	52	26	10'	8000-1210	**14-176-6D**	249.56
$^5/_{16} \times 1\text{-}{}^3/_8 \times {}^3/_8$"	56	28	10'	8000-1270	**14-176-6E**	360.50
$^3/_4 \times 1\text{-}{}^1/_2 \times {}^3/_8$"	46	23	10'	8000-1325	**14-176-6F**	428.00
$1 \times 2 \times {}^1/_2$"	46	23	10'	8000-1375	**14-176-6G**	735.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Nalgene™ 180 Clear PVC Tubing

In pack of 50-, 100-, 250- and 500-ft. cases

Manufactured from the highest-grade resins and special plasticizers

COMPLIANCE:
Meets Food Additives Amendment of the Federal Food, Drug, and Cosmetic Act; also USDA and U.S. Pharmacopeia Class VI requirements for plastic materials.

14-176 Series

I.D. × O.D. × Wall	Max. Press. psi at 73°F; 23°C	Max. Press. psi at 125°F; 52°C	Ft. per Case	Mfr. No.	Cat. No.	Each
0.03 × 0.03 × 0.03"	60	30	50 ft.	8000-0002	**14-176-194**	24.90
0.06 × 0.13 × 0.03"	48	24	50 ft.	8000-0004	**14-176-191**	29.10
0.09 × 0.16x 0.03"	42	21	50 ft.	8000-0006	**14-176-192**	31.05
0.12 × 0.19 × 0.03"	34	17	50 ft.	8000-0010	**14-176-10**	34.30
0.12 × 0.18 × 0.03"	34	17	250 ft.	8000-9010	**14-176-86**	166.30
0.12 × 0.25 × 0.06"	50	25	50 ft.	8000-0020	**14-176-12**	66.40
0.12 × 0.25 × 0.06"	50	25	250 ft.	8000-9020	**14-176-88**	264.50
0.15 × 0.22 × 0.03"	30	15	50 ft.	8000-0025	**14-176-197**	52.20
0.18 × 0.31 × 0.06"	40	20	50 ft.	8000-0030	**14-176-14**	92.50
0.31 × 0.31 × 0.06"	40	20	250 ft.	8000-9030	**14-176-90**	371.00
0.25 × 0.38 × 0.06"	34	17	50 ft.	8000-0060	**14-176-22**	117.49
0.25 × 0.37 × 0.06"	34	17	100 ft.	8000-4060	**14-176-218**	174.10
0.25 × 0.37 × 0.06"	34	17	250 ft.	8000-9060	**14-176-92**	471.50
0.25 × 0.37 × 0.06"	34	17	500 ft.	8000-5060	**14-176-83**	904.00
0.25 × 0.43 × 0.09"	44	22	50 ft.	8000-0070	**14-176-26**	190.30
0.25 × 0.5 × 0.13"	52	26	50 ft.	8000-0080	**14-176-28**	229.50
0.25 × 0.5 × 0.13"	52	26	100 ft.	8000-4080	**14-176-219**	434.50
0.31 × 0.43 × 0.06"	30	15	50 ft.	8000-0090	**14-176-30**	135.20
0.31 × 0.43 × 0.06"	30	15	100 ft.	8000-4090	**14-176-220**	255.50
0.31 × 0.43 × 0.06"	30	15	250 ft.	8000-9090	**14-176-94**	539.50
0.31 × 0.5 × 0.09"	40	20	50 ft.	8000-0100	**14-176-32**	199.40
0.31 × 0.56 × 0.13"	46	23	50 ft.	8000-0110	**14-176-34**	242.50
0.37 × 0.5 × 0.06"	26	13	50 ft.	8000-0120	**14-176-36**	154.70
0.37 × 0.5 × 0.06"	26	13	100 ft.	8000-4120	**14-176-221**	298.50
0.37 × 0.5 × 0.06"	26	13	250 ft.	8000-9120	**14-176-96**	630.50
0.37 × 0.5 × 0.06"	25	13	500 ft.	8000-5120	**14-176-87**	1222.00
0.37 × 0.56 × 0.09"	36	18	50 ft.	8000-0130	**14-176-38**	203.00
0.37 × 0.63 × 0.12"	44	22	50 ft.	8000-0140	**14-176-40**	293.50
0.37 × 0.62 × 0.12"	44	22	100 ft.	8000-4140	**14-176-222**	559.50
0.43 × 0.63 × 0.09"	34	17	50 ft.	8000-0160	**14-176-46**	231.00
0.5 × 0.625 × 0.06"	22	11	250 ft.	8000-9180	**14-176-98**	774.50
0.5 × 0.69 × 0.09"	28	14	50 ft.	8000-0190	**14-176-50**	266.00
0.5 × 0.75 × 0.12"	34	17	50 ft.	8000-0200	**14-176-52**	360.00
0.62 × 0.88 × 0.12"	28	14	50 ft.	8000-0260	**14-176-58**	413.00
0.75 × 1 × 0.12"	26	13	50 ft.	8000-0310	**14-176-64**	466.50
1 × 1.25 × 0.12"	22	11	50 ft.	8000-0350	**14-176-72**	582.50
1 × 1.25 × 0.125"	11	11	50 ft.	8000-1350	**14-176-251**	199.70

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

Thermo Scientific™ Nalgene™ 489 LLDPE Tubing

Translucent so fluid levels can be easily seen

- Semirigid tubing (Durometer 50 Shore D) is economically priced and excellent for laboratory and industrial use
- Non-toxic, odorless and tasteless, this Food-Grade tubing complies with 21 CFR 177.1520 for food packaging
- Tubing can be bent to facilitate set-ups and can be chemically sterilized for repeatable use
- Superior chemical resistance

ORDERING INFORMATION: Available in packs of 50' (15.2m); all others in packs of 100' (30.5m).

COMPLIANCE: Complies with FDA regulations for food use.

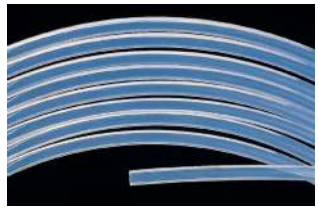
14-176-120 Series

I.D. × O.D. × Wall	Max. Press psig at 73°F; 23°C	Max. Press psig at 145°F; 63°C	Length per Case	Mfr. No.	Cat. No.	Case
1/8 × 1/4 × 1/16"	358	179	100'	8010-0125	**14-176-121**	57.90
1/4 × 3/8 × 1/16"	214	107	100'	8010-0250	**14-176-123**	80.44
3/8 × 1/2 × 1/16"	152	76	100'	8010-0375	**14-176-120**	113.50
1/2 × 5/8 × 1/16"	118	59	100'	8010-0500	**14-176-124**	152.70
5/8 × 3/4 × 1/16"	96	48	100'	8010-0625	**14-176-126**	193.80
1 × 1 1/4 × 1/8"	120	60	50'	8010-1000	**14-176-125**	360.50

Thermo Scientific™ Nalgene™ 890 Tubing

For trace metal analysis, pollution sampling and corrosion testing; use also to transfer biological preparations and in applications where binding/adsorption is a problem

- Use for demanding lab applications where binding/adsorption is a problem
- Superior non-stick characteristics eases movement of viscous, aggressive compounds
- Can be sterilized by autoclaving, gas, dry heat and disinfectants
- Autoclavable



14176 Series

ORDERING INFORMATION: Packaged in two 25-ft. (7.6m) lengths per case.

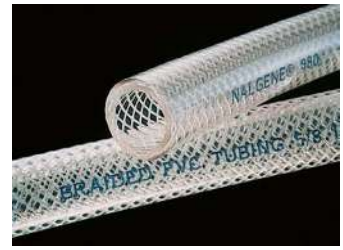
COMPLIANCE: Meets FDA 21 CFR 177.1550 for food contact.

I.D. × O.D. × Wall	Max. Press. psig at 73°F; 23°C	Max. Press. psig at 185°F; 85°C	Mfr. No.	Cat. No.	Pack	Case of 2 Pack
0.0625" × 0.125" × 0.0312"	440	220	8050-0125	**14176178**	84.50	108.40
0.125" × 0.1875" × 0.0312"	250	125	8050-0187	**14176271**	117.90	156.30
0.1875" × 0.25" × 0.0312"	140	70	8050-0250	**14176179**	178.00	229.00
0.25" × 0.3125" × 0.0312"	104	52	8050-0310	**14176180**	228.00	292.00
0.3125" × 0.375" × 0.0312"	84	42	8050-0375	**14176181**	268.00	352.50
0.375" × 0.4375" × 0.0312"	70	35	8050-0437	**14176272**	292.50	384.00
0.4375" × 0.5" × 0.0312"	60	30	8050-0500	**14176182**	370.00	475.00
0.5" × 0.5625" × 0.0312"	52	26	8050-0562	**14176273**	385.00	507.50

Thermo Scientific™ Nalgene™ 980 Braided Clear PVC Tubing

Braided, reinforced PVC tubing for high-pressure laboratory applications

- Doesn't impart taste making it desirable for food use
- Durometer (Shore A) of 65 makes this tubing more flexible than many competitive reinforced tubings
- Added flexibility makes it easier to bend and permits tighter compression of crimp fittings
- Marked with inside diameter and maximum working pressure for easy reordering
- Designed with braided reinforcement for high-pressure applications
- Excellent for use with weak acids, weak bases and salt solutions



8005 Series

ORDERING INFORMATION: In case of 50' (15.2m)

COMPLIANCE: Meets FDA regulations for food use.

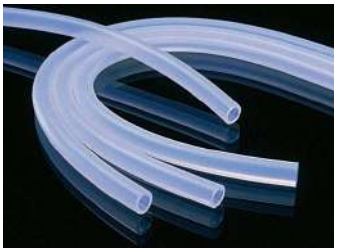
I.D. × O.D. × Wall	Max. Pressure (psig at 73°F; 23°C)	Max. Pressure (psig at 125°F; 52°C)	Mfr. No.	Cat. No.	Case
0.1875" × 0.375" × 0.0937"	276	138	8005-0040	**1416910F**	194.80
0.25" × 0.4375" × 0.0937"	276	138	8005-0070	**1416910A**	204.02
0.3125" × 0.5" × 0.0937"	276	138	8005-0100	**1416910G**	218.50
0.375" × 0.5625" × 0.0937"	250	125	8005-0130	**1416910B**	220.30
0.5" × 0.75" × 0.125"	230	115	8005-0190	**1416910C**	285.80
0.625" × 0.875" × 0.125"	230	115	8005-0260	**1416910D**	456.50
0.75" × 1" × 0.125"	176	88	8005-0310	**1416910E**	514.00
1 × 1.3125" × 0.1562"	140	70	8005-0360	**1416910H**	753.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Nalgene™ 50 Platinum-Cured Silicone Tubing for Peristaltic Pumps

Flexible, durable, high-purity translucent tubing for use with peristaltic pumps; designed to extend service life of pump and tubing



14-176 Series

- Tasteless, odorless, non-cytotoxic, non-pyrogenic and non-hemolytic
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low binding surface minimizes absorption of proteins and food products
- Autoclavable; also can be sterilized by gamma radiation, EtO and chemical procedures
- Durometer hardness: Shore A, 50

ORDERING INFORMATION: Double-bagged in case of 25' (7.6m)

COMPLIANCE: Meets FDA, USDA, U.S. Pharmacopeia Class VI, 24th Edition; and 3A sanitary standards.

NOTES: Not intended for invasive use.

Pump Tube Size	Hose Barb	Mfr. No.	Cat. No.	Case
No. 16	I.D. 1/8" (3.18mm)	8060-3016	**14-176-277**	109.00
No. 17	I.D. 1/4" (6.35mm)	8060-3017	**14-176-278**	156.90
No. 18	I.D. 5/16" (7.94mm)	8060-3018	**14-176-279**	170.60
No. 25	I.D. 3/16" (4.76mm)	8060-3025	**14-176-282**	142.00
No. 73	I.D. 3/8" (9.53mm)	8060-3173	**14-176-294**	332.50
No. 82	I.D. 1/2" (12.7mm)	8060-3182	**14-176-295**	482.00

Saint-Gobain™ Tygon S3™ E-3603 Flexible Tubings

Formulated for resistance to flex-fatigue and abrasion

14-171-241

- Bio-based formulation and contain no BPA or phthalates
- Provides high chemical resistance
- Non-oxidizing and non-contaminating
- Smooth, polished inner wall helps prevent buildup to facilitate cleaning
- Coils are marked at 30.4cm (1') intervals for easy measuring
- Slips easily over fittings and grips securely for simple lab set-ups
- Extra-heavy walls withstand full vacuum at room temperature (29.9" [759mm] of mercury at 23 °C [73 °F] and up to 27" [686mm] of mercury at 60°C [140°F])
- Sterilized by conventional autoclave methods (steam 30 min. at 15psi, 121°C) and Ethylene Oxide

APPLICATIONS:
Instrumentation connection, vent, drain and other general laboratory applications

- Food and beverage
- Biopharmaceutical
- Analytical instruments
- Peristaltic and vacuum pumps
- Condensers
- Incubators
- Desiccators
- Gas lines
- Drain lines

COMPLIANCE:
FDA, NSF, 3-A, meets USP Class VI, Japan Food Sanitation Law no. 370/1959, REACH, 1935/2004/EC and 10/2011/EU.

Specifications	
Durameter Hardness	56
Color	Clear
Ultimate Elongation	425%
Compression set Constant Deflection	64% at 70°C (158°F) for 22 hr.
Brittleness Temperature	-46°C (-51°F)
Tensile stress at 100% elongation	582psi (4MPa)
Max. Recommended Operating Temperature	74°C (165°F)
Specific Gravity	1.21
Tear Resistant	31kN/m (173 lb.-'/")
Tensile Strength	1750psi (12.1MPa)
Water [Absorption]	0.21% 24 hr. at 23°C

Inside Diameter	Outside Diameter	Wall Thickness	Length Per Pack	Mfr. No.	Cat. No.	Pack
1/16	3/16	1/16	50	ACF00003	**14-171-209**	48.10
3/32	7/32	1/16	50	ACF00005	**14-171-210**	61.20
5/32	7/32	1/32	50	ACF00009	**14-171-213**	36.95
5/32	9/32	1/16	50	ACF00010	**14-171-214**	83.60
3/16	3/8	3/32	50	ACF00013	**14-171-217**	159.60
1/4	5/16	1/32	50	ACF00016	**14-171-219**	52.90
5/16	5/8	5/32	50	ACF00025	**14-171-226**	318.50
3/8	5/8	1/8	50	ACF00029	**14-171-229**	280.50
7/16	9/16	1/16	50	ACF00032	**14-171-231**	212.50
7/16	5/8	3/32	50	ACF00033	**14-171-232**	233.50
1/2	13/16	5/32	50	ACF00039	**14-171-237**	469.50
5/8	13/16	3/32	50	ACF00045	**14-171-241**	350.50
5/8	15/16	5/32	50	ACF00047	**14-171-243**	500.00
3/4	1 1/4	1/4	50	ACF00057	**14-171-248**	1013.00
7/8	1 1/8	1/8	50	ACF00059	**14-171-250**	529.50
1 1/4	1 1/2	1/8	50	ACF00069	**14-171-255**	646.50
1 1/2	2	1/2	50	ACF00074	**14-171-258**	1494.00
1/4	1/2	1/8	100	ACF02019	**14-171-266**	622.00
1/4	3/8	1/16	500	ACF04017	**14-171-272**	696.00
Vacuum Sizes						
3/16	9/16	3/16	50	ACF00015	**14-171-218**	431.50
1/4	5/8	3/16	50	ACF00020	**14-171-222**	394.50
1/2	1 1/8	5/16	50	ACF00040	**14-171-238**	1062.00
5/8	1 3/8	3/8	50	ACF00049	**14-171-244**	1623.00
3/4	1 1/2	3/8	50	ACF00058	**14-171-249**	1694.00
Unipacs (10/10' lengths per Pack)						
3/16	5/16	1/16	100	ACFUN012	**14-171-274**	233.00
1/4	3/8	1/16	100	ACFUN017	**14-171-275**	199.40
1/4	1/2	1/8	100	ACFUN019	**14-171-276**	640.00
3/8	1/2	1/16	100	ACFUN027	**14-171-277**	276.50
1/2	5/8	1/16	100	ACFUN036	**14-171-279**	96.40
3/4	1	1/8	100	ACFUN053	**14-171-280**	1017.03
1	1 1/4	1/8	100	ACFUN062	**14-171-281**	1281.00
Vacuum Unipacs (10/10' lengths per Pack)						
3/8	7/8	1/4	100	ACFUN030	**14-171-278**	2260.00

Fisherbrand® TygonS3™ E-3603 Flexible Tubings

Formulated for resistance to flex-fatigue and abrasion

- Contains no BPA or phthalates
- Provides high chemical resistance
- Non-oxidizing and non-contaminating
- Coils are marked at 30.4cm (1') intervals for easy measuring
- Extra-heavy walls withstand full vacuum at room temperature (759mm [29.9"] of mercury at 23 °C [73 °F] and up to 686mm [27"] of mercury at 60°C [140°F])
- Sterilized by conventional autoclave methods (steam 30 min. at 15psi, 121°C) and Ethylene Oxide

ORDERING INFORMATION:
In pack of 50' (15.24m)

COMPLIANCE:
FDA, NSF, 3-A, meets USP Class VI, Japan Food Sanitation Law no. 370/1959, REACH, 1935/2004/EC and 10/2011/EU.

Specifications	
Durameter Hardness	56
Color	Clear
Ultimate Elongation	425%
Compression set Constant Deflection	64% at 70°C (158°F) for 22 hr.
Brittleness Temperature	-46°C (-51°F)
Tensile stress at 100% elongation	582psi (4MPa)
Max. Recommended Operating Temperature	74°C (165°F)
Specific Gravity	1.21
Tear Resistant	31kN/m (173 lb.-'/")
Tensile Strength	1750psi (12.1MPa)
Water [Absorption]	0.21% 24 hr. at 23°C

Inside Diameter	Outside Diameter	Wall Thickness	Cat. No.	Pack
5/8"	7/8"	1/8"	**14-171-242**	440.50
3/4"	1"	1/8"	**14-171-245**	721.50
1/8"	1/4"	1/16"	**14-171-103**	42.45
1/4"	3/8"	1/16"	**14-171-104**	86.00
1/16"	1/8"	1/32"	**14-171-129**	18.40
3/32"	5/32"	1/32"	**14-171-130**	27.75
3/16"	7/16"	1/8"	**14-171-131**	252.00
1/4"	7/16"	3/32"	**14-171-132**	214.00
1/32"	3/32"	3/32"	**14-171-208**	21.75
1/8"	3/16"	1/32"	**14-171-211**	29.30
3/16"	1/4"	1/32"	**14-171-215**	51.30
3/16"	5/16"	1/16"	**14-171-216**	107.60
1/4"	1/2"	1/8"	**14-171-221**	226.50
5/16"	7/16"	1/16"	**14-171-223**	146.20
5/16"	1/2"	3/32"	**14-171-224**	236.00
3/8"	1/2"	1/16"	**14-171-227**	168.00
3/8"	9/16"	3/32"	**14-171-228**	247.50
1/2"	5/8"	1/16"	**14-171-234**	238.50
1/2"	11/16"	3/32"	**14-171-235**	351.50
1/2"	3/4"	1/8"	**14-171-236**	425.00
1"	1-1/4"	3/8"	**14-171-252**	659.50
5/16"	9/16"	1/8"	**14-171-225**	276.00

Saint-Gobain™ Tygon™ Sanitary Silicone Tubing Formula 3350

Translucent tubing ideal for biotechnological, pharmaceutical and peristaltic applications

Ultrasmooth inner bore reduces risk of particle entrapment, inhibits microscopic bacterial buildup during fluid transfer and allows thorough cleaning and sterilization.

02-587-1G

- Tasteless, odorless
- Nonpyrogenic, nontoxic, nonhemolytic
- Low extractable content helps to maintain integrity and purity of transported fluids
- Smooth inner surface provides low adsorption for improved fluid flow (hydrophobic surface also improves fluid flow)
- Maximum recommended operating temperature 200°C (392°F)
- Autoclavable; also can be radiation- and gas-sterilized
- Durometer hardness: Shore A, 50

ORDERING INFORMATION:
Packaged in heat-sealed, double-wrapped polyethylene packs of 50' (15.2m)

COMPLIANCE:
Complies with requirements of USP XXII Class VI criteria. Meets 3A Sanitary Standards, FDA 21 CFR Part 177.2600 criteria and NSF 51 Standard.

NOTES: Not intended for use as an implant material.

I.D.	Wall Thickness	O.D.	Mfr. No.	Cat. No.	Pack
0.03" (0.8mm)	0.03" (0.8mm)	0.09" (2.4mm)	ABW00001	**02-587-1A**	90.00
0.06" (1.6mm)	0.03" (0.8mm)	0.12" (3.2mm)	ABW00002	**02-587-1B**	104.00
0.06" (1.6mm)	0.06" (1.6mm)	0.18" (4.8mm)	ABW00003	**02-587-1C**	138.50
0.09" (2.4mm)	0.03" (0.8mm)	0.15" (4mm)	ABW00004	**02-587-1D**	113.00
0.09" (2.4mm)	0.06" (1.6mm)	0.21" (5.6mm)	ABW00005	**02-587-1E**	163.20
0.12" (3.2mm)	0.03" (0.8mm)	0.18" (4.8mm)	ABW00006	**02-587-1F**	118.10
0.12" (3.2mm)	0.06" (1.6mm)	0.25" (6.4mm)	ABW00007	**02-587-1G**	174.00
0.15" (4mm)	0.03" (0.8mm)	0.21" (5.6mm)	ABW00009	**02-587-1H**	125.90
0.18" (4.8mm)	0.03" (0.8mm)	0.25" (6.4mm)	ABW00011	**02-587-1J**	149.90
0.18" (4.8mm)	0.06" (1.6mm)	0.31" (7.9mm)	ABW00012	**02-587-1K**	219.50
0.18" (4.8mm)	0.09" (2.4mm)	0.37" (9.5mm)	ABW00013	**02-587-1M**	318.00
0.25" (6.4mm)	0.03" (0.8mm)	0.31" (7.9mm)	ABW00016	**02-587-1P**	164.70
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	ABW00017	**02-587-1Q**	239.50
0.25" (6.4mm)	0.09" (2.4mm)	0.43" (11mm)	ABW00018	**02-587-1R**	371.00
0.25" (6.4mm)	0.12" (3.2mm)	0.5" (12.7mm)	ABW00019	**02-587-1S**	503.50
0.31" (7.9mm)	0.06" (1.6mm)	0.43" (11mm)	ABW00022	**02-587-1T**	302.50
0.31" (7.9mm)	0.09" (2.4mm)	0.5" (12.7mm)	ABW00023	**02-587-1U**	426.50
0.37" (9.5mm)	0.06" (1.6mm)	0.5" (12.7mm)	ABW00027	**02-587-1V**	334.00
0.37" (9.5mm)	0.09" (2.4mm)	0.56" (14mm)	ABW00028	**02-587-1W**	484.50
0.37" (9.5mm)	0.12" (3.2mm)	0.62" (15.8mm)	ABW00029	**02-587-1X**	614.50
0.43" (11mm)	0.09" (2.4mm)	0.62" (15.8mm)	ABW00033	**02-587-1Z**	552.00
0.5" (12.7mm)	0.09" (2.4mm)	0.62" (15.8mm)	ABW00036	**02-587-2A**	450.50
0.5" (12.7mm)	0.09" (2.4mm)	0.68" (18mm)	ABW00037	**02-587-2B**	589.50
0.5" (12.7mm)	0.12" (3.2mm)	0.75" (19mm)	ABW00038	**02-587-2C**	785.00
0.62" (15.8mm)	0.12" (3.2mm)	0.87" (22mm)	ABW00046	**02-587-2E**	939.50
0.75" (19mm)	0.12" (3.2mm)	1" (25.4mm)	ABW00053	**02-587-2F**	994.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Saint-Gobain™ PharMed™ BPT Tubing

Ideal for life science applications employing perisaltic pumps

14-170-15

- Nontoxic, nonhemolytic and nonpyrogenic tubing has long flex life and high biocompatibility — outlasts silicone tubing up to 30 times longer
- Very good general chemical resistance and excellent acid, alkali and oxidation resistance
- Opaque to visible and UV light, tubing will protect sensitive fluids
- Withstands temperatures from -51° to +135°C (-60° to +275°F)
- Withstands repeated clean-in-place and steam-in-place cleaning and sterilization; can be repeatably autoclaved for up to five cycle times without affecting overall service life
- Durometer hardness: Shore A, 64

APPLICATIONS:
Ideal for life science applications employing peristaltic pumps such as diagnostic test product manufacturing, cell harvest, media process system, vaccine manufacturing, bioreactor process lines, production filtration and fermentation, sterile filling, shear-sensitive fluid transfer

ORDERING INFORMATION:
In pack of 25' (7.6m)

COMPLIANCE:
Fully tested to ISO 10993 standards. Meets USP Class VI, FDA and NSF criteria.

Inside Diameter	Outside Diameter	Wall Thickness	Mfr. No.	Cat. No.	Pack
0.020"	0.145"	0.06"	AY242605	**14-170-09**	92.60
0.03"	0.15"	0.06"	AY242606	**14-170-02**	107.80
0.06"	0.12"	0.03"	AY242002	**14-170-14**	99.50
0.06"	0.18"	0.06"	AY242003	**14-170-03**	140.50
0.12"	0.25"	0.06"	AY242007	**14-170-15**	125.10
0.18"	0.31"	0.06"	AY242012	**14-170-04**	140.40
0.25"	0.37"	0.06"	AY242017	**14-170-01**	150.30
0.25"	0.5"	0.12"	AY242019	**14-170-00**	265.50
0.31"	0.43"	0.06"	AY242022	**14-170-05**	177.30
0.37"	0.62"	0.12"	AY242029	**14-170-07**	247.50
0.5"	0.75"	0.12"	AY242038	**14-170-06**	337.50
0.62"	0.87"	0.12"	AY242046	**14-170-13**	401.02
0.75"	1.00"	0.12"	AY242053	**14-170-08**	501.00

Saint-Gobain™ Tygon™ ND 100-65 Medical Tubings

For blood contact medical devices where non-DEHP plasticized materials are required

14-171-293

- Crystal clear for easy visualization of fluid flow
- For contact with bodily fluids
- Non-wetting surface permits complete drainage
- Non-hemolytic and non-pyrogenic
- Withstands EtO, gas and gamma sterilization

APPLICATIONS:

- Minimally invasive devices
- Blood and IV solutions
- Dialysis equipment
- Wound drainage
- Inhalation equipment
- Chemotherapy drug delivery
- Kidney dialysis pumps
- Peristaltic pumps
- Catheters

COMPLIANCE:
Meets USP Class VI criteria, USP Class VI, ISO 10993, European Pharmacopoeia 3.1.1.2 and European REACH requirements.

Specifications	
Durometer Hardness, Shore A, 15 sec. (ASTM Method: D2240)	65
Color	Clear
Tensile Strength (ASTM Method: D412)	2075psi (14.3MPa)
Ultimate Elongation (ASTM Method: D412)	415%
Tear Resistance	32.4kN/m (185 lb.-'/")
Specific Gravity	1.19
Water Absorption	0.12% 24 hr. at 23°C
Compression Set, Constant Deflection	60% at 70°C (158°F) for 22 hr.
Maximum Recommended Operating Temperature	74°C (165°F)
Brittleness by Impact Temperature	-42°C (-44°F)
Tensile Modulus at 100% Elongation	817psi (5.6MPa)

Inside Diameter	Outside Diameter	Wall Thickness	Mfr. No.	Cat. No.	Each
1/16"	1/8"	1/32"	ADF00002	**14-171-293**	21.30
3/32"	5/32"	1/32"	ADF00004	**14-171-295**	27.05
1/8"	1/4"	1/16"	ADF00007	**14-171-298**	106.40
3/16"	5/16"	1/16"	ADF00012	**14-171-302**	163.20
1/4"	3/8"	1/16"	ADF00017	**14-171-306**	209.00
1/4"	7/16"	3/32"	ADF00018	**14-171-307**	197.50
1/4"	1/2"	1/8"	ADF00019	**14-171-308**	293.50
5/16"	7/16"	1/16"	ADF00022	**14-171-309**	199.60
3/8"	1/2"	1/16"	ADF00027	**14-171-312**	179.30
3/8"	9/16"	3/32"	ADF00028	**14-171-313**	256.00
1/2"	5/8"	1/16"	ADF00036	**14-171-316**	218.50
1/2"	11/16"	3/32"	ADF00037	**14-171-317**	293.50
1/2"	3/4"	1/8"	ADF00038	**14-171-318**	410.50

Saint-Gobain™ Tygon™ Ultra-Chemical-Resistant Tubing, Formula 2375

Suitable for many applications, from battery acid filling to hazardous material handling

- Contains no plasticizers, eliminating fluid contamination and the premature embrittlement and cracking common with many flexible tubings
- Offers unequaled chemical resistance, clarity, and flexibility
- Virtually unaffected by acids, bases, ketones, salts and alcohols (resistant to highly aggressive chemicals)
- Exceptionally smooth inner surface inhibits particulate buildup and reduces the potential for contamination

14-169-22 Series

I.D.	Wall Thickness	O.D.	Mfr. No.	Cat. No.	Pack
In pack of 50' (15.2m)					
0.06" (1.6mm)	0.06" (1.6mm)	0.18" (4.8mm)	AJK00003	**14-169-22A**	97.40
0.12" (3.2mm)	0.06" (1.6mm)	0.25" (6.4mm)	AJK00007	**14-169-22B**	155.60
0.18" (4.8mm)	0.06" (1.6mm)	0.31" (7.9mm)	AJK00012	**14-169-22C**	166.10
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	AJK00017	**14-169-22D**	196.70
0.31" (7.9mm)	0.06" (1.6mm)	0.43" (11mm)	AJK00022	**14-169-22E**	203.50
0.37" (9.5mm)	0.06" (1.6mm)	0.5" (12.7mm)	AJK00027	**14-169-22F**	250.50
0.5" (12.7mm)	0.12" (3.2mm)	0.75" (19mm)	AJK00038	**14-169-22G**	554.00
0.62" (15.8mm)	0.12" (3.2mm)	0.87" (22mm)	AJK00046	**14-169-22H**	595.50
In pack of 25' (7.6m)					
1" (25.4mm)	0.18" (4.8mm)	1.37" (35mm)	AJK42064	**02-600-1B**	538.00

Saint-Gobain™ Tygon™ Formula 2475 High-Purity Tubing

Environmentally friendly — safe to dispose of through incineration

- Contains no plasticizers that can leach into or contaminate fluid, yet tubing remains flexible
- Virtually no absorption of key fluid constituents into tubing material or fluid adsorption onto tubing walls; fluid alteration and loss is limited
- Ideal for handling sensitive fluids such as pharmaceutical or biological solutions
- Also available braid-reinforced to withstand solutions with elevated working pressure (Contact your Fisher Scientific Customer Service Representative for details)

ORDERING INFORMATION:
In packs of 50' (15m)

COMPLIANCE:
Meets USP Class VI, FDA and NSF specifications. Documented biocompatibility to ISO 10993 standards.

14-169-23 Series

Inside Diameter	Outside Diameter	Wall Thickness	Mfr. No.	Cat. No.	Pack
0.06"	0.18"	0.06"	ACG00003	**14-169-23A**	108.10
0.12"	0.25"	0.06"	ACGR00007	**14-169-23B**	167.20
0.18"	0.31"	0.06"	ACG00012	**14-169-23C**	181.30
0.25"	0.37"	0.06"	ACG00017	**14-169-23D**	194.20
0.31"	0.43"	0.06"	ACG00022	**14-169-23E**	224.00
0.37"	0.5"	0.06"	ACG00027	**14-169-23F**	234.00
0.5"	0.75"	0.12"	ACG00038	**14-169-23G**	523.77
0.62"	0.87"	0.12"	ACG00046	**14-169-23H**	667.00

Fisher Scientific moving on Program

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Prices subject to change.

Saint-Gobain™ Tygon S3™ Clear Tubing, Formula B-44-4X

Specially designed to ensure bacterial-free fluid path for food processing applications

- Made with phthalate-free, non-DEHP flexible plastic
- Smooth and non-porous texture prevent from particle entrapment to avoid bacterial growth
- Good resistance to harsh alkaline cleaners and remain unaffected by common sanitizers
- Compatible with food that contains high oil
- Lightweight and easy to handle with minimum requirements of couplings and fittings
- Available in large bore sizes up to 6" inside diameter
- Provides clear visual inspection and flow control
- Reinforced tubing available for elevated pressure

APPLICATIONS:
Aseptic filling, Condiment dispensing, Dairy processing, Vitamin and flavor concentrate system, Soft-serve dispensing

COMPLIANCE:
FDA, NSF, 3-A, Japan Food Sanitation Law no. 370/1959, REACH, 1935/2004/EC and 10/2011/EU

Specifications	
Durometer Hardness	66
Color	Clear
Ultimate Elongation	390%
Brittleness Temperature	-36°C (-32°F)
Tensile Stress at 200% elongation	1379psi (9.5MPa)
Compression Set, Constant Deflection	59% at 70°C (158°F) for 22 hr.
Maximum Recommended Operating Temperature	74°C (165°F)
Specific Gravity	1.21
Tear Resistant	43.8kN/m (250 lb.-'/")
Tensile	2200psi (15.8MPa)
Water [Absorption]	0.22% 24 hr. at 23°C

Inside Dia.	Outside Dia.	Mfr.No.	Cat. No.	Each
5/32"	9/32"	AAA00010	**14-171-145**	75.81
3/16"	1/4"	AAA00011	**14-171-146**	39.25
3/16"	5/16"	AAA00012	**14-171-147**	87.40
1/4"	3/8"	AAA00017	**14-171-148**	113.00
1/4"	7/16"	AAA00018	**14-171-149**	163.35
3/8"	5/8"	AAA00029	**14-171-156**	292.50
7/16"	9/16"	AAA00032	**14-171-157**	142.96
1/2"	13/16"	AAA00039	**14-171-161**	378.01
3/4"	1"	AAA00053	**14-171-164**	496.00
2-1/2"	1"	AAA00082	**14-171-170**	860.05

Dow Corning™ Silastic™ Laboratory Tubing

Flexible, translucent silicone elastomer tubing

11-189-15 Series

- Platinum-cured to provide high purity for low extractables
- Contains no phthalates or plasticizers
- Easily cleaned and does not impart taste or odor
- Excellent tear strength and resistance to solvents and chemicals
- Nonpyrogenic; bacteria-, fungus- and chemical-resistant
- Microbore sizes available
- Working temperature range, -54° to +249°C (-65° to +480°F)
- Autoclavable; also can be sterilized by gamma irradiation and ethylene oxide
- Durometer hardness is Shore A, 53 for 11-189-14 and 11-189-15A to -15K; Shore A, 51 for 11-189-15L to -15V and 11-189-13A to -13D
- Both elastomers and finished tubing are manufactured under cGMPs in an FDA-registered, ISO 9001-certified facility

APPLICATIONS:
Specially designed for applications requiring fluid processing, separation, and filtration — such as drug manufacturing; oxygen delivery in production processes; and chemical, pharmaceutical, and environmental analyses. Also suitable for peristaltic pump use

ORDERING INFORMATION: In pack containing 50' (15.2m) coil; packaged in sealed polybag.

COMPLIANCE: Elastomers meet or exceed USP Class VI Plastics Test requirements.

NOTES: Not intended for use in human implantation; in or in conjunction with cosmetic surgery, contraception, reproduction, obstetrics and gynecology; or in weight- or load-bearing devices.

I.D.	Wall Thickness	O.D.	Mfr. No.	Cat. No.	Pack
0.012" (0.30mm)	0.006" (0.16mm)	0.025" (0.63mm)	2415496	**11-189-14**	69.80
0.020" (0.51mm)	0.008" (0.21mm)	0.037" (0.94mm)	2415500	**11-189-15A**	68.30
0.025" (0.63mm)	0.011" (0.27mm)	0.047" (1.19mm)	2415518	**11-189-15B**	68.80
0.030" (0.76mm)	0.017" (0.44mm)	0.065" (1.65mm)	2415526	**11-189-15C**	77.30
0.040" (1.01mm)	0.022" (0.57mm)	0.085" (2.16mm)	2415534	**11-189-15D**	124.30
0.058" (1.47mm)	0.009" (0.24mm)	0.077" (1.95mm)	2415542	**11-189-15E**	79.40
0.06" (1.6mm)	0.015" (0.4mm)	0.09" (2.4mm)	2415551	**11-189-15F**	79.70
0.06" (1.6mm)	0.03" (0.8mm)	0.12" (3.2mm)	2415569	**11-189-15G**	92.10
0.078" (2.0mm)	0.024" (0.6mm)	0.12" (3.2mm)	2415577	**11-189-15H**	87.60
0.104" (2.7mm)	0.044" (1.1mm)	0.192" (4.9mm)	2415585	**11-189-15J**	100.90
0.132" (3.4mm)	0.025" (0.065mm)	0.183" (4.6mm)	2415593	**11-189-15K**	95.90
0.12" (3.2mm)	0.06" (1.6mm)	0.25" (6.4mm)	515012	**11-189-15L**	135.00
0.18" (4.8mm)	0.06" (1.6mm)	0.31" (7.9mm)	2415615	**11-189-15M**	138.00
0.18" (4.8mm)	0.09" (2.4mm)	0.37" (9.5mm)	2415623	**11-189-15N**	156.80
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	2415631	**11-189-15P**	129.30
0.25" (6.4mm)	0.09" (2.4mm)	0.43" (11mm)	2415640	**11-189-15Q**	202.00
0.25" (6.4mm)	0.12" (3.2mm)	0.5" (12.7mm)	2415658	**11-189-13A**	269.00
0.31" (7.9mm)	0.09" (2.4mm)	0.5" (12.7mm)	2415666	**11-189-13B**	227.50
0.37" (9.5mm)	0.06" (1.6mm)	0.5" (12.7mm)	2415674	**11-189-15R**	187.40
0.37" (9.5mm)	0.09" (3.2mm)	0.56" (14mm)	2415682	**11-189-13C**	273.50
0.37" (9.5mm)	0.12" (2.4mm)	0.62" (15.8mm)	2415691	**11-189-15S**	427.00
0.5" (12.7mm)	0.09" (2.4mm)	0.68" (18mm)	2415704	**11-189-15T**	322.70
0.5" (12.7mm)	0.12" (3.2mm)	0.75" (19mm)	2415712	**11-189-13D**	484.50
0.62" (15.8mm)	0.12" (3.2mm)	0.87" (22mm)	2415721	**11-189-15V**	564.50

Rubber

Fisherbrand® Butyl Rubber Tubing

For use with air and carbon dioxide

- Resists oxygen degradation
- Heavy wall

ORDERING INFORMATION:
Package contains approximately 10' (3m).

14-168B

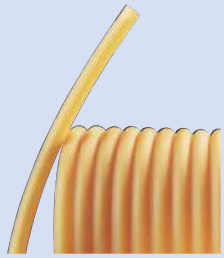
I.D.	Wall Thickness	O.D.	Cat. No.	Pack	Case of 5 Pack
0.25" (6.4mm)	0.12" (12.7mm)	0.50" (12.7mm)	**14-168B**	125.58	531.30

Fisherbrand® Natural Rubber Latex Tubing on 50' (15.2m) Reel

Contains dry natural rubber

ORDERING INFORMATION:
On 50' (15.2m) Reel

COMPLIANCE:
Meets Fed. Spec. ZZ-T-831D Types I and III. Amber tubing meets U.S. Pharmacopeia Class VI criteria.



14-178-2 Series

I.D.	Wall Thickness	O.D.	Cat. No.	Each
Amber, Thin Wall				
0.18" (4.8mm)	0.06" (1.6mm)	0.31" (7.9mm)	**14-178-2B**	95.75
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	**14-178-2C**	123.02
0.31" (7.9mm)	0.06" (1.6mm)	0.43" (11.1mm)	**14-178-2D**	136.25
Amber, Thick Wall				
0.12" (3.2mm)	0.09" (2.4mm)	0.31" (7.9mm)	**14-178-2AA**	114.53
0.18" (4.8mm)	0.09" (2.4mm)	0.37" (9.5mm)	**14-178-2BB**	122.41
0.25" (6.4mm)	0.09" (2.4mm)	0.43" (11.1mm)	**14-178-2CC**	124.13

[1]*Uncommon dimensions given in decimal form.*

Fisherbrand® Pure Natural Rubber Tubing in 12' Lengths

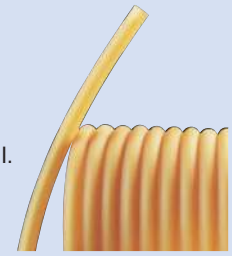
Contains dry natural rubber

- Durometer hardness: Shore A, 35 ±5

ORDERING INFORMATION:
In 12' (3.7m) length.

COMPLIANCE:
Meets Fed. Spec. ZZ-T-831D Types I and III.

Amber tubing meets U.S. Pharmacopeia Class VI criteria.



14-178-5 Series

I.D.	Wall Thickness	O.D.	Cat. No.	Each	Case of
Black, Thin Wall					
0.12" (3.2mm)	0.03" (0.8mm)	0.18" (4.8mm)	**14-150-5A**	32.77	8/213.62
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	**14-150-5C**	40.20	8/257.55
Amber, Thin Wall					
0.15" (4mm)	0.04" (1.2mm)	0.25" (6.4mm)	**14-178A**	28.73	8/187.15
0.18" (4.8mm)	0.06" (1.6mm)	0.31" (7.9mm)	**14-178B**	27.47	8/179.07
0.25" (6.4mm)	0.06" (1.6mm)	0.37" (9.5mm)	**14-178C**	37.52	8/238.87
0.31" (7.9mm)	0.06" (1.6mm)	0.43" (11.1mm)	**14-178D**	36.36	8/238.87
0.37" (9.5mm)	0.06" (1.6mm)	0.50" (12.7mm)	**14-178E**	43.18	8/281.29
0.50" (12.7mm)	0.09" (2.4mm)	0.68" (17.5mm)	**14-178F**	77.77	4/253.75
Amber, Thick Wall					
0.06" (1.6mm)	0.03" (0.8mm)	0.12" (3.2mm)	**14-178-5A**	34.14	16/420.16
0.12" (3.2mm)	0.03" (1.6mm)	0.25" (6.4mm)	**14-178-5B**	33.53	8/213.66
0.18" (4.8mm)	0.09" (2.4mm)	0.37" (9.5mm)	**14-178-5C**	39.84	8/259.84
0.25" (6.4mm)	0.09" (2.4mm)	0.43" (11.1mm)	**14-178-5D**	50.80	8/333.43
0.31" (7.9mm)	0.09" (2.4mm)	0.50" (12.7mm)	**14-178-5E**	50.90	8/331.28
0.37" (9.5mm)	0.12" (3.2mm)	0.62" (15.9mm)	**14-178-5F**	90.94	4/295.37
0.50" (12.7mm)	0.12" (3.2mm)	0.75" (19.1mm)	**14-178-5G**	90.50	4/294.86

Fisherbrand® WHY CHOOSE BLUE?

Choose blue — that's Fisherbrand blue — for products that guarantee quality, reliability and value. With over 10,000 products and premiere brands such as Isotemp and accumet you can choose blue for all your laboratory needs. Visit **www.fishersci.com/fisherbrand**.

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Check Valves

Thermo Scientific™ Nalgene™ Vacuum Check Valve and Positive Connector; HDPE

One-way high-density polyethylene valve for vacuum lines

- 2-piece design, easy to disassemble for cleaning
- Includes silicone diaphragm for prevention of back pressure

NOTES:
Not for use with liquids.

15-339-2

Description	Mfr. No.	Cat. No.	Pack of 6	Case of 12 Pk.
Vacuum Check Valve	6120-0010	**15-339-2**	86.70	710.50

Connectors - Standard

Fisherbrand® Straight Connectors with Tapered Ends

Very durable

15-315-28C

Fits Tubing I.D.	Mfr. No.	Cat. No.	Case of 100
0.12 to 0.21" (3.2 to 5.5mm)	227235	**15-315-28A**	136.80
0.18 to 0.31" (4.8 to 7.9mm)	227245	**15-315-28B**	171.80
0.25 to 0.37" (6.4 to 9.5mm)	227255	**15-315-28C**	189.70
0.37 to 0.43" (9.5 to 11mm)	227265	**15-315-28D**	186.50
0.43 to 0.56" (11 to 14mm)	227275	**15-315-28E**	218.50
0.5 to 0.62" (12.7 to 15.9mm)	227285	**15-315-28F**	242.00

Thermo Scientific™ Nalgene™ Tubing T-Type Connectors; PP

15-319A

Fits Tubing I.D.	Mfr. No.	Cat. No.	Pack of 12	Case of
1/8" (3.2mm)	6151-0125	**15-319A**	41.00	6 Pk./159.90
3/16" (4.8mm)	6151-0187	**15-319B**	40.60	6 Pk./158.30
1/4" (6.4mm)	6151-0250	**15-319C**	41.10	6 Pk./160.10
5/16" (7.9mm)	6151-0312	**15-319D**	44.70	6 Pk./174.40
3/8" (9.5mm)	6151-0375	**15-319E**	57.30	4 Pk./149.10
1/2" (12.7mm)	6151-0500	**15-319F**	65.60	4 Pk./170.20

Thermo Scientific™ Nalgene™ Tubing Y-Type Connectors; PP

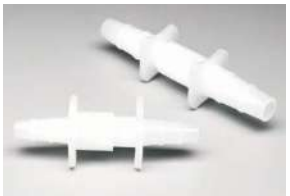
Fits Tubing I.D.	Mfr. No.	Cat. No.	Pack of 12	Case of
1/8" (3.2mm)	6152-0125	**15-320-10A**	54.20	6 Pk./211.00
3/16" (4.8mm)	6152-0187	**15-320-10B**	54.20	6 Pk./211.00
1/4" (6.4mm)	6152-0250	**15-320-10C**	52.70	6 Pk./205.50
5/16" (7.9mm)	6152-0312	**15-320-10D**	58.20	6 Pk./226.50
3/8" (9.5mm)	6152-0375	**15-320-10E**	74.00	4 Pk./192.20
1/2" (12.7mm)	6152-0010	**15-320-10F**	86.40	4 Pk./224.50

Connectors - Quick Disconnect

Thermo Scientific™ Nalgene™ Quick Disconnects; HDPE

High-density polyethylene connecting tubes

- Two tapered tubulations that fit tightly together with male/female connection, allowing for rapid joining or separation of apparatus lines



Fits Tubing I.D.	Mfr. No.	Cat. No.	Pack of 12	Case of 6 Pack
1/4 to 5/16" (6.4 to 7.9mm)	6150-0010	**15-315A**	67.00	261.50
3/8 to 7/16" (9.5 to 11mm)	6150-0020	**15-315B**	92.90	362.50

Thermo Scientific™ Nalgene™ Valved Barbed Quick Disconnects; PP

- Fluid flow stops when fitting halves are separated
- Designed for one-handed quick disconnect with flexible tubing
- Provides a leakproof connection between two tubes, but may require clamps
- Leakproof

Fits Tubing I.D.	Mfr. No.	Cat. No.	Pack of 2	Case of 6 Pack
1/4" (6.4mm)	6177-0250	**15-315-55**	132.20	516.00
3/8" (9.5mm)	6177-0375	**15-315-56**	135.20	528.00

Ultrasonic Cleaners

Fisher Scientific™ Ultrasonic Baths

Digital operation with power tracking capabilities to adjust for light or heavy loads

Constant activity/power tracking automatically maintains the ultrasonic power by adjusting for changes in liquid level or temperature. Applications include the cleaning of general lab implements and instruments as well as sample preparation, mixing and homogenization, dissolving solids and dispersion of particles.

- Sweep frequency feature eliminates standing waves and creates consistent cavitation
- Features 40kHz rugged industrial transducers
- Consists of 99-minute digital timer and continuous ultrasonic operation
- Extended degassing time periods for beyond cleaning applications; can also be set up to 99 minutes
- Ultrasonic power tracking to track operating frequency of bath, always delivering same power
- High/low power control to lower amplitude of acoustic energy for delicate applications
- Sleep mode when no key is pressed
- Delivers unwavering cavitation, steady activity in bath irrespective of load conditions change
- Automatic ultrasonic activation includes selectable times for degas and ultrasonic processing
- Controls located above and behind cleaning tank in easily accessible control tower panel
- Chemical-resistant body made of plastic
- Convenient built-in pour drains present on 0.5 gal. (1.9L) and 0.75
- gal. (2.8L) models
- Tank drains with valves incorporated on 1.5 gal (5.7L) and larger models

M Series

- Includes 60-min. mechanical timer and continuous operation

MH Series

- Includes 60-min. mechanical timer and continuous operation with heating capability

15-337-425

CPXH Series (Heated Models)

- Can be heated up to 69°C (156.2°F); set for either Fahrenheit or Celsius
- Completely programmable process allows you to choose temperature set points and walk away; once it reaches programmable set point, the cycle begins
- High-temp safety alarm indicator for protection from unit overheating
- Temperature calibration user-accessible through front panel

15-337-418

ORDERING INFORMATION:

Fisher Scientific offers a line of accessories including perforated trays, solid trays, beaker covers and support racks for your application needs. Visit www.fishersci.com for a full product listing, including mechanical units.

NOTES: Tank cover included. For optimum cleaning results, parts cannot touch tank bottom.

Capacity	L × W × D	Tank Size	Cat. No.	Each
MH Series: Heated; built-in pour drain				
0.5 gal. (1.9L)	9.9 × 12 × 11.9" (251 × 304 × 302mm)	6 × 5.5 × 4" (15 × 14 × 10cm)	**15-337-401**	584.91
0.75 gal. (2.8L)	13.3 × 12 × 11.9" (337 × 304 × 302mm)	9.5 × 5.5 × 4" (23 × 14 × 10cm)	**15-337-409**	775.37
MH Series: Heated; tank drain with valves				
1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (397 × 317 × 377mm)	11.5 × 6 × 6" (29 × 15 × 15cm)	**15-337-417**	1015.00
2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (397 × 401 × 378mm)	11.5 × 9.5 × 6" (29 × 24 × 15cm)	**15-337-425**	1344.00
5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (596 × 466 × 391mm)	19.5 × 11.5 × 6" (49.5 × 29 × 15cm)	**15-337-433**	2480.00
M Series: Unheated; built-in pour drain				
0.5 gal. (1.9L)	9.9 × 12 × 11.9" (251 × 304 × 302mm)	6 × 5.5 × 4" (15 × 14 × 10cm)	**15-337-400**	524.18
0.75 gal. (2.8L)	13.3 × 12 × 11.9" (337 × 304 × 302mm)	9.5 × 5.5 × 4" (23 × 14 × 10cm)	**15-337-408**	713.55
M Series: Unheated; tank drain with valves				
1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (397 × 317 × 377mm)	11.5 × 6 × 6" (29 × 15 × 15cm)	**15-337-416**	936.70
2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (397 × 401 × 378mm)	11.5 × 9.5 × 6" (29 × 24 × 15cm)	**15-337-424**	1287.00
5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (596 × 466 × 391mm)	19.5 × 11.5 × 6" (49.5 × 29 × 15cm)	**15-337-432**	2270.00
CPXH Series: Heated; built-in pour drain				
0.5 gal. (1.9L)	9.9 × 12 × 11.9" (251 × 304 × 302mm)	6 × 5.5 × 4" (15 × 14 × 10cm)	**15-337-402**	542.20
0.75 gal. (2.8L)	13.3 × 12 × 11.9" (337 × 304 × 302mm)	9.5 × 5.5 × 4" (23 × 14 × 10cm)	**15-337-410**	715.51
CPXH Series: Heated; tank drain with valves				
1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (397 × 317 × 377mm)	11.5 × 6 × 6" (29 × 15 × 15cm)	**15-337-418**	948.10
2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (397 × 401 × 378mm)	11.5 × 9.5 × 6" (29 × 24 × 15cm)	**15-337-426**	1214.25
5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (596 × 466 × 391mm)	19.5 × 11.5 × 6" (49.5 × 29 × 15cm)	**15-337-434**	2100.00
CPX Series: Unheated; built-in pour drain				
0.5 gal. (1.9L)	9.9 × 12 × 11.9" (251 × 304 × 302mm)	6 × 5.5 × 4" "(15 × 14 × 10cm)	**15-337-403**	533.19
0.75 gal. (2.8L)	13.3 × 12 × 11.9" (337 × 304 × 302mm)	9.5 × 5.5 × 4" (23 × 14 × 10cm)	**15-337-411**	714.53
CPX Series: Unheated; tank drain with valves				
1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (397 × 317 × 377mm)	11.5 × 6 × 6" (29 × 15 × 15cm)	**15-337-419**	942.40
2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (397 × 401 × 378mm)	11.5 × 9.5 × 6" (29 × 24 × 15cm)	**15-337-427**	1204.36
5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (596 × 466 × 391mm)	19.5 × 11.5 × 6" (49.5 × 29 × 15cm)	**15-337-435**	2180.29

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® Ultrasonic Cleaning Solution

Cleans a wide range of contaminants

- Specially suited for cleaning plastics, glass, ceramics, rubber and all types of metals including aluminum and magnesium
- High-performance, heavy-duty ultrasonic cleaner formulation
- Fast and long-lasting
- Odorless, ammonia-free and nonflammable with no acid, caustic or fuming problems
- Safe to handle, mild on hands
- Biodegradable
- Dilute in ratios up to 10 parts water to one part solution
- In 1 gal. (3.8L) bottle

Cat. No.	Each	Case of 4
15-335-80	78.60	243.00

15-335-80

Branson Bransonic™ Ultrasonic Baths

Offers level of precision and reliability

- Sweep frequency eliminates standing waves and creates consistent cavitation throughout the tank, eliminating dead zones for long life
- Digital models or mechanical models with and without heat
- 40kHz industrial transducers
- Controls located above and behind in easily accessible control tower panel which is raised above tank to avoid damage from cleaning solutions
- Chemical-resistant plastic body
- 0.5 and 0.75 gal. models: Feature built-in pour drains
- 1.5 gal. and larger models: Feature tank drains with valves

Digital Models (CPX and CPXH)

- 99-min. digital timer with continuous ultrasonic operation
- Heated models can be heated up to 69°C(156.2°F); set for either °F or °C
- Ultrasonic power tracking: Immediately brings the tank's frequency back to its optimum point
- Control circuitry actively tracks the operating frequency of the bath
- High/low power control for normal to delicate applications
- Sleep mode: An energy-saving green feature

M Series and MH Series Ultrasonic Baths

Mechanical Units (M and MH Series)

- 60-minute timer with continuous ultrasonic operation
- Heated models can be heated up to 69°C(156.2°F); set for either °F or °C
- High/low power control for normal to delicate applications
- Sleep mode: An energy-saving green feature

Model	Capacity	L × W × D	Tank Size	Mfr. No.	Cat. No.	Each
M Series: Without Heater; 120V						
M1800	0.5 gal. (1.9L)	9.9 × 12 × 11.9" (25.1 × 30.4 × 30.2cm)	6 × 5.5 × 4" (15.0 × 14.0 × 10.0cm)	CPX-952-116R	**15-336-100**	384.00
M2800	0.75 gal. (2.8L)	13.3 × 12 × 11.9" (33.7 × 30.4 × 30.2cm)	9.5 × 5.5 × 4" (23.0 × 14.0 × 10.0cm)	CPX-952-216R	**15-336-101**	542.00
M3800	1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (39.7 × 31.7 × 37.7cm)	11.5 × 6 × 6" (29.0 × 15.0 × 15.0cm)	CPX-952-316R	**15-336-102**	832.50
M5800	2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (39.7 × 40.1 × 37.8cm)	11.5 × 9.5 × 6" (29.0 × 24.0 × 15.0cm)	CPX-952-516R	**15-336-103**	1190.00
M8800	5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (59.6 × 46.6 × 39.1cm)	19.5 × 11.5 × 6" (49.5 × 29.0 × 15.0cm)	CPX-952-816R	**15-336-104**	1911.00
MH Series: With Heater; 120V						
M1800H	0.5 gal. (1.9L)	9.9 × 12 × 11.9" (25.1 × 30.4 × 30.2cm)	6 × 5.5 × 4" (15.0 × 14.0 × 10.0cm)	CPX-952-117R	**15-336-110**	436.50
M2800H	0.75 gal. (2.8L)	13.3 × 12 × 11.9" (33.7 × 30.4 × 30.2cm)	9.5 × 5.5 × 4" (23.0 × 14.0 × 10.0cm)	CPX-952-217R	**15-336-111**	618.00
M3800H	1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (39.7 × 31.7 × 37.7cm)	11.5 × 6 × 6" (29.0 × 15.0 × 15.0cm)	CPX-952-317R	**15-336-112**	937.50
M5800H	2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (39.7 × 40.1 × 37.8cm)	11.5 × 9.5 × 6" (29.0 × 24.0 × 15.0cm)	CPX-952-517R	**15-336-113**	1241.00
M8800H	5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (59.6 × 46.6 × 39.1cm)	19.5 × 11.5 × 6" (49.5 × 29.0 × 15.0cm)	CPX-952-817R	**15-336-114**	2115.00
CPX Series: Without Heater; 120V						
CPX1800	0.5 gal. (1.9L)	9.9 × 12 × 11.9" (25.1 × 30.4 × 30.2cm)	6 × 5.5 × 4" (15 × 14 × 10cm)	CPX-952-119R	**15-336-130**	497.50
CPX2800	0.75 gal. (2.8L)	13.3 × 12 × 11.9" (33.7 × 30.4 × 30.2cm)	9.5 × 5.5 × 4" (23 × 14 × 10cm)	CPX-952-219R	**15-336-131**	636.50
CPX3800	1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (39.7 × 31.7 × 37.7cm)	11.5 × 6 × 6" (29 × 15 × 15cm)	CPX-952-319R	**15-336-132**	996.00
CPX5800	2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (39.7 × 40.1 × 37.8cm)	11.5 × 9.5 × 6" (29 × 24 × 15cm)	CPX-952-519R	**15-336-133**	1273.00
CPX8800	5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (59.6 × 46.6 × 39.1cm)	19.5 × 11.5 × 6" (49.5 × 29 × 15cm)	CPX-952-819R	**15-336-134**	2210.00
CPXH Series: With Heater; 120V						
CPXH1800	0.5 gal. (1.9L)	9.9 × 12 × 11.9" (25.1 × 30.4 × 30.2cm)	6 × 5.5 × 4" (15 × 14 × 10cm)	CPX-952-118R	**15-336-120**	534.50
CPXH2800	0.75 gal. (2.8L)	13.3 × 12 × 11.9" (33.7 × 30.4 × 30.2cm)	9.5 × 5.5 × 4" (23 × 14 × 10cm)	CPX-952-218R	**15-336-121**	717.00
CPXH3800	1.5 gal. (5.7L)	15.6 × 12.5 × 14.8" (39.7 × 31.7 × 37.7cm)	11.5 × 6 × 6" (29 × 15 × 15cm)	CPX-952-318R	**15-336-122**	1078.00
CPXH5800	2.5 gal. (9.5L)	15.6 × 15.8 × 14.9" (39.7 × 40.1 × 37.8cm)	11.5 × 9.5 × 6" (29 × 24 × 15cm)	CPX-952-518R	**15-336-123**	1379.00
CPXH8800	5.5 gal. (20.8L)	23.5 × 18.3 × 15.4" (59.6 × 46.6 × 39.1cm)	19.5 × 11.5 × 6" (49.5 × 29 × 15cm)	CPX-952-818R	**15-336-124**	2440.00

Spectroline™ E-Series Handheld Lamps

A full range of models in this lamp series

Select the best combination of UV wavelength, intensity, size and wattage for specific applications, including chromatography, gel electrophoresis, germicidal, UV irradiation and UV curing.

- Offer easy wavelength interchangeability, making these viewing systems ideal for numerous applications where a darkened environment is needed
- Specular aluminum reflector ensures optimum UV irradiance
- Corrosion-resistant, specular aluminum housings provide comfortable, long-lasting service
- All short- and medium-wave models feature Longlife™ filter glass for higher initial UV transmission and maximum resistance to solarizations
- Outfitted with convenient, removable carrying handle for use with lamp stand

CERTIFICATIONS: UL listed

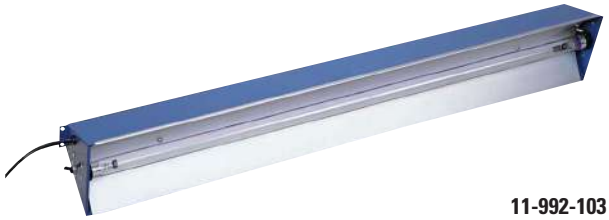
11-99 and 11-98 Series

Model	Wavelength (nm)	Intensity† (µw/cm²)	Dimensions (L × W × H)	Mfr. No.	Cat. No.	Each
UV-A						
One 6w longwave tube	365	1280	10.25 × 3.25 × 2.5" (26 × 8.3 × 6.4cm)	EA-160	**11-982-30**	182.00
UV-C						
One 4w shortwave tube with Longlife filter assembly	254	660	8 × 3.25 × 2.5" (20.3 × 8.3 × 6.4cm)	EF-140C	**11-992-20**	273.50
One 6w shortwave tube with Longlife filter assembly	254	1010	10.25 × 3.25 × 2.5" (26 × 8.3 × 6.4cm)	EF-160C	**11-982-31**	372.50
Germicidal UV-C						
One 4w germicidal shortwave tube	254	1370	7 × 3.25 × 2.5" (17.8 × 8.3 × 6.4cm)	EF-140	**11-992-120**	182.00
One 8w germicidal shortwave tube	254	1930	13.25 × 3.25 × 2.5" (33.7 × 8.3 × 6.4cm)	EF-180	**11-992-121**	206.50
UV-A/UV-C combination						
One 4w longwave tube, one 4w shortwave tube with Longlife filter assembly	365/254	300/310	8 × 3.25 × 2.5" (20.3 × 8.3 × 6.4cm)	ENF-240C	**11-992-23**	322.00
One 6w longwave tube, one 6w shortwave tube with Longlife filter assembly	365/254	350/390	10.25 × 3.25 × 2.5" (26 × 8.3 × 6.4cm)	ENF-260C	**11-992-32**	400.50

†Relative intensity at 6" (15.2cm)

Spectroline™ Germicidal UV Sterilizing Lamps

Unfiltered 254nm shortwave (UV-C) lamps provide high-intensity, wide area UV sterilization coverage



11-992-103

- For use wherever disease may be transmitted by air currents
- Choose from 15w single-tube or 15w dual-tube models
- All units have enameled sheet metal or anodized aluminum housing with mounting brackets

ORDERING INFORMATION:
For 115V 60Hz. Dimensions: 18.75L × 4.5W × 3.5"H (48 × 11 × 9cm)

CERTIFICATIONS: UL listed

Model	Intensity† (µw/cm²)	Mfr. No.	Cat. No.	Each
Single-tube				
15w	820	X-15G	**11-992-103**	389.00
Dual-tube				
15w	1550	XX-15G	**11-992-150**	430.50

†Peak 254nm at 10" (25cm).

Spectroline™ 15w Lamps for UV Cabinets FB-PDS-150, -151

Each 15w tube has rated life of 7500 hours

FB-UVLS-150

- For use as handheld lamps or with Spectroline UV Viewing Cabinets FB-PDS-150 and -151 (order separately)
- Assembled lamps measure 18.75L × 4.5W × 3.5"H (47.6 × 11.4 × 8.9cm)
- With aluminum reflector, UV-transmitting filter, anodized aluminum housing
- Available with one 365nm and one 254nm tube or two 312nm tubes

ORDERING INFORMATION: For 115V 60Hz

CERTIFICATIONS: UL listed

With Tubes (nm)	Intensity† (µw/cm²)	Cat. No.	Each
254/365	550/490	**FB-UVLS-150**	1321.00
Two 312	1150	**FB-UVM-150**	1283.39

†Relative intensity at 12" (30cm).

Fisher Scientific

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Spectroline™ 8w Lamps for UV Cabinets FB-PDS-80, -81

Each 8w tube has rated life of 6000 hours

- Can be used as handheld lamps or with Spectroline UV Viewing Cabinets FB-PDS-80 and -81 (order separately)
- Assembled lamps measure 13.25L × 3.25W × 2.5"H (33.7 × 8.3 × 6.4cm)
- Use with viewing cabinets or as handheld lamps
- With aluminum reflector, UV-transmitting filter, anodized aluminum housing
- Available with one 365nm and one 254nm tube or two 312nm tubes

ORDERING INFORMATION:
For 115V 60Hz

CERTIFICATIONS: UL listed

FB-UVLS-80

With Tubes (nm)	Intensity† (µw/cm²)	Cat. No.	Each
254/365	470/500	**FB-UVLS-80**	492.00
Two 312	620	**FB-UVM-80**	557.50

†Relative intensity at 6" (15cm).

UVP™ Compact and Handheld UV Lamps

Essential multipurpose UV lamps for laboratory use

Choice of 6w handheld or 4w compact UV lamps.

Handheld UV Lamps

- Uniquely designed with an ergonomic handle
- Lightweight 6w lamp for easy handling
- Durable plastic housing
- Models available with shortwave, longwave UV or a combination shortwave/longwave version
- Combination shortwave/longwave version comes with a snap-on wavelength selector for switching between wavelengths
- L × W × H: 14.9 × 3.2 × 2.5" (378 × 81 × 64mm)

Compact Lamps

- Lightweight 4w lamps fit comfortably in the hand
- Available models include 254nm shortwave, 365nm longwave or a combination shortwave/longwave version
- Shortwave/longwave version comes with a snap-on wavelength selector for switching between wavelengths
- L × W × D: 7.8 × 2.8 × 2.1" (198 × 71 × 53mm)

UVP95 0016 14

APPLICATIONS:
Bacterial identification, specimen staining, titration processes, thin layer chromatography, sterilization and visualization of DNA and RNA and fluorescence of other materials

ORDERING INFORMATION:
Replacement tubes available for all models.

CERTIFICATIONS:
ETL/ETLc or CE certified

Wavelength	Electrical Requirements	Intensity† (µw/cm²)	Mfr. No.	Cat. No.	Each
6w Handheld					
254nm	115V 60Hz	2250µw/cm²	95-0004-09	**UVP95 0004 09**	375.50
254/365nm, split tube	115V 60Hz	1290/950µw/cm²	95-0005-05	**UVP95 0005 05**	345.00
254/365nm	115V 60Hz	1350/1200µw/cm²	95-0007-05	**UVP95 0007 05**	441.00
302nm	115V 60Hz	1500µw/cm²	95-0104-01	**UVP95 0104 01**	419.50
365nm	115V 60Hz	1000µw/cm²	95-0006-02	**UVP95 0006 02**	255.00
4w Compact					
254nm	115V 60Hz	1400µw/cm²	95-0016-14	**UVP95 0016 14**	273.50
254/365nm, split tube	115V 60Hz	650/500µw/cm²	95-0017-09	**UVP95 0017 09**	274.50
254/365nm	115V 60Hz	760/720µw/cm²	95-0021-12	**UVP95 0021 12**	355.50
365nm	115V 60Hz	1000µw/cm²	95-0018-02	**UVP95 0018 02**	178.60
365nm	115V 60Hz	----	95-0019-16	**UVP95 0019 16**	164.30

† Relative intensity at 3" (7.6cm).

Before You Buy **Glass and Plastic Vials**

WHEATON

Important Considerations

- **Closure Type?** Determine appropriate finish (Screw thread, snap or serum). Screw thread and snap caps offer multiple cap materials and liners to protect sample integrity. Serum seals provide optimum storage for prolonged periods of time.
- **What Vial Glass is Best?** USP Type I (borosilicate glass) has superior chemical resistance, and can be used for most applications including parenteral drugs.
- **Which Plastic to Select?** Polymers offer a variety of properties, each having different levels of importance depending on application. Plastic vials are economical and offer flexibility for use with varied applications.
- **Light Sensitive?** Products that are light sensitive must be packaged in amber glass, which is formulated to absorb light.

Features and Benefits

- **CryoELITE Cryogenic Vials** - CryoELITE Cryogenic Vials with unrivaled cap seals that exceed DOT and IATA regulations. Optional 2D Data Matrix BarCode Inserts provide a unique identifier for traceability. Made from low binding, cryogenic virgin polypropylene, with lot certified RNase/Dnase and Endotoxin free certification, providing assurance of product integrity.
- **High Recovery Vials** - Innovative high-recovery vials for comprehensive sample collection, automated handling and storage. Designed with a unique interior bottom, which allows for maximum retrieval of vial contents by a syringe.
- **Liquid Scintillation** - Designed for compatibility with all scintillation counters that accommodate 20mL vials. Choose from a variety of vial, cap and liner materials. Vial materials include glass, HDPE and PET.
- **Sample -** Comprehensive line of sample vials and caps for storage and chemical compatibility. Choose from a range of sizes and Type I clear or amber glass.
- **Serum -** Ideal for long-term sample storage. Serum vials are available in Type I clear or amber glass and also available in a variety of sizes. The tubular design of these vials provides excellent clarity and dimensional consistency from vial to vial.

VIAL TYPE	GLASS	PLASTIC	SERUM FINISH	SCREW THREAD	APPLICATIONS
Autosampler	•			•	Liquid and gas chromatography
CryoELITE		•		•	Cryogenic sample storage
High Recovery	•	•			Compound storage, chromatography, reaction, concentrations and packaging
Liquid Scintillation	•	•		•	Liquid scintillation counting and sample storage
Sample	•	•		•	Sample collection and storage
Serum	•	•	•		Lyophilization, sample collection and storage

Vials

Autosampler

Crimp Top

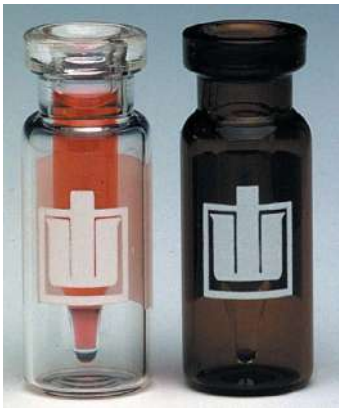
Wheaton™ LVI™ Vials with Crimp Top

One-piece 0.3mL clear or amber glass vials eliminate leakage and evaporation

A 300µL tapered insert is fused into a 12 × 32mm vial, ensuring that sample is sealed-in by cap and septa.

- Vial features a residual volume that can be as low as 4µL, depending on the solvent, needle style and depth adjustment of the autosampler
- Compatible with autosamplers using 12 O.D. × 32mmH vials
- Slight flare at top of insert provides a larger needle target area
- Inserts and clear vials are made from ASTM™ Type I Class A borosilicate glass
- Amber vials are made from ASTM Type I Class B borosilicate glass
- With white ceramic marking spot for easier sample identification

Color	Closure	Mfr. No.	Cat. No.	Case of 100
Clear	11mm Crimp	225220-01	**03-344-130**	160.85
Clear	10mm Screw Thread	225326	**06-446-1**	172.70
Amber	11mm Crimp	225221-01	**03-337-47**	199.50
Amber	10mm Screw Thread	225328	**06-446-2**	182.10



03-344-130, 03-337-47

EPA

Fisherbrand® Economical Glass EPA Vials

Ideal for use in water sampling

- Available in clear and amber Type I borosilicate glass

INCLUDES: White polypropylene open-top closures with 0.125" TFE/silicone septa

COMPLIANCE: According to the revised U.S. EPA 40CFR136 and 40CFR141 specifications

03-340-120

Capacity	O.D. × H	Cat. No.	Case of 72
Clear			
0.67 oz. (20mL)	28 × 57mm	**03-340-121**	203.00
1.35 oz. (40mL)	28 × 95mm	**03-340-119**	188.70
Amber			
0.67 oz. (20mL)	28 × 57mm	**03-340-122**	203.50
1.35 oz. (40mL)	28 × 95mm	**03-340-120**	256.98

ACCESSORIES

Fisherbrand® EnviroWare™ Borosilicate Glass EPA Vials Replacement Caps

Polypropylene screw-thread style

- Color: white
- Open top
- GPI thread: 24-400

Cat. No.	Case of 144
03-340-7L	45.40

Fisherbrand® EnviroWare™ Assembled Borosilicate Glass EPA Vials

For the collection and storage of water samples

Manufactured from Type I, Class A or amber 203 borosilicate glass

- Available in clear and amber form
- With closure GPI thread 24-400

03-339-14E

ORDERING INFORMATION:
Replacement caps and septa available

INCLUDES: White open-top polypropylene closures and 0.005" PTFE/0.120" silicone rubber septa

COMPLIANCE:
All EnviroWare vials comply with guidelines for establishing test procedures for the analysis of pollutants (Ref. U.S. EPA Methods 601, 602, 603 and 624).

Assembled EPA vials meet the revised U.S. EPA 40CFR136 and 40CFR141 specifications for discrete water sampling.

Capacity	O.D. × H	Cat. No.	Pack of 72	Case of 6 Pk.
Clear				
20mL	28 × 60mm	**03-339-14C**	184.60	774.50
40mL	28 × 98mm	**03-339-14A**	275.00	1152.00
Amber				
20mL	28 × 60mm	**03-339-14E**	220.00	920.00

Fisherbrand® Glass EPA Vials

Packaged in partitioned trays

- Borosilicate glass
- Clear vials for general analysis; amber vials for light-sensitive materials
- GPI thread, 24-400

02-912 Series

INCLUDES:
White polypropylene open-top screw caps with 0.125" PTFE /silicone septa

COMPLIANCE: Precleaned to meet or exceed EPA standards for volatile organic analysis

Color	Capacity	O.D. × H	Cat. No.	Case of 144
Precleaned with certification				
Clear	1.35 oz. (40mL)	28 × 95mm	**02-912-376**	735.00
Amber	1.35 oz. (40mL)	28 × 95mm	**02-912-377**	804.50
Clear	0.67 oz. (20mL)	28 × 57mm	**02-912-378**	730.36
Precleaned				
Clear	1.35 oz. (40mL)	28 × 95mm	**02-912-379**	474.50
Amber	1.35 oz. (40mL)	28 × 95mm	**02-912-380**	516.00
Clear	0.67 oz. (20mL)	28 × 57mm	**02-912-381**	550.00
Amber	0.67 oz. (20mL)	28 × 57mm	**02-912-382**	618.00

Kimble-Chase Glass Vials for EPA Water Analysis

Clear KG-33 or amber 203 borosilicate glass vials with screw threads.

- GPI 24-400 threads
- Without closures

COMPLIANCE:
Vials comply with guidelines for establishing test procedures for analyzing pollutants in water (Ref. U.S. EPA Methods 601, 602, 603 and 604).

03-339-11C

Capacity	O.D. × H	Mfr. No.	Cat. No.	Pack of 144	Case of 3 Pack
Clear					
20mL	28 × 57mm	60958A 4	**03-339-5A**	145.80	324.00
30mL	28 × 70mm	60958A 6	**03-339-5B**	161.84	354.42
40mL	28 × 95mm	60958A 912	**03-339-5C**	166.00	368.50
45mL	28 × 108mm	60958A 11	**03-339-5D**	175.90	391.00
60mL	30 × 123mm	60958A 16	**03-339-5E**	182.00	404.00
Amber					
20mL	28 × 57mm	60960A 4	**03-339-11A**	168.80	375.00
40mL	28 × 95mm	60960A 912	**03-339-11C**	199.00	442.50

Thermo Scientific™ Amber VOA Vials with Closed Cap

Amber borosilicate glass vial with white PP cap with PTFE-faced silicone liner

- Recommended for UV light-sensitive samples
- Clear vial designed for volatile organic analysis (VOA)
- Amber color protects light-sensitive analytes from breakdown
- Closed-top white polypropylene cap with PTFE-faced silicone liner bonded to the cap for a secure seal
- Directly compatible with automation
- Closures assembled to vials

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique field-to-lab carton conveniently converts to a vial organizer tray for convenient lab use. Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping.

Processed vials are processed in the same manner as Certified vials and come with all the features of Certified vials, but vials are not barcoded and CofA is not included.

Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process.

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

05-719-127 to -129

Volume	Description	Level	Cert Parameter	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 72
40mL	Amber VOA Vial	Unprocessed	VOA	Closed cap, PTFE-lined	24-414	C146-0040	**05-719-129**	121.80
40mL	Amber VOA Vial	Processed	VOA	Closed cap, PTFE-lined	24-414	C246-0040	**05-719-128**	173.10
40mL	Amber VOA Vial	Certified	VOA	Closed cap, PTFE-lined	24-414	C346-0040	**05-719-127**	205.50

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Amber VOA Vials with 0.125" Septa

Amber borosilicate glass vial with 0.125" silicone/PTFE septum in a white PP cap

- Recommended for UV light-sensitive samples
- Amber vial for water sample collection for volatile organic analysis (VOA)
- Amber color protects light-sensitive analytes from break-down
- Vial shoulder slope optimized to prevent air bubble entrapment
- Choose from 20mL, 40mL and 60mL sizes
- Open-top white polypropylene cap with standard 0.125" thick PTFE lined silicone septum
- Septum permanently bonded to the cap or unbonded for easy replacement
- Directly compatible with automation
- Closures assembled to vials

Includes:

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique field-to-lab carton conveniently converts to a vial organizer tray for convenient lab use (unbonded septum varieties only). Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping.

Amber Vials with 0.125 in. Septa

Processed vials are processed in the same manner as certified vials and come with all the features of certified vials, but vials are not barcoded, and CofA is not included.

Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process.

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Level	Cert Parameter	Septum	Closure Size	Mfr. No.	Cat. No.	Case of
40mL	Certified	VOA	0.125" unbonded	24-414	S346-0040	**05-719-105**	72/192.90
60mL	Certified	VOA	0.125" unbonded	24-414	S346-0060	**05-719-402**	72/226.50
20mL	Certified	VOA	0.125" bonded	24-414	139-20A/EP	**12-100-109**	72/235.00
40mL	Certified	VOA	0.125" bonded	24-414	141-40A/EP	**12-100-103**	72/242.00
40mL	Certified	VOA	0.125" bonded	24-414	141-40A/DB	**12-100-105**	144/276.00
60mL	Certified	VOA	0.125" bonded	24-414	141-60A	**12-100-120**	144/426.00
40mL	Processed	VOA	0.125" unbonded	24-414	S246-0040	**05-719-102**	72/160.50
60mL	Processed	None	0.125" unbonded	24-414	S246-0060	**05-719-401**	72/194.20
40mL	Unprocessed	None	0.125" unbonded	24-414	S146-0040	**05-719-99**	72/116.60
60mL	Unprocessed	None	0.125" unbonded	24-414	S146-0060	**05-719-400**	72/170.30
20mL	Unprocessed	None	0.125" bonded	24-414	339-20A	**12-100-116**	72/94.60
40mL	Unprocessed	None	0.125" bonded	24-414	341-40A	**12-100-117**	72/112.30
60mL	Unprocessed	None	0.125" bonded	24-414	341-60A	**12-100-121**	144/264.50

Thermo Scientific™ Economy Processed VOA Vials with Septa

Clear or amber borosilicate glass vial with silicone/PTFE septum in a white PP cap

- Vial designed for water sample collection for volatile organic analysis (VOA)
- Vial shoulder slope optimized to prevent air bubble entrapment
- Clear or amber vials; amber is recommended for light-sensitive analytes
- Available in the standard 40mL size
- Open-top white polypropylene cap with standard 0.125" septum
- Caps are unbonded, allowing septum to be replaced as needed
- Directly compatible with automation
- Closures assembled to vials

Includes:

- Processed to meet or exceed EPA performance-based standards for volatile organic analysis; no certificate
- Bulk packed glass-to-glass in shrink wrapped trays, 144/cs

COMPLIANCE: Vials are processed to meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

14-965-90 (top), 05-719-106

Volume	Description	Level	Cert Parameters	Septum	Closure Size	Mfr. No.	Cat. No.	Case of 144
40mL	Clear VOA Vial	Certified	VOA	0.125" unbonded	24-414	SB36-0040	**05-719-106**	255.50
40mL	Amber VOA Vial	Certified	VOA	0.125" unbonded	24-414	SB46-0040	**14-965-90**	255.00

Thermo Scientific™ Amber VOA Vials with 0.060" Septa

Thinner septum is easier for automation to puncture

- Amber vial designed for water sample collection for volatile organic analysis (VOA)
- Vial shoulder slope optimized to prevent air bubble entrapment
- Amber color protects light-sensitive analytes from breakdown prior to analysis
- Available in the standard 40mL size
- Open-top white polypropylene cap bonded with 0.060" thin PTFE-lined silicone septum
- Septum permanently bonded to the cap for secure sealing
- Optimized for use with automation
- Closures assembled to vials

05-719-300 to -301

Includes:

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique field-to-lab carton conveniently converts to a vial organizer tray for convenient lab use. Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping.

Processed vials are processed in the same manner as certified vials and come with all the features of certified vials, but vials are not barcoded, and CofA is not included.

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. × O.D. × Height	Closure Size	Replacement Closure	Mfr. No.	Cat. No.	Case of 72
40mL	44mL	Processed	.69 × 1.06 × 3.75"	24-414	297-2400UB	T246-0040	**05-719-301**	216.50
40mL	44mL	Certified/3 + TOC	.69 × 1.06 × 3.75"	24-414	297-2400UB	T346-0040	**05-719-300**	261.50

Thermo Scientific™ Clear VOA Vials with Closed Cap

Clear borosilicate glass vial with white PP cap with PTFE-faced silicone liner

- Clear vial designed for volatile organic analysis (VOA)
- Choose from 20mL or 40mL sizes
- Closed-top white polypropylene cap with PTFE-faced silicone liner bonded to the cap for a secure seal
- Directly compatible with automation
- Closures assembled to vials

Includes:

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique field-to-lab carton conveniently converts to a vial organizer tray for convenient lab use. Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping.

Processed vials are processed in the same manner as Certified vials and come with all the features of Certified vials, but vials are not barcoded, and CofA is not included.

Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process.

05-719-109 to -111, -118 to -120

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Capacity	Description	Level	Cert Parameters	Cap	Closure Size	Mfr. No.	Cat. No.	Case of 72
20mL	Clear VOA Vial	Certified	VOA	Closed cap, PTFE-lined	24-414	C326-0020	**05-719-109**	188.10
40mL	Clear VOA Vial	Certified	VOA	Closed cap, PTFE-lined	24-414	C336-0040	**05-719-118**	204.00
20mL	Clear VOA Vial	Processed	VOA	Closed cap, PTFE-lined	24-414	C226-0020	**05-719-110**	159.10
40mL	Clear VOA Vial	Processed	VOA	Closed cap, PTFE-lined	24-414	C236-0040	**05-719-119**	177.70
20mL	Clear VOA Vial	Unprocessed	None	Closed cap, PTFE-lined	24-414	C126-0020	**05-719-111**	105.60
40mL	Clear VOA Vial	Unprocessed	None	Closed cap, PTFE-lined	24-414	C136-0040	**05-719-120**	125.10

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Clear VOA Vials with 0.125" Septa

Clear borosilicate glass vial with 0.125" silicone/PTFE septum in a white PP cap

- Clear vial designed for water sample collection for volatile organic analysis (VOA)
- Vial shoulder slope optimized to prevent air bubble entrapment
- Choose from 20, 40 or 60mL sizes
- Open-top white polypropylene cap with standard 0.125" thick PTFE-lined silicone septum
- Septum permanently bonded to the cap or unbonded for easy replacement — you choose
- Directly compatible with automation
- Closures assembled to vials

Includes:

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique field-to-lab carton conveniently converts to a vial organizer tray for convenient lab use (unbonded septum varieties only). Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping.

Processed vials are processed in the same manner as Certified vials and come with all the features of Certified vials, but vials are not barcoded, and CofA is not included.

05-719- and 12-100 series

Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process.

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance-based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

Volume	Description	Level	Cert Parameters	Closure Size	Septum	Mfr. No.	Cat. No.	Case of
20mL	Clear VOA Vial	Certified	VOA	24-414	0.125" unbonded	S326-0020	**05-719-115**	72/184.70
40mL	Clear VOA Vial	Certified	VOA	24-414	0.125" unbonded	S336-0040	**05-719-104**	72/199.80
60mL	Clear VOA Vial	Certified	VOA	24-414	0.125" unbonded	S336-0060	**05-719-399**	72/234.50
20mL	Clear VOA Vial	Certified	VOA	24-414	0.125" bonded	139-20C/EP	**12-100-100**	72/211.00
40mL	Clear VOA Vial	Certified	VOA	24-414	0.125" bonded	140-40C/EP	**12-100-110**	72/229.50
40mL	Clear VOA Vial	Certified	VOA	24-414	0.125" bonded	140-40C/DB	**12-100-104**	144/334.00
60mL	Clear VOA Vial	Certified	VOA	24-414	0.125" bonded	140-60C	**12-100-102**	144/409.50
20mL	Clear VOA Vial	Processed	VOA	24-414	0.125" unbonded	S226-0020	**05-719-116**	72/161.80
40mL	Clear VOA Vial	Processed	VOA	24-414	0.125" unbonded	S236-0040	**05-719-101**	72/166.20
60mL	Clear VOA Vial	Processed	VOA	24-414	0.125" unbonded	S236-0060	**05-719-403**	72/202.50
20mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" unbonded	S126-0020	**05-719-117**	72/107.40
40mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" unbonded	S136-0040	**05-719-98**	72/117.50
60mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" unbonded	S136-0060	**05-719-398**	72/151.60
20mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" bonded	339-20C	**12-100-112**	72/94.60
40mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" bonded	340-40C	**12-100-111**	72/114.90
40mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" bonded	340-40C/DB	**12-100-106**	144/206.50
60mL	Clear VOA Vial	Unprocessed	None	24-414	0.125" bonded	340-60C	**12-100-113**	144/290.00

Thermo Scientific™ Clear VOA Vials with 0.060" Septa

Clear borosilicate glass vial with 0.060" silicone/PTFE septum in a white PP cap

- Clear vial designed for water sample collection for volatile organic analysis (VOA)
- Vial shoulder slope optimized to prevent air bubble entrapment
- Available in the standard 40 mL size
- Open-top white polypropylene cap bonded with 0.060" thin PTFE-lined silicone septum
- Septum permanently bonded to the cap for secure sealing
- Optimized for use with automation
- Closures assembled to vials

Includes:

Certified vials come with the following features:

- Certified to meet or exceed EPA performance-based standards for volatile organic analysis
- Certificate of Analysis (CofA) included in the case and barcoded with lot number for traceability
- Each vial individually barcoded with lot number and unique container number
- Analysis labels included unattached for optional use
- Carton sealed with security tape providing tamper evidence
- Unique field-to-lab carton conveniently converts to a vial organizer tray for convenient lab use. Chipboard divider packaging to cushion and help protect vials from breakage; overpack required for shipping.

Processed vials are processed in the same manner as certified vials and come with all the features of certified vials, but vials are not barcoded and CofA is not included.

Unprocessed vials are economically packaged glass-to-glass in a shrink-wrapped tray and are ready for your own in-house cleaning and certification process.

COMPLIANCE:
Certified and Processed vials meet or exceed EPA performance based standards for volatile organic analysis; manufactured under an ISO certified quality management system.

05-719-124 to -126, -706

Size	Approx. Brim Capacity	Cleaning Process/Level	I.D. × O.D. × Height	Closure Size	Replacement Closure	Mfr. No.	Cat. No.	Case of 72
40mL	44mL	Unprocessed	.69" × 1.06" × 3.75"	24-400	297-2400UB	T136-0040	**05-719-126**	150.70
40mL	44mL	Processed	.69" × 1.06" × 3.75"	24-400	297-2400UB	T236-0040	**05-719-125**	216.00
40mL	44mL	Certified/3 + TOC	.69" × 1.06" × 3.75"	24-400	297-2400UB	T336-0040	**05-719-124**	261.50
40mL	44mL	Certified/3 + TOC	.69" × 1.06" × 3.75"	24-414	297-2400UB	TB36-0040	**05-719-706**	293.50

Thermo Scientific™ Field-Ready™ 40mL Vials

No need to transport, measure and pour from reagent bottles

- I-Chem Certified 300 Series containers prefilled with chemical preservative for convenient sample preparation in the field
- Color-coded labels/seals are attached to each container to identify preservative, concentration and tamper evidence

ORDERING INFORMATION:
Each case is sealed with tamper-evident tape.

INCLUDES:
Polypropylene caps and PTFE-resin/silicone septa

COMPLIANCE:
Meet EPA analyte specifications for volatile organic analysis. Certificate of Analysis stating a listing of all analytes and their respective detection/quantitation limits and a special Field-Ready Certificate accompany each case.

05-719-528

Vial Color	Closure Color	Chemical Preservative	Mfr. No.	Cat. No.	Case of 72
Clear	Blue	0.5mL 1:1 Conc. HCl	S336D0.5012	**05-719-528**	261.50
Amber	Red	0.5mL 1:1 Conc. HCl	S346D0.5012RED	**05-719-439**	82.62

Wheaton™ Glass EPA Vials

Choose clear or amber borosilicate glass vials

- 40mL capacity
- GPI thread, 24-400

APPLICATIONS:
Ideal for use in water sampling according to U.S. EPA 40CFR136 Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

INCLUDES:
Open-top screw caps with 10mm TFE and 90mm silicone septum

06-412-37

Color	O.D. × H	Mfr. No.	Cat. No.	Pack of 72
Clear	27.75 × 98mm	225310	**06-412-37**	241.50
Amber	27.75 × 98mm	225315	**06-412-38**	261.00

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Sample

Glass

Fisherbrand® Class A Clear Glass Threaded Vials

03-339-25A

For general-purpose applications

- Low alkali content
- Borosilicate glass vials free of calcium, magnesium and zinc

ORDERING INFORMATION: Closures are packaged separately

INCLUDES: Autoclavable black phenolic closures with white rubber liners

COMPLIANCE: Meet Type I, Class A ASTM™ E 438 requirements.

Capacity	O.D. × H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
0.5 dr. (1.8mL)	12 × 35mm	8-425	**03-339-25A**	91.90	16 Pk./1028.00
1 dr. (3.7mL)	15 × 45mm	13-425	**03-339-25B**	79.80	16 Pk./880.35
2 dr. (7.4mL)	17 × 60mm	15-425	**03-339-25C**	95.90	12 Pk./805.00
3 dr. (11.1mL)	19 × 65mm	15-425	**03-339-25D**	97.80	8 Pk./547.50
4 dr. (14.8mL)	21 × 70mm	18-400	**03-339-25E**	113.90	8 Pk./637.50
6 dr. (22.2mL)	23 × 85mm	20-400	**03-339-25F**	144.90	6 Pk./608.50

Fisherbrand® Class A Clear Glass Threaded Vials with Attached Caps

14-955-3 Clear Series

Feature PTFE-faced, white, 14B rubber liner or low-density polyethylene Poly-Seal™ cone liner

- General-purpose vials
- Made from Type I, Class A borosilicate glass
- Short style vials feature low profile for greater stability and compound storage
- Packaged in partitioned trays

INCLUDES: Attached black phenolic screw-top closures

COMPLIANCE: Meet ASTM™ Type I, Class A and USP Type I standards

Capacity	Outside Dia. × Height	GPI Thread Finish	Cat. No.	Case of
With PTFE-faced, white, 14B rubber liner				
0.5 dr. (2mL)	0.47 × 1.37" (12 × 35mm)	8-425	**14-955-316**	288/1034.93
0.5 dr. (2mL)	0.59 × 1.10" (15 × 28mm)	13-425	**14-955-323**	200/432.32
1 dr. (4mL)	0.59 × 1.77" (15 × 45mm)	13-425	**14-955-327**	144/222.54
1 dr. (4mL)	0.66 × 1.59" (17 × 38mm)	15-425	**14-955-324**	200/445.95
1.5 dr. (6mL)	0.74 × 1.57" (19 × 40mm)	15-425	**14-955-325**	200/460.63
2 dr. (8mL)	0.66 × 2.36" (17 × 60mm)	15-425	**14-955-328**	144/279.49
3 dr. (12mL)	0.74 × 2.55" (19 × 65mm)	15-425	**14-955-329**	144/238.85
5 dr. (20mL)	1.10 × 2.24" (28 × 57mm)	24-400	**14-955-330**	72/287.24
6.25 dr. (25mL)	1.10 × 2.75" (28 × 70mm)	24-400	**14-955-319**	72/214.80
8 dr. (30mL)	0.98 × 3.7" (25 × 95mm)	22-400	**14-955-320**	144/378.50
With low-density polyethylene Poly-Seal™ cone liner				
1 dr. (4mL)	0.59 × 1.77" (15 × 45mm)	13-425	**14-955-334**	144/112.60
2 dr. (8mL)	0.66 × 2.36" (17 × 60mm)	15-425	**14-955-326**	144/123.90
3 dr. (12mL)	0.74 × 2.55" (19 × 65mm)	15-425	**14-955-310**	144/127.40
4 dr. (16mL)	0.82 × 2.75" (21 × 70mm)	18-400	**14-955-311**	144/144.30
5 dr. (20mL)	1.10 × 2.24" (28 × 57mm)	24-400	**14-955-313**	72/92.00
6 dr. (24mL)	0.90 × 3.34" (23 × 85mm)	20-400	**14-955-312**	144/167.60
6.25 dr. (25mL)	1.10 × 2.75" (28 × 70mm)	24-400	**14-955-314**	72/89.10
8 dr. (30mL)	0.98 × 3.7" (25 × 95mm)	22-400	**14-955-315**	144/182.30

Fisherbrand® Class B Amber Glass Threaded Vials

General-purpose vials for light-sensitive materials

- Made from Type I, Class B amber borosilicate glass
- Autoclavable
- Black screw-top cap
- White rubber liner

03-339-23A

ORDERING INFORMATION:
Closures are packaged separately

INCLUDES: Black phenolic screw-top closures with white rubber liners

Capacity	O.D. × H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
0.5 dr. (1.8mL)	12 × 35mm	8-425	**03-339-23A**	104.70	16 Pk./1172.00
1 dr. (3.7mL)	15 × 45mm	13-425	**03-339-23B**	91.40	16 Pk./1007.82
2 dr. (7.4mL)	17 × 60mm	15-425	**03-339-23C**	101.10	12 Pk./848.00
4 dr. (14.8mL)	21 × 70mm	18-400	**03-339-23D**	124.50	8 Pk./697.00
8 dr. (29.6mL)	25 × 95mm	22-400	**03-339-23E**	155.00	4 Pk./434.00

Fisherbrand® Class B Amber Glass Threaded Vials with Attached Caps

Packaged in partitioned trays

- General-purpose vials for light-sensitive materials
- Made from Type I, Class B amber borosilicate glass
- Autoclavable

14-955-3 Amber Series

INCLUDES:
Attached black phenolic screw-top closures with PTFE-faced white 14B rubber liners

COMPLIANCE:
Meet ASTM™ Type I, Class B and USP Type I standards.

Capacity	Outside Dia. × Height	Thread	Cat. No.	Case of
1 dr. (3.7mL)	0.59 × 1.77" (15 × 45mm)	13-425	**14-955-331**	144/272.88
5 dr. (18.5mL)	1.10 × 2.24" (28 × 57mm)	24-400	**14-955-333**	72/173.50
10 dr. (37mL)	1.10 × 3.7" (28 × 95mm)	24-400	**14-955-322**	72/208.09

Fisherbrand® Class B Clear Glass Threaded Vials

General-purpose vial

- Made from Type I, Class B borosilicate glass
- Black phenolic screw-top closure
- GPI thread finish

03-339-21 Series

INCLUDES:
Closure with polyvinyl-faced pulp liners (packed separately)

Capacity	O.D. × H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
0.5 dr. (1.8mL)	12 × 35mm	8-425	**03-339-21A**	78.90	16 Pk./882.50
1 dr. (3.7mL)	15 × 45mm	13-425	**03-339-21B**	65.20	16 Pk./728.50
1.5 dr. (5.5mL)	16 × 50mm	13-425	**03-339-21C**	70.20	16 Pk./785.50
2 dr. (7.4mL)	17 × 60mm	15-425	**03-339-21D**	74.00	12 Pk./621.50
3 dr. (11.1mL)	19 × 65mm	15-425	**03-339-21E**	80.70	8 Pk./451.00
4 dr. (14.8mL)	21 × 70mm	18-400	**03-339-21F**	93.40	8 Pk./522.00
4 dr. (14.8mL)	28 × 57mm	24-400	**03-339-21J**	113.70	3 Pk./239.00
6 dr. (22.2mL)	23 × 85mm	20-400	**03-339-21G**	99.20	6 Pk./416.50
6 dr. (22.2mL)	28 × 70mm	24-400	**03-339-21K**	121.40	3 Pk./255.00
8 dr. (29.6mL)	25 × 95mm	22-400	**03-339-21H**	107.20	4 Pk./300.00
9.5 dr. (35.1mL)	28 × 95mm	24-400	**03-339-21M**	131.00	3 Pk./275.00
11 dr. (40.7mL)	28 × 108mm	24-400	**03-339-21N**	139.30	3 Pk./292.50

Fisherbrand® Class B Clear Glass Threaded Vials with Closures Attached

General-purpose vial

- Made from Type I, Class B borosilicate glass
- Attached black phenolic screw-top closures with polyvinyl-faced pulp liner
- GPI thread finish

03-338C

INCLUDES: Attached black phenolic screw-top closures with polyvinyl-faced pulp liner

Capacity	O.D. × H	GPI Thread Finish	Cat. No.	Pack of	Case of
0.5 dr. (1.8mL)	12 × 35mm	8-425	**03-338AA**	144/115.30	36 Pk./2920.00
1 dr. (3.7mL)	15 × 45mm	13-425	**03-338A**	144/108.70	16 Pk./1217.00
1.5 dr. (5.5mL)	16 × 50mm	13-425	**03-338B**	144/112.90	18 Pk./1421.00
2 dr. (7.4mL)	17 × 60mm	15-425	**03-338C**	144/115.10	12 Pk./966.00
3 dr. (11.1mL)	19 × 65mm	15-425	**03-338D**	144/133.40	12 Pk./1120.00
4 dr. (14.8mL)	21 × 70mm	18-400	**03-338F**	144/139.10	8 Pk./778.50
4 dr. (14.8mL)	28 × 57mm	24-400	**03-338E**	72/92.00	10 Pk./643.00
6 dr. (22.2mL)	23 × 85mm	20-400	**03-338H**	144/171.50	6 Pk./719.50
6 dr. (22.2mL)	28 × 70mm	24-400	**03-338G**	72/107.36	8 Pk./592.77
8 dr. (29.6mL)	25 × 95mm	22-400	**03-338J**	72/127.26	8 Pk./702.11
9.5 dr. (35.1mL)	28 × 95mm	24-400	**03-338K**	72/118.10	6 Pk./496.00
11 dr. (40.7mL)	28 × 108mm	24-400	**03-338L**	72/134.51	6 Pk./556.50

Fisherbrand® Class B Clear Glass Threaded Vials

General purpose vial prevents alteration of pH of sample

- Made from Type I, Class B borosilicate glass
- Autoclavable

03-339-22 Series

ORDERING INFORMATION:
Closures are packaged separately

INCLUDES:
Black phenolic screw-top closures with white rubber liners

Capacity	O.D. × H	GPI Thread Finish	Cat. No.	Pack of 144	Case of
0.5 dr. (1.8mL)	12 × 35mm	8-425	**03-339-22A**	90.60	16 Pk./1014.00
1 dr. (3.7mL)	15 × 45mm	13-425	**03-339-22B**	74.30	16 Pk./819.21
1.5 dr. (5.5mL)	16 × 50mm	13-425	**03-339-22C**	106.33	16 Pk./1173.11
2 dr. (7.4mL)	17 × 60mm	15-425	**03-339-22D**	84.80	12 Pk./711.50
3 dr. (11.1mL)	19 × 65mm	15-425	**03-339-22E**	86.60	8 Pk./484.00
4 dr. (14.8mL)	21 × 70mm	18-400	**03-339-22F**	105.30	8 Pk./589.50
4 dr. (14.8mL)	28 × 57mm	24-400	**03-339-22J**	146.40	3 Pk./307.00
6 dr. (22.2mL)	23 × 85mm	20-400	**03-339-22G**	135.40	6 Pk./566.00
6 dr. (22.2mL)	28 × 70mm	24-400	**03-339-22K**	149.80	3 Pk./314.50
8 dr. (29.6mL)	25 × 95mm	22-400	**03-339-22H**	129.10	4 Pk./361.50
9.5 dr. (35.1mL)	28 × 95mm	24-400	**03-339-22M**	156.70	3 Pk./329.00
11 dr. (40.7mL)	28 × 108mm	24-400	**03-339-22N**	163.10	3 Pk./342.50

Fisherbrand® Glass Shell Vials

Straight-sided

- Made from Type 1, N-51A borosilicate glass
- Ideal for storing dry products
- Good visibility of contents

03-339-26G

ORDERING INFORMATION: Vials without closures use corks (sold separately)

Capacity	O.D. × H	Cat. No.	Pack of 144	Case of
Bulk pack with Tite-Seal™ closures				
0.5 dr. (1.8mL)	12 × 35mm	**03-339-26A**	53.50	16 Pk./589.50
1 dr. (3.7mL)	15 × 45mm	**03-339-26B**	50.50	16 Pk./549.40
2 dr. (7.4mL)	19 × 51mm	**03-339-26C**	69.00	12 Pk./828.00
3 dr. (11.1mL)	19 × 65mm	**03-339-26D**	85.80	8 Pk./469.50
7 dr. (25.9mL)	29 × 65mm	**03-339-26F**	140.90	3 Pk./287.75
10 dr. (37.0mL)	29 × 80mm	**03-339-26G**	147.50	3 Pk./306.00
12 dr. (44.4mL)	29 × 94mm	**03-339-26H**	148.80	3 Pk./308.50
Lab pack without closures				
0.25 dr. (0.9mL)	9 × 30mm	**03-339-30A**	42.75	10 Pk./295.00
0.5 dr. (1.8mL)	12 × 35mm	**03-339-30B**	34.65	10 Pk./239.00
1 dr. (3.7mL)	15 × 45mm	**03-339-30C**	42.30	10 Pk./287.76
2 dr. (7.4mL)	17 × 60mm	**03-339-30E**	95.26	6 Pk./394.29
3 dr. (11.1mL)	19 × 65mm	**03-339-30F**	75.62	6 Pk./312.82
4 dr. (14.8mL)	21 × 70mm	**03-339-30G**	77.40	4 Pk./213.60
6 dr. (22.2mL)	23 × 85mm	**03-339-30H**	90.10	4 Pk./248.50
8 dr. (29.6mL)	25 × 95mm	**03-339-30J**	146.60	4 Pk./399.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Glass Tooled-Neck Vials with Polyethylene Closures

General purpose

- Made from Type 1, N-51A borosilicate glass
- Tooled necks ensure accurate fit with closures

INCLUDES:
The 1- and 2-dram sizes come with open-bottom closures; all other sizes come with closed-bottom, two-piece closures. (Closures are packaged separately)

03-339-27A

Capacity	O.D. × H	Cat. No.	Pack of 144	Case of
1 dr. (3.7mL)	15 × 45mm	**03-339-27A**	64.70	16 Pk./723.00
2 dr. (7.4mL)	19 × 48mm	**03-339-27B**	73.30	10 Pk./512.50
3 dr. (11.1mL)	21 × 50mm	**03-339-27C**	83.60	8 Pk./468.00
4 dr. (14.8mL)	25 × 52mm	**03-339-27D**	97.20	6 Pk./408.00
5 dr. (18.5mL)	27 × 55mm	**03-339-27E**	109.50	4 Pk./306.50
6 dr. (25.9mL)	29 × 65mm	**03-339-27F**	116.10	3 Pk./244.00

Kimble-Chase Glass Screw-Thread Sample Vials with PTFE/Silicone Septa and Open-Top Polypropylene Closure

03-340-47 Series

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Case of
8mL	17 × 63mm	15-425	60942A 8	**03-340-47A**	144/203.50
12mL	19 × 67mm	15-425	60942A 12	**03-340-47B**	144/229.00
16mL	21 × 72mm	18-400	60942A 16	**03-340-47C**	144/166.70
24mL	23 × 87mm	20-400	60942A 24	**03-340-47D**	144/215.50
40mL	28 × 98mm	24-400	60942A 40	**03-340-47E**	72/108.60

Kimble-Chase Glass Screw-Thread Sample Vials with PTFE Closure

03-340-60

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Case of 144
2mL	12 × 35mm	8-425	60940A 2	**03-340-60**	226.00
4mL	15 × 47mm	13-425	60940A 4	**03-340-60A**	166.20
8mL	17 × 63mm	15-425	60940A 8	**03-340-60B**	197.90
12mL	19 × 67mm	15-425	60940A 12	**03-340-60C**	222.00
16mL	21 × 72mm	18-400	60940A 16	**03-340-60D**	254.00
24mL	23 × 87mm	20-400	60940A 24	**03-340-60E**	291.00

Kimble-Chase Glass Screw-Thread Sample Vials Without Closure

03-340-5 Series

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of 200	Case of 5 Pk.
Clear						
8mL	17 × 60mm	15-425	60810 1760	**03-340-5P**	105.60	385.47
12mL	19 × 65mm	15-425	60810 1965	**03-340-5S**	133.30	493.50
16mL	21 × 70mm	18-400	60810 2170	**03-340-5R**	162.60	601.50
20mL	23 × 85mm	20-400	60810 2385	**03-340-5V**	179.50	665.00
Amber						
8mL	17 × 60mm	15-425	60815 1760	**03-339-17B**	203.00	751.00
12mL	19 × 65mm	15-425	60815 1965	**03-339-17C**	227.00	838.00

Thermo Scientific™ National™ Glass Screw-Thread Sample Vials

Without caps; excellent for sample storage

- Choice of 33 expansion borosilicate clear glass (Type I, Class A) or 51A amber glass
- Eliminate leaching of ions
- Provide consistent pH for duration of sample storage life

03-391-10 Series and 03-391-11 Series

Capacity	O. D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of
Clear					
1/2 dr. (2mL)	12 × 32	8-425	B7999-1	**03-391-10A**	100/30.35
1 dr. (4mL)	15 × 45	13-425	B7999-2	**03-391-10B**	100/26.80
2 1/8 dr. (8mL)	17 × 60	15-425	B7999-3	**03-391-10C**	200/72.80
3 1/4 dr. (12mL)	19 × 65	15-425	B7999-12	**03-391-10D**	200/85.20
4 3/8 dr. (16mL)	21 × 70	18-400	B7999-4	**03-391-10E**	200/97.30
6 dr. (22mL)	23 × 85	20-400	B7999-5	**03-391-10F**	200/129.80
10 7/8 dr. (40mL)	28 × 95	24-400	B7999-6	**03-391-10G**	100/69.10
Amber					
1/2 dr. (2mL)	12 × 32	8-425	B7999-1A	**03-391-11A**	100/36.35
1 dr. (4mL)	15 × 45	13-425	B7999-2A	**03-391-11B**	100/36.70
2 dr. (8mL)	17 × 60	15-425	B7999-3A	**22-045681**	200/103.70
3 1/4 dr. (12mL)	19 × 65	15-425	B7999-12A	**03-391-11D**	200/110.30
4 3/8 dr. (16mL)	21 × 70	18-400	B7999-4A	**03-391-11E**	200/123.00
10 7/8 dr. (40mL)	28 × 95	24-400	B7999-6A	**03-391-11F**	100/76.80

Wheaton™ E-C Borosilicate Glass Screw-Thread Sample Vials with Rubber Lined Caps

- Economically priced vials shrink-wrapped in two packs of 100 each to reduce contamination from corrugated material
- Caps are packed separately
- Choice of amber or clear glass

03-343-4E

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of 200
Clear					
3/8 dr. (1.5mL)	0.47 × 1.37" (12 × 35mm)	8-425	224720	**03-343-3A**	108.70
1/2 dr. (2mL)	0.47 × 1.49" (12 × 38mm)	8-425	224721	**03-343-3B**	113.20
1 dr. (4mL)	0.59 × 1.88" (15 × 48mm)	13-425	224722	**03-343-3C**	113.46
2 dr. (8mL)	0.66 × 2.48" (17 × 63mm)	15-425	224724	**03-343-3E**	117.60
3 dr. (12mL)	0.74 × 2.67" (19 × 68mm)	15-425	224725	**03-343-3F**	118.00
4 dr. (16mL)	0.82 ×2.87" (21 × 73mm)	18-400	224726	**03-343-3G**	141.40
6 dr. (24mL)	0.90 × 3.07" (23 × 78mm)	20-400	224728	**03-343-3J**	179.20
Amber					
3/8 dr. (1.5mL)	0.47 × 1.37" (12 × 35mm)	8-425	224730	**03-343-4A**	141.60
1/2 dr. (2mL)	0.47 × 1.49" (12 × 38mm)	8-425	224731	**03-343-4B**	122.90
1 dr. (4mL)	0.59 × 1.88" (15 × 48mm)	13-425	224732	**03-343-4C**	124.10
2 dr. (8mL)	0.66 × 2.48" (17 × 63mm)	15-425	224734	**03-343-4E**	132.00

Wheaton™ E-C Borosilicate Glass Screw-Thread Sample Vials without Closures

- Economically priced vials shrink-wrapped in two packs of 100 each to reduce contamination from corrugated material
- Caps are packed separately
- Choice of amber or clear glass

02-912-523

Capacity	Outside Dia. × H	Mfr. No.	Cat. No.	Each
Amber				
0.4 dr. (1.5mL)	12 × 32mm	224710	**03-343-1A**	103.90
1 dr. (4.0mL)	15 × 45mm	224712	**03-343-1C**	87.50
2 dr. (8.0mL)	17 × 60mm	224714	**03-343-1E**	99.29
Clear				
0.4 dr. (1.5mL)	12 × 32mm	224700	**03-343A**	75.20
0.5 dr. (2.0mL)	12 × 35mm	224701	**03-343B**	71.41
1 dr. (4.0mL)	15 × 45mm	224702	**03-343C**	73.20
3 dr. (12.0mL)	19 × 65mm	224705	**03-343F**	94.90
4 dr. (16.0mL)	21 × 70mm	224706	**03-343G**	100.90
5 dr. (20.0mL)	28 × 57mm	W224809	**02-912-522**	151.90
6 dr. (24.0mL)	23 × 85mm	224708	**03-343J**	133.70
10.8 dr. (40.0mL)	28 × 95mm	W224810	**02-912-523**	161.30

Wheaton™ E-C Borosilicate Glass Screw-Thread Sample Vials with TFE-Lined Caps

- Economically priced vials shrink-wrapped in two packs of 100 each to reduce contamination from corrugated material
- Caps are packed separately
- Choice of amber or clear glass

03-343-6A

Capacity	O.D. × H	GPI Thread Finish	Mfr. No.	Cat. No.	Pack of 200
Clear					
3/8 dr. (1.5mL)	0.47 × 1.37" (12 × 35mm)	8-425	224740	**03-343-6A**	162.50
1/2 dr. (2mL)	0.47 × 1.49" (12 × 38mm)	8-425	224741	**03-343-6B**	171.45
1 dr. (4mL)	0.59 × 1.88" (15 × 48mm)	13-425	224742	**03-343-6C**	186.24
2 dr. (8mL)	0.66 × 2.48" (17 × 63mm)	15-425	224744	**03-343-6E**	220.73
3 dr. (12mL)	0.74 × 2.67" (19 × 68mm)	15-425	224745	**03-343-6F**	250.50
4 dr. (16mL)	0.82 × 2.87" (21 × 73mm)	18-400	224746	**03-343-6G**	271.50
6 dr. (24mL)	0.90 × 3.07" (23 × 78mm)	20-400	224748	**03-343-6J**	302.00
Amber					
3/8 dr. (1.5mL)	0.47 × 1.37" (12 × 35mm)	8-425	224750	**03-343-7A**	205.00
1/2 dr. (2mL)	0.47 × 1.49" (12 × 38mm)	8-425	224751	**03-343-7B**	214.50
1 dr. (4mL)	0.59 × 1.88" (15 × 48mm)	13-425	224752	**03-343-7C**	235.00
2 dr. (8mL)	0.66 × 2.48" (17 × 63mm)	15-425	224754	**03-343-7E**	251.00

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Prices subject to change.

Wheaton™ Glass Sample Vials in Lab File With Caps Attached

Attached caps help maintain cleanliness

Lab File with partitioned trays provides an easy way to store empty vials or to inventory samples.

- Offer a variety of uses ranging from sample storage to freeze-drying
- Fabricated from glass tubing for uniform sidewall and bottom thickness
- Vials and caps are autoclavable
- Made from low-extractable borosilicate glass that provides superior chemical resistance

Cap and Cap Liners

- Solid top, black phenolic caps
- 14B rubber-lined black phenolic screw cap for aqueous samples
- PTFE/14B rubber-lined black phenolic screw cap for organic samples

ORDERING INFORMATION:
Replacements caps may be purchased separately.

COMPLIANCE:
Clear vials conform to USP Type 1 and ASTM™ E 438 Type 1, Class A requirements. Amber vials conform to USP Type 1 requirements of light transmission.

06-412-12

Size	Color	Liner	Cap Size	Outside Dia. × H	Fits M-T™ Vial File	Vial Rack	Mfr. No.	Cat. No.	Case of
With Caps Attached									
2mL (0.5 dr)	Clear	14B Rubber	8-425	12 × 38mm	06-451-338	06-408-10	224881	**06-408A**	288/187.28
4mL (1 dr)	Clear	14B Rubber	13-425	15 × 48mm	03-336-30	06-408-7	224882	**06-408B**	144/101.71
8mL (2 dr)	Clear	14B Rubber	15-425	17 × 63mm	02-912-820	22-262-955	224884	**06-408C**	144/119.54
16mL (4 dr)	Clear	14B Rubber	18-400	21 × 73mm	NA	NA	224886	**06-412-12**	144/169.90
20mL (5 dr)	Clear	PTFE/14B Rubber	24-400	28 × 60mm	02-912-821	06-408-6	W224589	**02-911-665**	72/179.42
With Writing Patch and Caps Attached									
4mL (1 dr)	Clear	14B Rubber	13-425	15 × 48mm	03-336-30	06-408-7	225012	**03-337-21A**	144/135.16

Wheaton™ Glass Sample Vials in Lab File without Caps

Packaged in partitioned trays, without caps

Partitioned trays provide an easy way to inventory samples or to store empty vials.

- Autoclavable

Clear or Amber Vials

- Clear vials made from low-extractable borosilicate glass that provides superior chemical resistance
- Amber vials made from borosilicate glass that protects light-sensitive products

ORDERING INFORMATION:
Caps available separately

COMPLIANCE:
Clear vials conform to USP Type 1 and ASTM™ E 438 Type 1, Class A requirements. Amber vials conform to USP Type 1 requirements for light transmission.

06-406-9

Size	Color	Cap Size	Dia. × H	Fits M-T File™	Fits Vial Rack	Mfr. No.	Cat. No.	Case of 200
20mL (5 dr)	Clear	24-400	28 × 57mm	02-912-821	06-408-6	224831	**06-412-36**	223.34
40mL (10.8 dr)	Clear	24-400	28 × 95mm	NA	06-408-6	224833	**06-406-9**	257.50
40mL (10.8 dr)	Amber	24-400	28 × 95mm	NA	06-408-6	224836	**06-412-10**	290.00

Wheaton™ Glass Sample Vials with Snap Caps

Cap snaps over special sealing ring to provide effective barrier against moisture

- Excellent storage of hygroscopic materials

03-335-10, -20 Series

Capacity	O.D. × H	Mfr. No.	Cat. No.	Case of
$4^3/_8$ dr. (16mL)	1.18 × 1.57" (30 × 40mm)	225536	**03-335-20A**	144/216.01
$8^1/_8$ dr. (30mL)	1.45 × 1.96" (37 × 50mm)	225543	**03-335-10A**	72/135.20
$8^3/_4$ dr. (32mL)	1.18 × 2.48" (30 × 63mm)	225539	**03-335-20D**	144/242.00
$16^3/_8$ dr. (60mL)	1.77 × 2.36" (45 × 60mm)	225544	**03-335-10B**	72/157.38
$32^1/_2$ dr. (120mL)	1.96 × 3.74" (50 × 95mm)	225546	**03-335-10D**	72/193.80

Wheaton™ V Vial™ with Solid-Top Screw Cap

Conical interior bottoms are designed to provide total downward drainage and maximum retrieval of contents by syringe

- Clear vials are manufactured from Wheaton-33™ low-extractable borosilicate glass
- Amber vials are made of 320 Type I glass for light-sensitive materials

INCLUDES:
14B rubber-lined black phenolic screw caps faced with PTFE

06-444A, 06-444B, 06-444C, 22-281-410, 02-927-005

Capacity	Graduated	O.D. × H.	Cap Size	Mfr. No.	Cat. No.	Pack of
Clear						
0.3mL	Yes	0.511 × 1.3" (13 × 35mm)	13-425	986273	**03-410-020**	12/100.72
0.3mL	No	0.511 × 1.3" (13 × 35mm)	13-425	986253	**06-444A**	12/105.60
1.0mL	Yes	0.511 × 1.73" (13 × 44mm)	13-425	986274	**22-021-813**	12/130.80
1.0mL	No	0.511 × 1.73" (13 × 44mm)	13-425	986254	**06-444B**	12/116.39
2.0mL	Yes	0.66 × 2.40" (17 × 61mm)	15-415	986276	**03-410-029**	12/141.60
2.0mL	Yes	0.78 × 1.73" (20 × 44mm)	20-400	986272	**03-410-030**	12/141.50
2.0mL	No	0.66 × 2.40" (17 × 61mm)	15-415	986256	**06-444C**	12/142.90
2.0mL	No	0.78 × 1.73" (20 × 44mm)	20-400	986261	**02-912-528**	12/140.90
3.0mL	Yes	0.78 × 1.96" (20 × 50mm)	20-400	986277	**22-021-816**	12/158.90
3.0mL	No	0.78 × 1.96" (20 × 50mm)	20-400	986257	**02-912-529**	12/152.30
3.0mL	Yes	0.78 × 2.55" (20 × 65mm)	20-400	986279	**22-021-814**	12/159.30
5.0mL	No	0.78 × 2.55" (20 × 65mm)	20-400	986259	**22-281-410**	12/166.80
10.0mL	No	0.94 × 2.83" (24 × 72mm)	22-400	W986260	**02-927-005**	6/145.30
Amber						
0.3mL	No	0.511 × 1.3" (13 × 35mm)	13-425	W986333	**02-912-530**	12/218.00
1.0mL	No	0.511 × 1.73" (13 × 44mm)	13-425	W986334	**02-927-012**	12/226.00
2.0mL	No	0.78 × 1.73" (20 × 44mm)	20-400	986336	**03-410-032**	12/212.00
3.0mL	No	0.78 × 1.96" (20 × 50mm)	20-400	W986337	**02-912-531**	12/237.00
5.0mL	No	0.78 × 2.55" (20 × 65mm)	20-400	W986339	**02-927-015**	12/257.50

Plastic

Fisherbrand® Polyethylene Sample Vials with Hinged Cap

For general-purpose use

- Durable, lightweight polyethylene
- Unbreakable
- Withstand temperatures to 80°C (176°F)
- Snap-top hinged lids cannot be lost and provide tight friction fit

03-338-1 Series

Capacity	O.D. × H	Cat. No.	Case of 100
0.25 dr. (1mL)	0.35 × 1.25" (9 × 32mm)	**03-338-1A**	80.01
1 dr. (2.5mL)	0.55 × 1.25" (14 × 32mm)	**03-338-1B**	82.00
1.375 dr. (5mL)	0.59 × 1.96" (15 × 50mm)	**03-338-1C**	114.10
2.25 dr. (8mL)	0.66 × 2.20" (17 × 56mm)	**03-338-1D**	108.30
2.75 dr. (7mL)	0.86 × 1.25" (22 × 32mm)	**03-338-1E**	150.54
6.875 dr. (25mL)	0.94 × 2.83" (24 × 72mm)	**03-338-1F**	240.59
13.75 dr. (50mL)	1.18 × 2.91" (30 × 74mm)	**03-338-1G**	323.36

Fisherbrand® Polypropylene Sample Vials with Hinged Cap

High-density polypropylene vials

- Withstand temperatures up to 100°C (212°F)
- Hinged cap provides leak-resistant, airtight seal
- Cap permanently attached to vial
- Flat surface on cap top for sample identification and organization; suitable for bar coding
- Blue vials have fill ridges at 45mL for storing dairy samples
- Opaque 4 oz. (120mL) vial has 1 oz. marked graduations and fill ridge at 100mL for water sampling
- Opaque 8 oz. (240mL) size also graduated

03-341-75E

Capacity	Color	Cat. No.	Case of
2 oz. (60mL)	Opaque	**03-341-75A**	100/53.75
2 oz. (60mL)	Opaque	**03-341-75C**	600/202.00
4 oz. (120mL)	Opaque	**03-341-75E**	100/55.60
4 oz. (120mL)	Opaque	**03-341-75G**	300/138.00
8 oz. (240mL)	Opaque	**03-341-76A**	50/36.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Fisherbrand® Polystyrene Containers

Ideal for storing dry materials, powders, tablets

- Made of polystyrene material
- With snap-on caps

03-338-3 Series

Capacity	I.D. × H	Cat. No.	Case of
3 dr. (11.1mL)	0.74 × 1.88" (19 × 48mm)	**03-338-3A**	144/54.30
5 dr. (18.5mL)	0.86 × 1.88" (22 × 48mm)	**03-338-3B**	144/56.90
7 dr. (25.9mL)	1.02 × 2.0" (26 × 51mm)	**03-338-3C**	144/62.00
10 dr. (37.0mL)	1.02 × 3.23" (26 × 82mm)	**03-338-3D**	144/77.60
13 dr. (48.1mL)	1.18 × 2.20" (30 × 56mm)	**03-338-3E**	144/88.00
15 dr. (55.5mL)	1.25 × 2.51" (32 × 64mm)	**03-338-3F**	144/88.90
20 dr. (74mL)	1.49 × 2.51" (38 × 64mm)	**03-338-3G**	144/110.40
30 dr. (111mL)	1.77 × 2.99" (45 × 76mm)	**03-338-3H**	72/77.70
40 dr. (148mL)	1.77 × 4.01" (45 × 102mm)	**03-338-3J**	72/91.00

Thermo Scientific™ Nalgene™ Sample Vials with Closure; LLDPE

- Straight-sided vials allow easy access for filling and emptying
- Friction fit closures are completely removable and snap in place for convenient vial access
- Translucent walls allow user to see if vials are filled or empty
- Low density polyethylene is impact-resistant and shatter-proof even at temperatures down to -100°C

03-388 Series

Capacity	O.D. × H	Mfr. No.	Cat. No.	Pack of 12	Case of 12 Pk.
5mL	0.944 × 0.984" (24 × 25mm)	6250-0005	**03-388A**	15.20	120.31
12mL	1.062 × 1.417" (27 × 36mm)	6250-0012	**03-388C**	16.93	134.20
18mL	1.062 × 2.086" (27 × 53mm)	6250-0018	**03-388E**	23.55	190.40
28mL	1.062 × 3.346" (27 × 85mm)	6250-9028	**03-388N**	31.90	258.50
50mL	1.456 × 2.795" (37 × 71mm)	6250-9050	**03-388P**	38.70	306.11
75mL	1.456 × 4.212" (37 × 107mm)	6250-9075	**03-388Q**	49.25	390.62

Scintillation

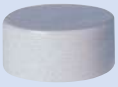
Glass

Fisherbrand® 20mL Borosilicate Glass Scintillation Vials

Fit all common counters

- Potassium-free glass provides consistently low activity counts and excellent light transmission
- Caps fit GPI 22-400 thread finish and are suitable for marking

ORDERING INFORMATION:
O.D. × H (with cap): 1.125 × 2.375" (28 × 61mm). Vials with caps attached are shrink-wrapped in five trays of 100 per case. When caps are separate, vials are shrink-wrapped in five trays of 100 per case, and caps are packed in five polybags of 100 caps each.



03-337-15

Cap Style	Packaging	Cat. No.	Case of 500
White Urea Caps			
Cork-backed metal foil liner	Caps attached	**03-337-5**	297.50
Cork-backed metal foil liner	Caps separate	**03-340-4E**	302.50
Cone-shaped plastic liner	Caps separate	**03-337-7**	405.50
White Polypropylene Caps			
Pulp-backed metal foil liner	Caps attached	**03 337 4**	304.00
Pulp-backed metal foil liner	Caps separate	**03-337-15**	280.50
White Polyethylene Caps			
No Liner	Caps separate	**03-337-14**	270.00

Fisherbrand® 7mL Borosilicate Glass Scintillation Vial

Smaller capacity vial saves in solvent use and disposal

- Volume: 7mL
- Closure: White plastic screw cap with cork-backed metal foil liner

ORDERING INFORMATION:
Packed in five shrink-wrapped trays of 200 vials; five polybags of 200 caps

03-337-26

O.D. × H	GPI Thread Finish	Cat. No.	Case of 1000
0.66 × 2.12" (17 × 54mm)	15-425	**03-337-26**	496.00

Kimble-Chase 7mL Solvent-Saver™ Scintillation Vials

Use same volume of radioactive sample as 20mL vials for savings in solvent and solvent disposal costs

- Choice of urea closure with cork-backed foil liner or polypropylene closure with pulp-backed foil liner
- GPI Thread Finish 15-425

ORDERING INFORMATION:
Caps are packed separately in five polybags of 200 caps each. Vials are shrink-wrapped in plastic film in five trays of 200 vials each.

03-340 Series

O.D. × H (with cap)	Mfr. No.	Cat. No.	Case of
Urea Closure with Cork-backed Foil Liner			
0.66 × 2.24" (17 × 57mm)	74502 7	**03-340-4A**	1000/522.00
0.66 × 2.24" (17 × 57mm)	74502-7	**03-340-4APK**	200/104.40
Polypropylene Closure with Pulp-backed Foil Liner			
0.66 × 2.24" (17 × 57mm)	74503 7	**03-340-128**	1000/394.50

Kimble-Chase 20mL Glass Screw-Thread Scintillation Vials

Manufactured from clear KG-33 borosilicate glass

Variety of cap materials and liners available.

03-340 Series

ORDERING INFORMATION:
Vials are packaged in cellular trays having alpha-numeric coordinates for fast and easy identification. Trays are shrink-wrapped to preserve cleanliness. Each tray contains 100 vials, five trays per case. Caps come in polyethylene bags of 100.

Cap Size	Cap Material	Cap Liner	Mfr. No.	Cat. No.	Case of 500
With Attached Caps					
22mm	White polypropylene	Pulp-backed foil	74504-20	**03-340-4C**	306.00
22mm	White polypropylene	Foamed polyethylene	74505-20	**03-340-4D**	261.50
22mm	White urea	Poly-Seal cone	74516-20	**03-340-4L**	361.50
With Unattached Caps					
22mm	White urea	Poly-Seal cone	74515-20	**03-340-4F**	378.50
Large Opening, With Unattached Caps					
24mm	White urea	Cork-backed foil	74503-20	**03-340-4B**†	325.50
No Caps Included					
22mm	----	----	74506-20	**03-340-129**†	223.00

†*Recommended for use on Packard scintillation vial counters.*

Kimble-Chase Closures for 20mL Glass and Plastic Scintillation Vials

03-340-131

For 20mL Fisherbrand™ and Kimble-Chase scintillation vials, except 03-340-4B and 03-340-129. GPI 22-400 thread.

Mfr. No.	Cat. No.	Case of
White Urea Closure with Polyethylene Cone-shaped Liner		
74525 22400	**03-337-8**	1000/345.00
White Urea Closure with PTFE Liner		
74526 22400	**03-340-131**	500/383.50

Wheaton™ Glass Sampule™ "180" Low-Potassium Vials

Durable and disposable

- 03-341-80 specifically designed for instruments requiring a smaller cap size to prevent jamming

03-340-81A

ORDERING INFORMATION:
Vials are packaged in individual cells in trays of 200 which are shrink-wrapped to prevent contamination. Caps are packed separately in polybags.

GPI Thread Finish	Mfr. No.	Cat. No.	Case of 1000
15-425	986492	**03-340-81A**	404.50
13-425	986491	**03-341-80**	394.50

Wheaton Glass 20mL Scintillation Vials

Manufactured from Wheaton 180 low-potassium borosilicate glass

- Choose from vials with white caps made of polypropylene or urea
- Background counts are consistent and low; ultraviolet transmission is high

03-341-25D

ORDERING INFORMATION:
O.D. × H: 1.125 × 2.375" (28 × 61mm) with cap on; vials are packed in individual cells in five trays of 100 per case

COMPLIANCE:
Meets ASTM™ E438 Type I, Class A and USP Type I standards.

Cap Material	Cap Liner	Cap Size	Mfr. No.	Cat. No.	Case of 500
With Screw Caps Attached to Vials					
Urea	Metal Foil/Cork	22-400	986542	**03-341-25G**	279.95
Urea	Metal Foil/Cork	24-400	986562	**03-340-25N**	302.00
Urea	Polyethylene Cone	22-400	986546	**03-341-25J**	329.24
Urea	Polyethylene Disc	22-400	986548	**03-341-25H**	310.90
Urea	Polyethylene Disc	24-400	986568	**03-340-25P**	315.61
Polypropylene	Foamed Polyethylene	22-400	986540	**03-341-25D**	259.52
Polypropylene	Foamed Polyethylene	24-400	986560	**03-341-25K**	266.33
Polypropylene	Metal Foil/Pulp	22-400	986541	**03-341-25E**	261.61
Polypropylene	Metal Foil/Pulp	24-400	986561	**03-341-25L**	271.04

Plastic

Fisherbrand® 20mL HDPE Scintillation Vials

Fit all common counters

- Provide low background counts and excellent light transmission
- Resist leaking and swelling caused by solvent degradation
- Caps fit GPI 22-400 thread, and are suitable for marking

03-337-23B

ORDERING INFORMATION:
O.D. × H (with cap): 1.125 × 2.375" (28 × 61mm). Vials with caps attached are shrink-wrapped in five trays of 100 per case. When caps are separate, vials are shrink-wrapped in five trays of 100 per case, and caps are packed in five polybags of 100 each. Also available in bulk pack with vials and caps in polybags of 1000 each.

Cap Style	Packaging	Cat. No.	Case of
White urea			
Cork-backed metal foil liner	Caps separate	**03-337-2**	500/217.50
Cone-shaped plastic liner	Caps separate	**03-337-23C**	500/272.50
White polypropylene			
Pulp-backed metal foil liner	Caps separate	**03-337-23B**	500/190.00
Pulp-backed metal foil liner	Caps attached	**03-337-23A**	500/176.90
Pulp-backed metal foil liner	Bulk pack	**03-337-23**	1000/285.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Fisherbrand® 4, 6 and 8mL HDPE ScintiVials™

High-density polyethylene (HDPE) vials with white polypropylene caps

Choose 4mL Scinti-4™ vial, 6mL Scinti-6™ vial, or 8mL Scinti-8™ vial.

- 4mL vial supplied with six polypropylene push caps connected by a plastic string (string "disappears" into cap's notches for snag-free operation in counter)
- 6mL vial available with a "twist-off" cap with unique shouldered design (allowing vial to be centered in 20mL carrier vial) or with a flush cap (for immediate use in miniature vial LS counters)
- 8mL vial supplied with flush cap

14-955-388

Capacity	Cap Style	Outside Dia. × H [with Cap]	Cat. No.	Case of 1000
0.13 oz. (4mL)	String of 6 push caps	0.55 × 2.39" (14.2 × 60.8mm)	**14-955-388**	206.00
0.20 oz. (6mL)	Twist-off cap with shoulder	0.62 × 2.22" (16 × 56.6mm)	**14-955-391**	349.76
0.20 oz. (6mL)	Flush cap	0.62 × 2.22" (16 × 56.6mm)	**14-955-389**	340.43
0.20 oz. (6mL)	Flush (racked)	0.62 × 2.22" (16 × 56.6mm)	**14-955-390**	396.50
0.27 oz. (8mL)	Flush cap	0.68 × 2.44" (17.5 × 62mm)	**14-955-387**	362.50

Fisherbrand® 7mL HDPE Scintillation Vials

Smaller capacity vial saves in solvent use and disposal

- With linerless white polyethylene closure and improved sealing membrane
- Resists swelling caused by solvent degradation
- Dimensions: 17 × 54mm
- GPI Thread Finish 15- 425

03-337-1

ORDERING INFORMATION:
03-337-1 in four trays of 250 vials, with polybag of 250 caps packed in each tray. 03-337-20 in one polybag of 2000 vials and two polybags of 1000 caps each.

O.D. × H	Package Type	GPI Thread Finish	Cat. No.	Case of
17 × 54mm	Trays	15-425	**03-337-1**	1000/337.50
17 × 54mm	Bulk	15-425	**03-337-20**	2000/377.50

Fisherbrand® Scintillation Vials

High-density polyethylene vials with threaded cap

- Translucent white vial with white lid
- Capacity: 18mL
- Made of HDPE to resist leaking and swelling caused by solvent degradation
- Fit all common counters
- Quick-Twist thread seals in one-half turn, no liner needed

14-955-392

Capacity	Packaging	Cat. No.	Case of 500
18mL	5 Trays of 100 vials	**14-955-392**	376.50
18mL	Bulk pack of 500	**14-955-393**	284.99

Wheaton™ 20mL HDPE Liquid Scintillation Vials

Manufactured to precise tolerances to avoid jamming

- Choose from white polypropylene caps or white urea caps
- Made from high-density polyethylene with lightweight walls for increased counting efficiency

ORDERING INFORMATION:
O.D. × H: 1.125 × 2.375" (27 × 61mm) with cap. Minimum neck I.D., 0.5" (12.3mm). Packaged in utility trays with each partitioned tray holding 100 vials. Packed with caps attached.

03-341-72

Cap Material	Liner	Mfr. No.	Cat. No.	Case of
Urea	Metal Foil/Cork	986702	**03-341-72B**	500/228.50
Urea	Polyethylene Cone	986706	**03-341-72D**	500/307.74
Polypropylene	Metal Foil/Pulp	986701	**03-341-72A**	500/191.38
Polypropylene	Foamed Polyethylene	986700	**03-341-72**	500/189.59
Polyethylene	No Liner	986704	**03-341-72C**	500/213.38

Wheaton™ 20mL PET Liquid Scintillation Vials

Offer low permeability to solvents and minimal background counts

- Clarity of glass with the safety of plastic
- Vial can be incinerated; no harmful gas is generated
- Vials offer low permeability to solvents and minimal background counts

ORDERING INFORMATION:
White. Packaged in utility trays with each partitioned tray holding 100 vials. Packed with caps attached or caps packaged separately. Cases of 1000 vials are packed in a single plastic bag with caps in a separate bag.

03-341-73

Cap Material	Liner	Mfr. No.	Cat. No.	Case of
Vials with Caps Attached				
Urea	Metal Foil/Cork	986732	**03-341-73B**	500/258.50
Urea	Polyethylene Cone	986736	**03-341-73D**	500/339.50
Polyethylene	No Liner	986734	**03-341-73C**	500/232.50
Polypropylene	Foamed Polyethylene	986730	**03-341-73**	500/227.53
Polypropylene	Metal Foil/Pulp	986731	**03-341-73A**	500/232.50
Vials with separate caps				
Polypropylene	Metal foil/Pulp	986741	**03-341-71A**	1000/426.77
Urea	Metal foil/Cork	986742	**03-341-71K**	1000/455.50

Vial Accessories

Thermo Scientific™ Dense Storage Options Storage Box

Holds 169 vials in a 13 × 13 grid

- Available in economical cardboard or long lasting plastic cryobox options
- Fits 169 1mL Cryobank tubes for the most dense storage available

12-570-218 (racked vials and screwdriver sold separately)

Description	Mfr. No.	Cat. No.	Price
CryoBox, PC, white with clear lid	5050-0169	**15-350-501**	Pk. of 4/51.50
Nunc Cryobox with 13 × 13 Divider, 132 × 132 × 52mm, White Cardboard with Lid	369640	**12-570-218**	Cs. of 48/ 601.50
Nalgene Cryobox with No Divider, 133 × 133 ×52mm, White PC with Clear Lid	5050-0001	**15-350-55**	Pk. of 4/ 71.79
Nunc 13 × 13 Divider to Fit 133 × 133 × 52mm Cryobox	374001	**12-565-004**	Cs. of 24/ 109.00
Nunc Picker Pen for Cryobank Tubes	369678	**12-570-219**	Cs. of 24/ 53.54
1.0mL Nunc Cryobank Tubes, Blank, with Caps, Sterile, Loose Packed	374115	**12-566-298**	Cs. of 845/ 512.55

Thermo Scientific™ National™ Vial Racks for 2mL and 4mL Vials

Use for storage, sample preparation or transport

- Polystyrene racks feature a clear, see-through lid
- Polystyrene racks can be stacked empty or with any number of vials inserted
- Polypropylene racks can be stacked empty or with a full tray of vials
- Polypropylene rack is durable; can be washed and reused multiple times
- All racks feature alphanumeric indexing for easy location of samples

03-375-24L (top), 03-375-9 (bottom)

Description	Mfr. No.	Cat. No.	Each
For 2mL, 12 × 32mm vials			
Polystyrene with Lid, 100 holes with alphanumeric index	C4011-25	**03-375-24L**	12.90
Polypropylene Rack, 50 holes with alphanumeric index	C4012-25	**03-375-9**	22.80
For 4mL, 15 × 45mm vials			
Polystyrene with Lid, 100 holes with alphanumeric index	C4015-27	**03-375-24Q**	13.09
Polypropylene Rack, 50 holes with alphanumeric index	C4015-25	**03-389A**	34.50

Wheaton™ Glass Sample Vials in Vial File™

Vial File provides a compact, easily accessible means of sample storage

Caps attached to vials.

- Polystyrene case with partitions, foam inserts and alphanumeric indexing card helps organize and protect vials
- Solid-top black phenolic caps: open caps facilitate sample retrieval with syringe
- Vials and caps autoclavable
- Made from low-extractable borosilicate glass that provides superior chemical resistance

COMPLIANCE:
Clear vials conform to USP Type 1 and ASTM™ E 438 Type 1, Class A requirements.

03-336

Size	Color	Graduations	Cap Style	Liner Material	Cap Size	Dia. × H	Mfr. No.	Cat. No.	Case of
2mL (0.5 dr)	Clear	No	Solid Top	14B Rubber	8-425	12 × 38mm	224891	**03-336**	60/88.40
4mL (1.0 dr)	Clear	No	Solid Top	14B Rubber	13-425	15 × 48mm	224892	**03-336-5**	40/71.00

Wheaton™ Vial File™ with Screw Cap

Clear and amber sample vials with a variety of screw cap options

The Vial File provides a compact, easily accessible means of sample storage. The vials are stored in individual partitions within a clear polystyrene case. Foam inserts provide extra protection for the vials.

- Alpha numerical indexing card allows for identification of each sample vial
- Vials are manufactured from borosilicate glass, which provides superior chemical resistance

- Cat. Nos. 02-912-591 and -597 feature open-top black phenolic screw cap for easy access with a syringe
- The PTFE-faced silicone lined screw cap is ideal for low-temperature applications; provides excellent chemical barrier
- Vials and caps are autoclavable

02-912-593

Capacity	Color	Graduations	Screw Cap	Mfr. No.	Cat. No.	Case of
1.5mL	Amber	No	Open-top 8-425 PTFE/Silicone lined black phenolic	W224954	**02-912-591**	60/108.26
2mL	Clear	No	Solid top 8-425 14B rubber lined black phenolic	W224894	**02-912-592**	60/103.60
2mL	Clear	Yes	Solid top 8-425 PTFE/14B rubber lined black phenolic	W224697	**02-912-593**	60/108.26
4mL	Clear	Yes	Solid top 13-425 14B Rubber lined black phenolic	W224895	**02-912-594**	60/83.55
4mL	Clear	Yes	Solid top 13-425 PTFE/14B Rubber lined black phenolic	W224698	**02-912-595**	60/86.62
4mL	Amber	No	Solid top 13-425 14B Rubber lined black phenolic	W224897	**02-912-596**	60/71.14
4mL	Amber	No	Open-top 13-425 PTFE/Silicone lined black phenolic	W224955	**02-912-597**	60/87.90

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Wheaton™ V Vial™ with Solid-Top Screw Cap

Conical interior bottoms are designed to provide total downward drainage and maximum retrieval of contents by syringe

- Clear vials are manufactured from Wheaton-33™ low extractable borosilicate glass
- Amber vials are made of 320 Type I glass for light-sensitive materials

INCLUDES: 14B rubber-lined black phenolic screw caps faced with PTFE

06-444A, 06-444B, 06-444C, 22-281-410, 02-927-005

Capacity	Graduated	O.D. × H.	Cap Size	Mfr. No.	Cat. No.	Pack of
Clear						
0.3mL	Yes	0.511 × 1.3" (13 × 35mm)	13-425	986273	**03-410-020**	12/100.72
0.3mL	No	0.511 × 1.3" (13 × 35mm)	13-425	986253	**06-444A**	12/105.60
1.0mL	No	0.511 × 1.73" (13 × 44mm)	13-425	986254	**06-444B**	12/116.39
2.0mL	Yes	0.66 × 2.40" (17 × 61mm)	15-415	986276	**03-410-029**	12/141.60
2.0mL	Yes	0.78 × 1.73" (20 × 44mm)	20-400	986272	**03-410-030**	12/141.50
2.0mL	No	0.66 × 2.40" (17 × 61mm)	15-415	986256	**06-444C**	12/142.90
2.0mL	No	0.78 × 1.73" (20 × 44mm)	20-400	986261	**02-912-528**	12/140.90
3.0mL	No	0.78 × 1.96" (20 × 50mm)	20-400	986257	**02-912-529**	12/152.30
5.0mL	No	0.78 × 2.55" (20 × 65mm)	20-400	986259	**22-281-410**	12/166.80
10.0mL	No	0.94 × 2.83" (24 × 72mm)	22-400	W986260	**02-927-005**	6/145.30
Amber						
0.3mL	No	0.511 × 1.3" (13 × 35mm)	13-425	W986333	**02-912-530**	12/218.00
1.0mL	No	0.511 × 1.73" (13 × 44mm)	13-425	W986334	**02-927-012**	12/226.00
2.0mL	No	0.78 × 1.73" (20 × 44mm)	20-400	986336	**03-410-032**	12/212.00
3.0mL	No	0.78 × 1.96" (20 × 50mm)	20-400	W986337	**02-912-531**	12/237.00
5.0mL	No	0.78 × 2.55" (20 × 65mm)	20-400	W986339	**02-927-015**	12/257.50

Wheaton™ V Vial™ with Open-Top Screw Cap

Conical interior bottoms are designed to provide total downward drainage and maximum retrieval of contents by syringe

- Clear vials are manufactured from Wheaton-33™ low extractable borosilicate glass
- Amber vials are made of 320 Type I glass for light-sensitive materials

INCLUDES: Silicone-lined, black phenolic screw caps faced with PTFE.

03-410-Series

Capacity	Graduated	O.D. × H.	Cap Size	Mfr. No.	Cat. No.	Pack of
Clear						
0.3mL	No	13 × 35mm	13-425	986283	**03-410-022**	12/93.62
1mL	No	13 × 44mm	13-425	986284	**03-410-024**	12/108.00
1mL	Yes	20 × 44mm	13-425	986294	**03-410-025**	12/116.22
2mL	No	13 × 44mm	20-400	986288	**03-410-031**	12/126.20
5mL	No	20 × 65mm	20-400	986289	**03-410-037**	12/148.20
10mL	No	24 × 72mm	24-400	986290	**03-410-040**	12/128.70
Amber						
1mL	No	13 × 44mm	13-425	986354	**03-410-026**	12/200.47
3mL	No	20 × 50mm	20-400	986357	**03-410-034**	12/217.76
5mL	No	20 × 65mm	20-400	986359	**03-410-038**	12/225.50

Wheaton™ V Vial™ with Screw Cap Finish; No Closures

Ideal for small scale reactions, centrifugation, storage, packaging and shipping of vital samples

- Not graduated
- Amber vials are made of Type I glass for light-sensitive materials
- Conical interior bottoms are designed to provide total downward drainage for maximum sample retrieval

ORDERING INFORMATION: Closures are sold separately.

03-410-035

Capacity	O.D. × H.	Accommodates Closure Size	Mfr. No.	Cat. No.	Pack of
0.3mL	13 × 32mm	13-425	W986313NG	**03-410-023**	12/143.30
1.0mL	13 × 41mm	13-425	W986314NG	**03-410-027**	12/105.20
2.0mL	20 × 41mm	20-400	W986316NG	**03-410-033**	12/144.61
3.0mL	20 × 47mm	20-400	W986317NG	**03-410-035**	12/154.20
5.0mL	20 × 62mm	20-400	W986319NG	**03-410-039**	12/162.33

Wheaton™ V Vial™ with Crimp Top Finish; No Closures

Ideal for small-scale reactions, centrifugation, storage, packaging and shipping of vital samples.

- Not graduated
- Clear vials are manufactured from Wheaton-33™ low extractable borosilicate glass
- Conical interior bottoms are designed to provide total downward drainage for maximum sample retrieval

ORDERING INFORMATION:
Closures are sold separately.

Capacity	O.D. × H	Accommodates Closure Size	Mfr. No.	Cat. No.	Pack of 12
1mL	13 × 41mm	13mm	986214	**03-410-028**	89.00
3mL	20 × 46mm	20mm	986217	**03-410-036**	144.50

Wheaton™ E-Z Vial™ with Step

Available wth or without writing patch

Wheaton Chromatography Vials and accessories are designed for trouble-free operation in most autosamplers. The innovative design of the E-Z Vial and limited volume insert enables the insert to be precisely centered inside the vial.

- Size: 1.8mL, 12 dia. × 32mm H
- Manufactured from clear or amber Type I borosilicate glass
- For use in both GC and HPLC applications
- Limited volume inserts with step available separately

06-451-141

ORDERING INFORMATION:
Vials and caps are sold separately.

Description	Mfr. No.	Cat. No.	Case of 1000
Clear			
1.8mL Vials	224626	**06-451-140**	210.53
Amber			
1.8mL Vials with Writing Patch	224629	**06-451-141**	308.96

Viscosity

Viscometers/Viscosity Baths

Fisherbrand® Cup-Type Viscometers

For quick measurement of the viscosity of liquids such as paint, lacquer, varnish, syrup and oil

- Portable cups measure the viscosity of a liquid in Zahn seconds (the amount of time required for a steady stream to flow from the orifice in the bottom of the cup)
- One-piece, corrosion-resistant stainless steel

15-348-50A

ORDERING INFORMATION:
Capacity, 1.5 oz. (44mL); length, 13.75" (35cm)

Orifice Diameter	Viscometer No.	Uses	Centistoke Range	Cat. No.	Each
0.078" (2.0mm)	1	Very thin oil	18–56	**15-348-50A**	317.00
0.108" (2.7mm)	2	Thin oil or lacquer	40–230	**15-348-50B**	261.03
0.148" (3.8mm)	3	Medium oil or mixed paints	150–790	**15-348-50C**	261.03
0.168" (4.3mm)	4	Heavy mixtures	220–1100	**15-348-50D**	302.88
0.208" (5.3mm)	5	Very heavy mixtures	460–1725+	**15-348-50E**	302.88

Thermo Scientific™ Haake™ Viscotester™ 1 Plus and 2 Plus Rotational Viscometers

One-button operation for quick, reliable tests and comparative measurements

13-874-711

- Can be operated handheld or on support stand
- Viscosity value is shown on easy-to-read digital display
- Push button once to turn unit on; push again to select rotor type and start measurement
- Use almost anywhere — small, battery-operated unit requires no main supply
- Measuring principle: a rotor rotating at constant speed is immersed in sample fluid; fluid's resistance to rotation is a measure of viscosity
- Temperature, up to 150°C; Rotor speed: 62.5rpm
- Standard measuring accuracy of ±5% — also available with increased accuracy of ±1%; contact your Fisher Scientific Customer Service Representative for details

INCLUDES:
Sturdy carrying case, Viscotester, batteries, support stand, three rotors and measuring cup

Model	Viscosity Range	Mfr. No.	Cat. No.	Each
VT1 Plus	1.5 to 330mPas	399-0100	**13-874-711**	2900.00
VT2 Plus	0.3 to 4000dPas	399-0200	**13-874-715**	2900.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ HAAKE™ Viscotester™ 550

Speed-controlled viscometer with cylinder measuring system

Step motor with up to 100 predefined speeds

- Viscosity measurements according to DIN53019/ISO3219
- Substances with small particles (<0.3mm) can be measured
- Time measurements, automatic recording of flow curves, temperature programs (with optional circulator), CD-method (preset deformation) for determination of yield point
- Measurements can be performed manually (push button), internally via programmed methods or computer controlled (with optional accessory)
- Printout of measuring results to printer via RS-232 interface
- Interchangeable rotors for medium and high viscous products
- There are several application specific packages available that are focused on specific application needs:
- DIN package for measurements on liquids for lower to higher viscosities, which are available in larger quantities and easy to clean
- Package for yield point determination
- Suitable for highly thixotropic materials, samples which are difficult to measure (e.g. due to sedimentation) or with bigger particles
- DIN package for measurements on pastes with medium to higher viscosities, which are limited in volume, expensive or difficult to clean
- Package for use of rheomat geometries

APPLICATIONS:
Suitable for extensive quality-control investigations as well as routine measurements. Food: sauces, mayonnaise, mustard, ketchup, thickening agents, stabilizers, starch, pectin. Cosmetic/pharmaceutical: creams, lotions, shampoos, toothpastes, liquid soaps. Paint: water-based and latex paints, bonding agents, resins. Chemical: liquid and paste-like raw materials.

ORDERING INFORMATION: A fully validated IQ/OQ, full compliance with 21CFR Part 11 and data logging is available for the Viscotester 550 (the cost of the IQ/OQ package is not included in the std. pricing).

INCLUDES: Viscotester 550, support stand for base unit, temperature control vessel with connector to circulator, PT100 temperature sensor, MV DIN and SV DIN measuring cup and rotor

No. of Speeds:	
Viscosity Range:	1–1,000,000mPas
Torque Range:	0.1–30mNm
Speed Range:	0.5–800rpm
Temperature Range:	-20 to 100°C
Sample Volume:	8–80cm³
Typical Testing Time:	1 min.
No. of Sensors	2 cups, 2 rotors
Reproducibility	±1%
Voltage/Frequency:	100-230V 50/60Hz
Remarks:	Absolute viscometer

Package type	Mfr. No.	Cat. No.	Each
Cylinder package	362-0022	**13-874-580**	14,445.00
Vane rotor package	362-0042	**13-874-590**	11,495.00

Koehler™ KV3000 and KV4000 Constant-Temperature Viscosity Baths

Simple push-button operation

Kinematic viscosity is of primary importance in the design and selection of a wide range of petroleum products.

22-172-591

- Constant temperature bath series with advanced temperature control circuitry and integrated timing features for convenient, accurate glass capillary viscometry determinations
- Reliable temperature, simple push-button controls and accommodation of up to seven capillary viscometers
- Connection of the built-in cooling coil to tap water or a recirculating water chiller facilitates temperature control at ambient or below ambient temperatures

Integrated Timing

- Model KV3000: Seven individual start/stop timers with displays
- Model KV4000: Integrated LCD microcomputer with start/stop buttons and retention of viscometer tube constants, automatic calculation and display in viscosity units or seconds; temperature control between ambient and 150°C (302°F) and down to 10°C (50°F); 12 or 18" bath depth

Specifications:

- Electrical Reqts: 115V 50/60Hz, single phase 12.6A
- Shipping Weight: 101 lb. (45.9kg) Dimensions: 29L × 25W × 34"H (73.7 × 63.5 × 86.4cm)

COMPLIANCE:
Meet specifications of ASTM D445, D2170, D6074, D6158; IP 71, 319; ISO 3104; DIN 51550; FTM 791-305; NF T 60-100.

Model	Mfr. No.	Cat. No.	Each
KV3000 Viscosity Bath	K23700	**22-172-590**	7840.00
KV4000 Advanced Viscosity Bath	K23702	**22-172-591**	9350.00

THINK GREEN
How Fisher Scientific Thinks Green
Recycle Reduce Reuse
PROTECTING AND PRESERVING THE ENVIRONMENT
Learn how Fisher Scientific helps customers and suppliers protect and preserve the environment by visiting **www.fishersci.com/thinkgreen**.

Viscometer Tubes

Fisherbrand® Glass Kinematic Viscometer Tubes

Cannon™-Fenske type

- Available calibrated (with calibration certificate) or uncalibrated
- Excellent precision
- Borosilicate glass
- For measuring kinematic viscosity of petroleum products by ASTM™ D 445
- Specifications also conform with ASTM D 446
- Minimum sample volume, 7mL
- Require liquid bath depth of 203mm

ORDERING INFORMATION: Holder not supplied.

13-616A

			Calibrated		Uncalibrated	
ASTM Size	Viscosity Range	Approx. Constant†	Cat. No.	Each	Cat. No.	Each
25	0.5 to 2cSt	0.002	**13-617A**	264.50	**13-616A**	173.11
50	0.8 to 4cSt	0.004	**13-617B**	264.50	**13-616B**	173.11
75	1.6 to 8cSt	0.008	**13-617M**	233.00	**13-616M**	173.11
100	3 to 15cSt	0.015	**13-617C**	259.50	**13-616C**	179.20
150	7 to 35cSt	0.035	**13-617D**	259.50	**13-616D**	173.11
200	20 to 100cSt	0.10	**13-617E**	259.50	**13-616E**	179.20
300	50 to 250cSt	0.25	**13-617F**	264.50	**13-616F**	173.11
350	100 to 500cSt	0.5	**13-617G**	264.50	**13-616G**	173.11
400	240 to 1200cSt	1.2	**13-617H**	264.50	**13-616H**	179.20
450	500 to 2500cSt	2.5	**13-617J**	264.50	**13-616J**	173.11
500	1600 to 8000cSt	8.0	**13-617K**	264.50	**13-616K**	173.11
600	4000 to 20,000cSt	20.0	**13-617L**	278.00	----	----

†Approximate constant in cSt/s (centistokes per second).

Fisherbrand® Glass Ubbelohde Calibrated Viscometer Tubes

For measurement of kinematic viscosities of petroleum products according to ASTM™ D 445 and D 446

- Certified accurate (certificate included)
- Excellent precision
- Borosilicate glass
- Minimum sample volume, 11mL
- Require liquid bath depth of 241mm

ORDERING INFORMATION: Holder not supplied

Popular sizes listed; other ASTM™ sizes available. Contact your Fisher Scientific representative for more information.

13-614F

ASTM Size	Viscosity Range	Conversion Factor	Cat. No.	Each
0C	0.6 to 3cSt	0.003	**13-614F**	332.80
1	2 to 10cSt	0.01	**13-614A**	332.80
1C	6 to 30cSt	0.03	**13-614B**	332.80
1B	10 to 50cSt	0.05	**13-614C**	332.80
2	20 to 100cSt	0.1	**13-614D**	332.80
2C	60 to 300cSt	0.3	**13-614E**	341.50
2B	100 to 500cSt	0.5	**13-614G**	332.80
3C	600 to 3000cSt	3.0	**13-614H**	332.80
4	2000 to 10,000cSt	10	**13-614J**	332.80

Fisherbrand® Glass Opaque Calibrated Viscometer Tubes

Cannon™-Fenske opaque type borosilicate

- For measuring viscosity of dark liquids and lubricating oils by ASTM™ D 445
- With calibration certificate
- Minimum sample volume, 12mL
- Require liquid bath depth of 229mm

ORDERING INFORMATION: Holder not supplied. Popular sizes listed; other sizes available. Contact your Fisher Scientific representative for more information.

13-615-5A

ASTM Size	Viscosity Range	Approx. Constant	Cat. No.	Each
25	0.4 to 2cSt	0.002cSt/sec.	**13-615-5A**	305.00
50	0.8 to 4cSt	0.004cSt/sec.	**13-615-5B**	305.00
100	3 to 15cSt	0.015cSt/sec.	**13-615-5C**	305.00
150	7 to 35cSt	0.035cSt/sec.	**13-615-5D**	305.00
200	20 to 100cSt	0.10cSt/sec.	**13-615-5E**	305.00
300	50 to 250cSt	0.25cSt/sec.	**13-615-5F**	305.00
350	100 to 500cSt	0.5cSt/sec.	**13-615-5G**	305.00
400	240 to 1200cSt	1.2cSt/sec.	**13-615-5H**	305.00
450	500 to 2500cSt	2.5cSt/sec.	**13-615-5J**	305.00

Fisherbrand® Glass Vacuum Viscometer Tubes

Cannon™-Manning type

- Includes calibration certificate
- For measuring highly viscous materials such as asphalt at 60°C (140°F) per ASTM™ D 2171
- Minimum sample volume, 6mL
- Require liquid bath depth of 180mm

ORDERING INFORMATION: Holder not supplied. Smaller ASTM™ sizes available; contact your customer service representative.

13-617 Series

		Approx. Constant			
ASTM Size	Viscosity Range	Bulb B	Bulb C	Cat. No.	Each
10	36 to 800Ps	2 Ps/sec.	0.6 Ps/sec.	**13-617-1**	255.03
11	120 to 2400Ps	6 Ps/sec.	2 Ps/sec.	**13-617-2**	255.03
12	360 to 8000Ps	20 Ps/sec.	6 Ps/sec.	**13-617-3**	261.50
13	1200 to 24,000Ps	60 Ps/sec.	20 Ps/sec.	**13-617-4**	255.03
14	3600 to 80,000Ps	200 Ps/sec.	60 Ps/sec.	**13-617-5**	255.03

Viscosity Accessories

Kimble-Chase™ Varnish Viscometer Tubes

For rough control work

Flat bottom with graduation lines at 27, 100 and 108mm from the outside bottom.

ORDERING INFORMATION: Approximate I.D., 0.42" ±0.005 (10.7mm ±0.125). Length, 4.5" (11.4cm)

13-339

Description	Mfr. No.	Cat. No.	Pack of 36	Case of 4 Pack
Viscometer Tube	46463 1075	**13-339**	131.30	384.50

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Before You Buy **Laboratory Glassware Washers**

Protecting your laboratory environment
LABCONCO

Laboratory Glassware Washers Are Not All Made Alike:

- When ordering a washer, ask what the price includes. Labconco's FlaskScrubber® includes the lower spindle rack. Most laboratory washers don't include racks, therefore they need to be added as additional equipment.
- Forced air drying is standard in Labconco washers and the FlaskScrubber Vantage Series washer offers a forced air drying system incorporating a 99.97% efficient HEPA filter to remove airborne particulates.
- Labconco washers include a standard built-in pure water pump so pressurized water isn't required.

Features To Look For

- Labconco Glassware Washers have specialized design features to meet the laboratory's demand for superior cleaning and convenience.
- Rack(s) included
- Forced air drying
- Washers made of 90% recyclable stainless steel
- Base stands available for ergonomic convenience
- Dual pumps, one for washing and one for draining, reduce potential for cross-contamination
- Full two year warranty
- Made in the U.S.A.

Exclusive Features

- SteamScrubbers® include top & bottom open racks to accommodate accessory inserts.
- FlaskScrubbers include a spindle rack that holds up to 36 pieces of primarily narrow-necked glassware.
- SteamScrubber and FlaskScrubber 33 Washers have lower heights to fit underneath ADA height counters.
- FlaskScrubber Vantage® Series Glassware Washers have additional monitoring and control features beneficial to contamination-sensitive research.
- Built-in purified water pump is included.

Flexible and Energy Efficient

- All racks (open and spindle) are interchangeable among Labconco Washers.
- A breadth of accessory baskets and inserts are available for each washer type.
- User control in selecting parameters including time, temperature, steam and pure water

User-set delayed start allows washer to be run during off hours to save energy

- Automatic washing uses less water than hand washing

Specifications

FEATURE	FLASKSCRUBBER	STEAMSCRUBBER	FLASKSCRUBBER VANTAGE SERIES
Built-in Purified Water Pump -— Up to 6 rinses	Yes	Yes	Yes
Water Temperature up to 199˚ F (93˚ C)	Yes	Yes	Yes
Spindle Rack—Standard	Yes	Accessory	Yes
Built-in forced air drying	Yes	Yes	Yes
Factory set cycle programs	7 or 10	7 or 10	10
User-set delayed start up (up to 8 hours)	Yes	Yes	Yes
Viewing window with LED interior light	Optional	Optional	Yes

Fisher Scientific™ Portable Electric Labware Washer

Compact and installs in any sink in seconds with no special plumbing or electrical requirements

13-641-705 shown with brushes 13-641-712 (back), 13-641-711 (middle), 13-641-708 (left), 13-641-707 (front) and 13-641-732 (right) (all sold separately). Note: For illustration purposes only; it is recommended that only one brush is used at a time.

- Heavy-duty motor, bronze bearings and polished 11-gauge stainless-steel housing ensure high quality and reliability
- Partially submersible, sealed motor helps to maintain warm water temperature
- Cleaning base has enough ports to hold five brushes in a wide variety of styles and sizes; brushes spin quickly to remove residue and other substances from many types of labware quickly and easily
- Best results obtained using a low suds liquid detergent
- Made in the U.S.A.

INCLUDES:
Three-wire 8' (2.4m) cord with switch.

13-641-706 includes four brushes: Small Flask Brush, 250mL; Standard Tall Brush: 8½" (21.6cm); Test Tube Brush; and Beaker Brush, 250mL. (13-641-705 does not include brushes). Other accessory brushes sold separately.

COMPLIANCE:
ETL tested; UL, CE, NSF and CSA certified

Dimensions (L × W × H)	12 × 8 × 12" (30.5 × 20.3 × 30.5cm)
Shipping Weight	26 lb. (11.8kg)
Electrical Reqts.	115V
Model	With four brushes
Cat. No.	**13-641-706**
Each	1025.37
Model	Without brushes
Cat. No.	**13-641-705**
Each	887.35

Fisherbrand® Labware Washer Brushes

Heavy-duty, long-life brushes are designed to give optimum cleaning results

13-641-707

- Some brushes are stiffer on top and softer on the sides for better cleaning
- Variety of shapes and sizes to fit most labware
- Made in the U.S.A.

Description	Cat. No.	Each
Test Tube Brush	**13-641-707**	34.51
Small Flask Brush, 125mL	**13-642-706**	39.50
Small Flask Brush, 250mL	**13-641-708**	39.50
Flask Brush, 500mL	**13-641-712**	41.46
Standard Tall Brush, 8.5" (21.6cm)	**13-641-710**	31.98
Beaker Brush, 50mL	**13-641-732**	36.72
Beaker Brush, 100mL	**13-641-713**	37.18
Beaker Brush, 250mL	**13-641-711**	31.98
Beaker Brush, 600mL	**13-641-709**	36.98
Beaker Brush, 1000mL	**13-641-725**	36.62

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Prices subject to change.

Labconco™ Glassware Washers, FlaskScrubber™ and SteamScrubber™

Washers provide thorough, efficient and economical cleaning that meets demanding laboratory standards

Ideal for college and university, government, pharmaceutical and industrial labs or any facility utilizing reusable glassware. Choose from single-rack FlaskScrubber series models or dual-rack SteamScrubber models. Accessory spindle and open racks are designed specifically for laboratory glassware and are interchangeable between models.

Operating Features

- Achieve higher water temperatures for enhanced washing, faster drying and sanitizing
- LCD information center for customizing cycles and monitoring operations, including internal water temperature (°C or °F) and alarms
- High water circulation rates for thorough cleaning: 96 gal./min. (363L/min.) when operated on 115V 60Hz and 112 gal./min. (424L/min.) on 230V 50/60Hz
- Dual pumps: one for washing and one for draining, to reduce potential for cross-contamination
- Built-in purified water pump brings unpressurized or pressurized purified water into tank for up to six pure water rinses
- Built-in steam generator produces hot vapor to penetrate and remove dried residue for cleaner glassware
- Manual-fill dispensers for detergent (powder or liquid) or rinse aid solution
- Two user-set cycle programs
- User-set delayed start (up to 8 hours)
- Optional tempered safety glass viewing window with 25w interior light
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail

Structural Features

- Type 304 brushed stainless-steel door, tank and upper and lower wash arms
- Freestanding models have stainless-steel exterior sides and top
- One-piece, stainless-steel, fine mesh particle drain filter traps debris in tank to protect pumps
- Four leveling feet
- 0.375" female NPT inlet fitting for hot water tap connection
- Factory-installed drain hose and band clamp

FlaskScrubber Washers

- Outfitted for washing narrow-necked flasks
- Supplied with one Type 304 stainless-steel spindle rack with 36 detachable large spindles, 18 holders, 36 clips and 10 interchangeable small spindles
- Built-in forced-air drying through the spindles and throughout the tank up to 99 min. and programmable from 38° to 70°C (100° to 150°F)
- Factory-set cycle programs: For 208/230V models, 10 (add INTENSE, INTENSE PLUS and EXTREME)

FlaskScrubber Vantage™ Series Washers

- Factory-set cycle programs: 10
- Automatic dispensers for liquid detergent dispenser (with peristaltic pump) and rinse aid
- Water conductivity monitor to confirm rinse water cleanliness and effective detergent removal
- Built-in HEPA[1]-filtered forced-air drying through the spindles and throughout the tank up to 99 min. and programmable from 38° to 70°C (100° to 158°F)
- RS-232 port for monitoring washing operation on user-supplied computer or recorder
- Other features same as FlaskScrubber washers

SteamScrubber Washers

- Supplied with upper and lower Type 304 open stainless-steel racks for washing wide-mouth glassware
- Built-in forced air drying up to 99 min. and programmable from 38° to 70°C (100° to 158°F)
- Upper rack has additional wash arm and side release latches for easy removal
- Factory-set cycle programs: For 208/230V models, 10 (add INTENSE, INTENSE PLUS and EXTREME)

10-359 Series

ORDERING INFORMATION:
Most accessories are interchangeable between models and are sold separately. Onsite validation is available through Labconco; contact your Fisher Scientific Sales Representative for details

INCLUDES:
One spindle rack (FlaskScrubber and FlaskScrubber Vantage Series) or two open racks (SteamScrubber Series)

WARRANTY: Two years, parts and labor

COMPLIANCE: ETL listed

CERTIFICATIONS: CE marked

Inlet Water Temperature, Minimum	49°C (120°F)
Inlet Water Temperature, Recommended	60°C (140°F)
Purified Water Pressure, Minimum	0psi
Water Consumption per Fill	3.4 gal. (13L)
Hot Tap Water Pressure at Washer	20 – 120psi
Hot Tap Water Flowrate	1.25 gal./min. (4.7L/min.)
Connection	0.38" O.D. copper tubing for connection to water inlet valve
Purified Water Flowrate	Purified water with supply piping min. 3/8" I.D. to permit at least 0.9 gal./min. (3.4L/min.) flow

Contd. on next page

Labconco™ Glassware Washers, FlaskScrubber™ and SteamScrubber™, Contd.

Style	Electrical Reqts.	Max. Internal Water Temp.	Viewing Window and Light	Overall Dimensions (L × W × H)‡	Shipping Wt.	Mfr. No.	Cat. No.	Each
FlaskScrubber Washers								
Undercounter	115V 60Hz, 16A	82°C (180°F)	No	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4420320	**10-359-108**	10,073.23
	208/230V 50/60Hz, 12A	93°C (199°F)	No	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4420321	**10-359-109**	10,490.32
	115V 60Hz, 16A	82°C (180°F)	Yes	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4420330	**10-359-110**	10,829.09
	208/230V 50/60Hz, 12A	93°C (199°F)	Yes	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4420331	**10-359-111**	11,370.00
	115V, 60Hz, 16A	82°C (180°F)	No	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578120	**10-359-185**	9880.00
	208/230V, 50/60Hz, 12A	93°C (199°F)	No	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578121	**10-359-186**	10,285.00
	115V, 60Hz, 16A	82°C (180°F)	No	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578130	**10-359-187**	10,620.00
	208/230V, 50/60Hz, 12A	93°C (199°F)	No	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578131	**10-359-188**	11,260.00
Freestanding	115V 60Hz, 16A	82°C (180°F)	No	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	239 lb. (108kg)	4420420	**10-359-112**	10,509.49
	208/230V 50/60Hz, 12A	93°C (199°F)	No	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	239 lb. (108kg)	4420421	**10-359-113**	10,931.37
	115V 60Hz, 16A	82°C (180°F)	Yes	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	239 lb. (108kg)	4420430	**10-359-114**	11,273.07
	208/240V 50/60Hz, 12A	93°C (199°F)	Yes	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	239 lb. (108kg)	4420431	**10-359-115**	11,681.62
FlaskScrubber Vantage Series Washer								
Freestanding	208/230V 50/60Hz, 12A	93°C (199°F)	Yes	27.5 × 32.25 × 36.25" (69.9 × 81.8 × 91.9cm)	260 lb. (118kg)	4540031	**10-359-116**	16,452.60
SteamScrubber Washers								
Undercounter	115V 60Hz, 16A	82°C (180°F)	No	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4400320	**10-359-100**	7870.00
	208/230V 50/60Hz, 12A	93°C (199°F)	No	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4400321	**10-359-101**	8203.87
	115V 60Hz, 16A	82°C (180°F)	Yes	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4400330	**10-359-102**	8468.90
	208/230V 50/60Hz, 12A	93°C (199°F)	Yes	27.38 × 24.12 × 36.12" (69.6 × 61.2 × 91.7cm)	206 lb. (93kg)	4400331	**10-359-103**	8873.44
	115V, 60Hz, 16A	82°C (180°F)	No	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578020	**10-359-181**	7635.00
	208/230V, 50/60Hz, 12A	93°C (199°F)	No	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578021	**10-359-182**	8045.00
	115V, 60Hz, 16A	82°C (180°F)	Yes	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578030	**10-359-183**	8385.00
	208/230V, 50/60Hz, 12A	93°C (199°F)	Yes	27.4 × 24.1 × 34.9" (69.6 × 61.2 × 88.6cm)	206 lb. (93kg)	4578031	**10-359-184**	8785.00
Freestanding	115V 60Hz, 16A	82°C (180°F)	No	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	235 lb. (107kg)	4400420	**10-359-104**	8223.04
	208/230V 50/60Hz, 12A	93°C (199°F)	No	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	235 lb. (107kg)	4400421	**10-359-105**	8644.08
	115V 60Hz, 16A	82°C (180°F)	Yes	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	235 lb. (107kg)	4400430	**10-359-106**	8988.48
	208/230V 50/60Hz, 12A	93°C (199°F)	Yes	27.5 × 24.25 × 36.25" (69.9 × 61.5 × 91.9cm)	235 lb. (107kg)	4400431	**10-359-107**	9225.00

† HEPA filter is 99.97% efficient on particles 0.3 micron.
‡ With door closed. Height shown is with leveling feet fully extended; minimum height is approx. 2" lower.

ACCESSORIES

Base Stands

For use with Labconco™ FlaskScrubber™ and SteamScrubber™ Washers

Elevate washers 17" (43.2cm) for convenient loading

- Type 304 stainless-steel construction
- For stationary use
- Includes storage compartment(s) with door, leveling feet and instructions
- No assembly required

10-359-126, shown with washer not included.

For Use with	No. of Storage Compartments	L × W × H	Mfr. No.	Cat. No.	Each
Freestanding FlaskScrubber or SteamScrubber washers	1	27 1/2 × 24 1/4 × 17"H (70 × 61 × 43"H)	4595400	**10-359-127**	1006.21
FlaskScrubber Vantage™ Series washers	2	27 1/2 × 32 1/4 × 17"H (70 × 82 × 43"H)	4595500	**10-359-126**	1238.00

Fisher Scientific

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Prices subject to change.

ACCESSORIES

Washer Racks

For use with Labconco™ FlaskScrubber™ and SteamScrubber™ Washers

Type 304 stainless-steel construction

10-359-117

Upper Spindle Rack

- Provides direct injection cleaning and forced air drying through the spindles
- Accommodates glassware up to 8.9"H (22.6cm)
- With side release latches and side rails for tank side wall installation
- Includes 30 removable spindles, 30 adjustable-height clips, 10 small spindles, 15 plastic glassware folders, tool, 30 nylon plugs and wash arm
- Spindles may be removed and plugged to accommodate various accessory inserts (sold separately)

Upper and Lower Standard Racks

- Supplied with SteamScrubber washers
- Can be used with FlaskScrubber and FlaskScrubber Vantage™ Series washers
- With release latches and wash arm
- Accessory basket inserts (sold separately) can be added to suit glassware washing needs

Description	For Use with	L × W × H	Mfr. No.	Cat. No.	Each
Upper Spindle Rack	FlaskScrubber and FlaskScrubber Vantage Series	$20^{7}/_{8} \times 20 \times 7^{1}/_{4}$" (53 × 51 × 18cm)	4595600	**10-359-125**	2378.10
Upper Standard Rack	SteamScrubber	$20^{7}/_{8} \times 20^{1}/_{4} \times 6$" (53 × 51 × 15cm)	4587000	**10-359-117**	641.26
Lower Standard Rack	SteamScrubber, FlaskScrubber and FlaskScrubber Vantage Series	$21 \times 21^{1}/_{8} \times 3^{1}/_{2}$" (53 × 54 × 9cm)	4588500	**10-359-118**	407.59

Plastic Glassware Holder

Fits onto spindles to grip glassware and hold it in place

With Type 304 stainless-steel height adjustment clip

- Rack Location: Lower, Upper

10-359-090

Description	Mfr. No.	Cat. No.	Each
With Type 304 stainless-steel height adjustment clip	4585204	**10-359-090**	14.56

Test Tube Holders

Add-on accessory to the lower test tube spindle rack

Keeps tubes upright

- Constructed of Type 304 stainless-steel

10-359-153

Description	Mfr. No.	Cat. No.	Each
Accommodates 150 each 10-13mm OD tubes	4546100	**10-359-153**	232.00
Accommodates 75 each 14-20mm OD tubes	4546200	**10-359-154**	234.50

Test Tube Spindle Racks

May be used in place of Lower Standard Rack in any SteamScrubber™ or Lower Spindle Rack in any FlaskScrubber™ or FlaskScrubber Vantage™ Series Washer

Holds: Test tubes, vials and other laboratory glassware containers (up to 10mm in diameter)

- Water and detergent are injected through spindles to clean and rinse tubes
- Hot air is forced through spindles to dry test tubes in FlaskScrubber or FlaskScrubber Vantage Series Washer

Test Tube Spindle Racks

- Material: 304 stainless steel
- Riser elevates tubes 3/4" (19mm) from bottom of the spindles for proper drainage
- Note: Spindle Rack Conversion Kit requires Lower Standard Rack (not included).

INCLUDES: 150 each spindles, 2 H × $^{1}/_{8}$" O.D. (5cm × 3mm) with nylon fasteners and riser

Description	W × D × H	Mfr. No.	Cat. No.	Each
Spindle rack	21 × 21.5 × 5" (53.34 × 54.6 × 12.7cm)	4546000	**10-359-151**	2447.26
Spindle rack conversion kit	17.5 × 12.7 × 4.2" (44.45 × 32.26 × 10.67cm)	4546001	**10-359-152**	2170.00

Waste Disposal

Fisherbrand® Sharps-A-Gator™ Point-of-Use Sharps Containers

Horizontal loading, nonmechanical sharps opening provides one-hand, one-step, no-touch sharps depositing

- For use in patient rooms and all patient-care areas
- Opening design impedes hand entry to reduce risk of needle sticks when disposing of sharps
- Clear tops and translucent containers allow you to monitor fill level
- Puncture-resistant, durable polypropylene
- Can be autoclaved or incinerated
- Clearly marked with biohazard label

Top: 14-827-129, bottom: 14-827-122

Type	Capacity	Container Color	Mfr. No.	Cat. No.	Each	Case of
High	5 qt. (4.5L)	Red	31323176	**14-827-122**	7.69	30/188.64
Low	3.5 gal. (13.2L)	Translucent Red	31322723	**14-827-129**	12.92	10/107.22

Fisherbrand® Sharps-A-Gator™ Sharps Containers

Puncture-resistant with wide rectangular opening for horizontal loading of needles

- General-purpose sharps container with clear locking lid and marked with biohazard label
- Made from puncture-resistant polypropylene that can be autoclaved or incinerated
- Easily mount on walls and carts, nest to conserve storage space

22-037-959

COMPLIANCE:
Used to comply with OSHA standards for sharps and biohazard waste collection.

Capacity	Color	Cat. No.	Each	Case of
1 gal. (3.8L)	Red	**14-827-63**	7.32	32/188.49
2 gal. (7.6L)	Red	**22-037-959**	4.56	20/76.08
7 gal. (26.5L)	Red	**14-827-104**	25.98	10/221.48
7.5 gal. (28L)	Red	**14-827-105**	23.02	6/117.73
10 gal. (38L)	Red	**14-827-71**	31.91	6/163.20

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Fisherbrand® Glass-Disposal Boxes

Disposal boxes keep glass separate from other waste

- Sturdy, corrugated cardboard
- With tough 2mm-thick polyethylene liner
- Identifying graphics with instructions
- Unique integral lid provides added safety

12-009-7B (Holder 17-988-451 sold separately)

Model	L × W × H	Cat. No.	Pack of 6
Benchtop	8 × 8 × 10" (20 × 20 × 25cm)	**12-009-7B**	79.28
Intermediate	12 × 12 × 20" (30 × 30 × 51cm)	**17-988-448**	139.00
Floor	12 × 12 × 27" (30 × 30 × 69cm)	**12-009-7A**	122.90

ACCESSORIES

Fisherbrand® Acrylic Box Holders

Durable for repeated use

- Provide extra protection for glass-disposal boxes
- When box is full, top and center shield remove easily, while sturdy bottom tray stays in place to protect box during transport to disposal area
- Also accept heavy-duty plastic disposal bags

For Model	L × W × H	Cat. No.	Each
Benchtop	10 × 10 × 10.75" (25.4 × 25.4 × 27.3cm)	**17-988-451**	206.00
Intermediate	13 × 13 × 20.25" (33 × 33 × 52.1cm)	**17-988-450**	386.50
Floor	13 × 13 × 27.75" (33 × 33 × 70.5cm)	**17-988-449**	571.00

Fisherbrand® Burn-up Bin™ Biohazard Waste Boxes

Store flat, assemble in seconds

- Corrugated cardboard — single use
- 2mil polyliner safely holds biohazard waste
- Tight-fitting lid has flap opening to accept material; to dispose, simply close lid and transfer filled box to incinerator
- Graphics and biohazard symbols readily identify contents, encourage proper use

12-009-8A

Model	L × W × H	Opening Dia.	Mfr. No.	Cat. No.	Case of 6
Benchtop	8 × 8 × 10" (20 × 20 × 25cm)	5.25" (13.3cm)	797025	**12-009-8B**	55.50
Floor	12 × 12 × 27" (30 × 30 × 69cm)	7" (17.8cm)	797045	**12-009-8A**	80.00

*Trademark. See Trademarks at www.fishersci.com
Prices subject to change.

Thermo Scientific™ Nalgene™ Large Waste Containers with Cover; Polypropylene

Ideal for holding and sterilizing refuse, clothing, equipment, labware and contaminated material

- Friction-fit closure fits securely
- Molded-in handgrips make lifting easy
- Autoclavable/biohazard

COMPLIANCE:
Meet OSHA Standard 29 CFR Part 1910.1030 for use as protection against bloodborne pathogens

NOTES:
Autoclave upright with lid on.

15-353-5

Capacity	O.D. × H	Mfr. No.	Cat. No.	Each	Case of 4
6 gal. (23L)	11 ×18" (28 × 46cm)	6920-0060	**15-353-5**	318.95	839.14
12 gal. (45L)	14 × 23" (36 × 58cm)	6920-0120	**15-353-6**	493.72	1299.43

Thermo Scientific™ Nalgene™ Safety Waste Funnel Systems

For temporary waste containment on the bench or under a hood

- With either HDPE safety waste funnel and high-density polyethylene or fluorinated high-density polyethylene waste container, polypropylene closure and funnel adapter, polypropylene and PTFE vent plug
- Large-diameter funnel has attached cover with Easy-Snap™ safety latch to minimize accidental spills and volatile emissions
- Funnel easily unscrews from polypropylene closure/funnel adapter for cleaning and quicker access
- Closure/adapter includes vent with polypropylene/PTFE vent plug that releases pressure during pouring and prevents emissions during use
- Adapter can also connect to external syringe filter
- Removable polypropylene screen insert fits at bottom of funnel to trap large particles such as stir bars
- Resist common lab solvents, acids and bases
- Not resistant to long-term UV light exposure
- Includes either a 4L HDPE Nalgene bottle or 10L FLPE Nalgene Carboy

ORDERING INFORMATION:
Secondary containers (sold separately) should be used with Safety Waste Systems during transport, transfer or storage.

INCLUDES:
1.125 gal. (4L) HDPE or 2.625 gal. (10L) fluorinated HDPE container, removable funnel with lid, closure/funnel adapter, filter and screen insert.

NOTES:
These systems are not safety cans as defined by OSHA guidelines and are designed for temporary waste disposal only. Waste should be disposed of prior to 90 days of initial waste accumulation.

10-437-36, 10-437-35

Capacity	Closure Size	Funnel Top Dia. × Stem L	Container Material	Mfr. No.	Cat. No.	Each
1.125 gal. (4L)	38-430	5.5 × 7.125" (14 × 18cm)	HDPE	6379-0004	**10-437-35**	120.80
2.625 gal. (10L)	83B	10 × 10.625" (25 × 27cm)	FLPE	6379-0010	**10-437-36**	172.20

Thermo Scientific™ Nalgene™ Safety Waste Funnel Systems

For use with Nalgene Safety Waste Systems

- With polypropylene closure and funnel adapter, polytetrafluoroethylene vent membrane
- Vent system helps reduce fumes and splashing
- Removable neck screen traps large particles like stir bars
- Available in 10" diameter funnel with 83B closure and 5.5" funnel with 38-430 closure
- For safe transfer of solvent, chemical and biological waste

INCLUDES:
HDPE funnel with attached lid, polypropylene closure/funnel adapter, screen insert, polypropylene/PTFE 0.45µm vent plug and filter.

10-437-34

Closure Size	Funnel Top Dia. × Stem L	Mfr. No.	Cat. No.	Case of
38-430	5.5 × 2.2" (14 × 5.6cm)	6378-0004	**10-437-33**	4/387.00
83B	10 × 2.2" (25.4 × 5.6cm)	6378-0010	**10-437-34**	2/236.00

Bel-Art™ Scienceware™ Poxygrid™ Benchtop Biohazard Bag Holder Kit

Economical and convenient, this benchtop disposal system is perfect for collecting pipet tips, microcentrifuge tubes, etc. during daily use

- Rectangular steel wire frame holds a polyethylene bag 22 × 28cm (8.5 × 11"); coated in easy-to-clean, durable, orange color epoxy
- Snug-fitting polypropylene plastic cover helps hold the bag securely in place
- Reusable; can be cleaned by hand or in automated dish washers; autoclavable
- Cover provides compliance with 29 CFR 1910.1030(d)(2)(xiii)(A), which requires a cover on any container used to store, transport or ship biohazardous wastes
- Kit includes 100 Bench Top Biohazard Bags (03-410-591); can also be used with Clavies Autoclavable Bags (01-815-6)

11-394-303

Specifications	
Description	Bag Holder
Accepts Bag No.	01-828A, 01-828-031, 01-830A, 01-826-1, 01-827A, 01-829A, 01-815-1
L × W × H	8.6 × 12.7 × 21.6cm (3.4 × 5 × 8.5")
Min. Bag Width	21.6cm (8.5")

Description	Mfr. No.	Cat. No.	Each
Poxygrid Bench-Top Biohazard Bag Holder Kit	F13193-0500	**11-394-310**	42.05
Cover for Bag Holder	131930102	**11-394-303**	10.31

Eagle™ Step-On Biohazard Waste Containers

Durable and fire-safe

- Foot lever opens container for hands-free operation
- HDPE construction won't rust or dent
- Labeled to advise workers of potential biohazards

18-880C, 18-880B, 18-880A

ORDERING INFORMATION:
Use with Fisherbrand™ Biohazard Autoclavable Bags, sold separately on www.fishersci.com.

COMPLIANCE:
Comply with 29CFR1910.1030 requirements for exposure to bloodborne pathogens.

CERTIFICATIONS:
FM approved.

Capacity	L × W × H	Bag Size	Mfr. No.	Cat. No.	Each
6 gal. (23L)	16.5 × 13.5 × 16" (42 × 34 × 41cm)	23 × 24" (58 × 61cm)	943BIO	**18-880A**	106.20
10 gal. (38L)	22 × 18 × 18" (56 × 45.7 × 46cm)	36 × 30" (91 × 76cm)	945BIO	**18-880B**	126.70
14 gal. (53L)	22 × 18 × 21" (56 × 45.7 × 53cm)	36 × 30" (91 × 76cm)	947BIO	**18-880C**	140.70

Rubbermaid™ Step-On Waste Containers

For hands-free, sanitary waste management

- Quiet, heavy-duty foot pedal conveniently opens durable plastic lid
- Seamless construction and rounded corners make disinfecting easier
- Overlapping, self-closing lid shuts tight to contain odors
- Puncture resistant and leakproof; won't rust or chip

15-353-23

ORDERING INFORMATION: Available in white; contact your Fisher Scientific Customer Service Representative for details.

COMPLIANCE: Assists in complying with OSHA 29CFR1910.1030 Occupational Exposure to Bloodborne Pathogens.

CERTIFICATIONS: FM and California State Fire Marshal approved for fire safety.

Capacity	Color	L × W × H	Mfr. No.	Cat. No.	Each
Plastic Containers					
8 gal. (30.3L)	Red	16.75 × 15.75 × 17.1" (41.3 × 40 × 43.5cm)	FG614300RED	**15-353-23**	205.00
12 gal. (45.4L)	Red	16.75 × 15.75 × 23.6" (41.3 × 40 × 60cm)	FG614400REDX	**15-353-24**	200.00
	Beige		FG614400BEIG	**19-046-705**	196.70
18 gal. (68.1L)	Red	19.75 × 16.1 × 26.5" (50.2 × 41 × 67.3cm)	FG614500RED	**15-353-25**	293.00
	Beige		FG614500BEIG	**19-046-707**	286.00
30 gal. (114L)	Red	24.2 × 19.7 × 34.2" (61.4 × 50 × 86.9cm)	614700 RED	**19-412-652**	373.50
	Light Platinum		FG614700PLATX	**19-412-653**	373.00
Stainless-Steel Containers					
30 gal. (87.1L)	Black	24.2 × 17.7 × 27.3" (61.4 × 50 × 86.9cm)	614787BLA	**19-412-651**	660.00

Dynalon Bio-Bin™ Waste Disposal Containers and Accessories

A new cost effective and convenient alternative to rigid plastic waste collection and disposal containers

- Space efficient, light weight fold-flat design
- Built-in lid and handles
- Waterproof construction
- Temporary and permanent seals
- Built-in super absorbent Bio-matt™ to soak up any excess liquid
- Autoclavable (use with #202065 Autoclave Sterility Tape)
- Supplied with 2 × 2" Biohazard Waste Labels
- Stackable post use (UN 3291 Approved)

12-009-801

Description	Mfr. No.	Cat. No.	Quantity	Each
Waste Container; 2.5L	797303-0002	**12-009-800**	50/cs.	155.50
Waste Container; 6.0L	797303-0006	**12-009-801**	40/cs.	204.50
Waste Container; 30L	797303-0030	**12-009-802**	10/cs.	152.30
Waste container stand; U Stand	797303-6100	**12-009-803**	1 ea.	32.70
Waste container stand; Z Stand	797303-6200	**12-009-804**	1 ea.	32.70

Before You Buy **Water Purification Systems**

A Water System is the Critical Component to Your Research

Underlying scientific applications is the universal need for high quality water and reagents. Water is used for everything — from washing glassware to preparing culture media. The quantity and quality of the water used in the lab has a profound effect on every phase of your research.

There are four basic contaminants in water:

- Inorganic ions (measured in µs/cm or megaohms)
- Organics (measured in ppb)
- Bacteria (measured in cfu/mL)
- Particles/colloids (measured by silt density index)

There are different types of purification systems that will purify tap water, and advantages to each of them:

- Deionization
- Distillation
- Reverse Osmosis
- Electrodeionization

There are also different polishing technologies:

- UV light
- Membrane filtration

Features To Look For

EMD Millipore has more than 40 years of experience in the development and service of advanced laboratory water purification systems. From design to installation to system qualification and user training, EMD Millipore can provide complete project management to ensure that exact specifications are met.

EMD Millipore's water purification systems are designed to provide laboratories with systems covering the different water types in an efficient and economical way with adapted monitoring and quality assurance.

Milli-Q® Integral System pure and ultrapure water at your fingertips

CONTAMINANT REMOVAL EFFICIENCY	INORGANICS	ORGANICS	BACTERIA	PARTICULATES
Distillation	◕	◗	◕	◔
Reverse Osmosis	◕	◕	◕	◕
Ultrapure Ion Exchange	●	◗	◔	
Electrodeionization	●	◗	◗	
Ultraviolet Light		◕	●	
Carbon		●		◗
Ultrafiltration		◗	◕	◗
Microporous Filtration			●	●

Water Purification

EMD Millipore

EMD Millipore™ Milli-Q™ Integral Systems

Produce pressurized Type II pure and Type I ultrapure water in a single unit — directly from tap water

Combine proven Elix™ and Milli-Q technologies to allow complete control over the quality and volume of water required in the lab. Separate points of delivery (PODs) offer convenience and are adaptable to match final polishing to specific research applications.

Single Unit Production

- No upstream pretreatment system is necessary
- Produces up to 360L/day at up to 2L/min. on demand

Total Water Quality Control

- Resistivity and TOC monitoring allows control over both ionic and organic contaminants that can impact your results
- TOC measuring allows you to verify that the contaminant removal process is operating within specifications
- Precise resistivity measuring ensures that ionic contamination of purified water remains at sub-ppb level

Customized Water Quality

- POD Paks, placed at the outlet of each dispenser, are designed to remove specific types of contaminants
- Water quality remains consistent, day after day, to your most stringent specifications

Designed for Flexibility

- Component design allows best use of space; PODs can be wall mounted
- Q-POD delivers Type I Water E-POD delivers pressurized Type II Water

Convenient Water Delivery

- Manual delivery from POD unit plunger — with control from drop-to-drop up to high flow
- Dispenser can be used handheld for glassware washing or similar tasks

ORDERING INFORMATION:
Dimensions, Production Unit: 19L × 13.1W × 19.7"H (48.4 × 33.2 × 50cm). Height of POD unit: 22.8" (57.9cm). Operating Weight, Production Unit: 52.9 to 61.7 lb. (24 to 28kg); POD Unit: 10.36 lb. (4.7kg). For 100/230V 50/60Hz. Accessory filters and cartridges are available online.

REQUIRES:
Potable tap water source (as per US-EPA, EP and WHO norms)

CERTIFICATIONS:
ISO 9001 v.2000 and ISO 14001

ZRXS POD 01, ZRXQ 003 US

Specifications				
Model	Integral 3	Integral 5	Integral 10	Integral 15
Capacity	≤70L/day	≤120L/day	≤240L/day	≤360L/day
Flowrate	At EPOD: Up to 2.0L/min.; at QPOD: 0.05 to 2.0L/min.			
Microorganisms	<1cfu/mL with Millipak™ filter with EMD Millipore Express membrane or BioPak filter as POD pack			
Pyrogens (Endotoxins)	<0.001EU/mL (pyrogen-free)			
Particulates	<1 fpr particulates; >0.22µm (with MilliPak filter with EMD Millipore Express membrane or BioPak filter as POD Pak)			
DNase	<4µL (with BioPak filter as POD pack)			
TOC	Pure Water: ≤30ppb; Ultrapure Water: ≤5ppb			
RNase Free	<0.01ng/mL			
Product Water Resistivity	Pure Water: >5MΩcm; Ultrapure Water: 18.2MΩcm at 25°C			

Type	Cat. No.	Each
Milli-Q Integral Systems		
Integral 3	**ZRXQ 003 US**	16,160.00
Integral 5	**ZRXQ 005 US**	18,280.00
Integral 10	**ZRXQ 010 US**	19,370.00
Integral 15	**ZRXQ 015 US**	21,610.00
Dispensers		
E-POD Dispenser	**ZRXS POD 01**	1585.00
Q-POD Dispenser	**ZMQS POD 01**	2150.00

EMD Millipore™ Milli-Q™ Advantage A10 Water Purification System

Delivers ultrapure water with flexibility for a wide variety of daily applications

System features two distinct components: compact production unit and Q-POD point-of-use delivery unit. Ideal for labs with limited space.

Production Unit

- Built-in UV lamp and TOC monitor
- Small footprint
- Fits on or under bench or can be wall-mounted
- Graphic display guides user through system operation, performance, troubleshooting and maintenance and can be password-protected
- RFID tag functions ensure that you are using the correct consumables

Q-POD (Quality-Point-of-Delivery) Unit

- Provides final polishing
- Multicolor graphic display allows easy interaction with system and provides water quantity/quality information
- Manual or precise-volume dispensing
- Maximum flowrate: 2L/min.
- Removable dispensing arm adjustable to lab glassware/plasticware
- Double monitoring allows control over both ionic and organic contaminants that can impact research results
- Up to three Q-POD units can be used with each Advantage system at different locations in the lab

ORDERING INFORMATION:
Accessories and consumables, including wall mounting brackets, flow regulator, purification packs, filters and replacement lamps, are sold separately. Technical support, training, maintenance and laboratory validation services are available; contact your Fisher Scientific Sales Representative for details. EMD Millipore Q-Pod (Cat. No. ZMQS P0D 02) may be purchased separately for extending system within lab location.

REQUIRES:
Pure water source (Elix™ system or equivalent, not included); purification packs and cartridges (sold separately)

COMPLIANCE:
USP 645 suitability requirements

CERTIFICATIONS:
ISO 9001 v.2000 and ISO 14001

Mili-Q Advantage A10 System

Specifications	
Resistivity	18.2MΩcm at 25°C
TOC	≤5ppb
Particulates	P1/mL
Bacteria	P1cfu/mL
Pyrogens (Endotoxins)	
DNases	P4pg/mL
RNases	<0.01ng/mL
Flowrate	Up to 2L/min.
Dimensions (Production Unit)	14.25D × 13W× 19.5"H (36 × 33.2 × 49.7cm)
Dimensions (Q-POD)	9 D× 22.75"H (23 × 57.9cm)
Length, Q-POD Arm	31.5" (80cm)
Length, Power Cable	9.5' (2.9m)
A10 Production Unit	
Electrical Requirements	100/230V 50/60Hz
Q-POD Point-of-Delivery Unit	
Electrical Requirements	100/230V 50/60Hz

Cat. No.	Each
Z00Q 0V0 US	10,478.61

GET YOUR NEW LAB OFF TO A PRODUCTIVE START

To help get your lab off to a productive start, Fisher Scientific has teamed up with many of our brand-name suppliers to provide special offers on an extensive range of products commonly purchased by new lab customers. Our New Lab Start-Up Program can help you stretch your budget dollars with exclusive money-saving offers. Visit **www.fishersci.com/newlab** to apply for the program.

EMD Millipore™ Milli-Q™ Reference Ultrapure Water Purification Systems

Convenient ultrapure water delivery

This system delivers ultrapure (Type 1) water customized to fit a broad range of research areas. System makes ultrapure water available in any laboratory, regardless of space limitations or the stringency of regulatory norms.

- Designed to fit the height and shape of all laboratory glassware
- Easily prepares solutions with the low flow function to precisely adjust the meniscus in volumetric flasks
- Model Z00QSVC01 includes TOC indicator

Z00Q SV0 US

INCLUDES: U.S. shipping kit (power cord, documentation)

Specifications	
Feedwater quality	Elix, RO, DI or Distilled
Product Water Type	Type I
Manual dispense flowrate	Adjustable between 50 and 2000mL/min.
Resistivity	Ultrapure Water 18.2MΩ.cm
Conductivity	< 100µS/cm
TOC	< 5ppb (µg/L)
Microorganisms	< 1cfu/mL
RNases	< 0.01ng/mL (RNase-free)
DNases	< 4pg/mL (DNase-free)
Feedwater connection	0.5" Gaz F
System weight (with water)	19.5kg
System weight (packaged)	19.0kg
Electrical Reqts.	110-230V

Cat. No.	Each
Z00Q SV0 US	9850.00
Z00Q SVC 01	10,240.00

ACCESSORIES

EMD Millipore™ Cartridges for Milli-Q™ Systems

QGARD00B1

Description	Cat. No.	Each
For use with Academic, Gradient, Biocel and Synthesis™ Systems		
Q-Gard™ 1 Purification Pack	**QGAR D00 R1**	321.35
Q-Gard 2 Purification Pack	**QGAR D00 D2**	321.35
Quantum™ IX Cartridge	**QTUM 000 IX**	387.47
Quantum EX Cartridge	**QTUM 000 EX**	387.47
Quantum VX Cartridge	**QTUM 000 VX**	435.36
Quantum IX (Ionex)	**QTUM MPE IX**	563.93
Quantum EX (Organex)	**QTUM MPE EX**	563.93
For use with Element System		
Q-Gard Boron Purification Pack	**QGAR D00 B1**	461.04
Quantum ICP Cartridge	**QTUM 00I CP**	590.68
For use with Biocel and Synthesis Systems		
Pyrogard™ 5000 Hollow-Fiber UF Cartridge	**CDUF HF0 5K**	1978.89

EMD Millipore™ Synergy™ Ultrapure Water Purification System

Type 1 reagent-grade water with a flowrate above 1L/min

SYNS VR0 US

Synergy systems are designed for laboratories that already have access to purified water and need a point-of-use system to supply high quality ultrapure water.

- Produces Type 1 water (18.2 MOhm. cm at 25°C ultrapure water) on demand from pretreated water (reverse osmosis or demineralized water)
- Maintenance reduced to a single cartridge change once or twice a year, depending on the volume produced and the quality of the pure water feed
- Designed for users needing between 2 and 100L of ultrapure water per day
- Quality suitable for HPLC and other spectrophotometric/ spectroscopic analytical techniques for biological, biochemical and cell culture applications
- Dispensing adapted to different size laboratory glassware
- Time-saving fixed-volume dispense
- Compact design, along with the versatile remote dispenser, ensure easy installation anywhere in your laboratory
- Dimensions: 15D × 21.3W × 11.4 " H (38 × 54 × 29cm)
- Electrical feed voltage: 100-250V ±10%
- Electrical feed frequency: 50-60Hz ±10%
- Synergy UV System: For applications requiring very low organic contaminant levels,it incorporates a dual wavelength UV lamp to produce water with P5ppb TOC (when feed water TOC is below 50ppb), making it suitable for HPLC, GC, ILC and TOC analyses

Description	Cat. No.	Each
Pure to Ultrapure purification system	**SYNS 0HF US**	4140.00
Pure to Ultrapure purification system; With remote dispenser, display unit	**SYNS 0R0 US**	4890.00
UV Pure to Pure and Ultrapure purification system	**SYNS VHF US**	5020.00
UV Pure to Pure and Ultrapure purification system; With remote dispenser, display unit	**SYNS VR0 US**	6030.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Synergy™ Water Purification System

Ultrapure water at the point of use — with easy and convenient dispense!

SYNS 000 US

Description	Cat. No.	Each
Synergy Water Purification System	**SYNS 000 US**	4110.00
Synergy UV Water Purification System	**SYNS V00 US**	5050.00

EMD Millipore™ SynergyPak™ 3 Cartridge for Synergy™ Ultrapure Water Systems

Produces ultrapure water from Deionized (DI) water

- Baed on "Ion-exchange", "Activated carbon", "Depth filtration" technology
- Integrate all main purification technologies
- "Plug-and-use" design for easy and rapid replacement

SYPK 0SI X3

Description	Technologies	Cat. No.	Each
SynergyPak 3 cartridge	Ion exchange, Activated carbon, depth filtration	**SYPK 0SI X**	433.50

EMD Millipore™ SynergyPak™ 2 Cartridge for Synergy™ Ultrapure Water Systems

Produces ultrapure water from pure water produced by Milli-DI™ or clean Deionized (DI) water

- Baed on "Ion-exchange", "Activated carbon", "Depth filtration" technology
- Pore size: 0.22µm
- Integrate all main purification technologies
- "Plug-and-use" design for easy and rapid replacement

SYPK0SIX2

Description	Size	Technologies	Cat. No.	Each
SynergyPak 2 cartridge	0.22µm	Ion exchange, Activated carbon, depth filtration	**SYPK 0SI X2**	418.83

EMD Millipore™ Simplicity™ Water Purification System

Economical, efficient, space saving alternative to reagent grade and bottled water

- Ideal for labs that require 5 to 10L/day ultrapure water
- System draws water from a removable, refillable built in reservoir
- Simplicity UV incorporates a dual wavelength UV lamp to reduce TOC and bacteria
- System Flow Rate: 0.75L/min.

Simplicity Water Purification System

Description	Cat. No.	Each
Simplicity Water Purification System	**SIMS 000 US**	3800.00
Simplicity Water Purification System with UV 185nm	**SIMS V00 US**	3560.00

EMD Millipore™ Simplicity Ultrapure Water Systems

Type 1 fresh feedwater on demand wherever you need it

The Simplicity portable ultrapure water purification system can be located anywhere in your laboratory. It requires no special installation, no feedwater connection and produces ultrapure water on demand from pretreated water (RiOs reverse osmosis water and distilled or deionized water). The system is compact and "nomadic" so that you can easily move it to another spot in your lab if you need to or even lend it to a colleague down the hall. Its removable 2L integrated reservoir lets you do away with cumbersome carboys and their uncertain water quality.

The intuitive color graphic display means that you can instantly see all system parameters, whether you want to check water quality, reservoir level or when to replace the pack. For applications requiring very low organic contaminant levels, the system also incorporates a dual wavelength 185/254nm UV lamp to produce water with <5 ppb TOC (when feedwater TOC is below 50 ppb), making it suitable for HPLC, GC, ILC and TOC analyses. With the Application Pak cartridge of your choice as a final filter, Simplicity systems produce ultrapure water free of pyrogens, nucleases, proteases, VOCs, trace organics or endocrine disruptors to meet your specific needs.

- Produce Type 1 ultrapure water (18.2MΩ•cm resistivity at 25°C ultrapure water) on demand from pretreated water (reverse osmosis, distilled or deionized water)
- Compact and portable "nomadic" system requires no plumbing; can easily be installed where you need it on your lab bench and just as easily moved to another location within your lab
- The system draws water from a removable, refillable, built-in reservoir, eliminating the need for carboys
- Flow rate >0.5L/min.
- Maintenance reduced to a single cartridge change once or twice a year, based on the resistivity value displayed for the ultrapure water produced
- System is designed for users needing between 1 and 5 liters of ultrapure water per day with instant flow rate of 0.5L/min.
- System comes with or without a UV lamp (depending on the impact of TOC on applications)
- Alarm function in the event of a sudden drop in the quality of the product water guarantees your water quality at all times
- Dispensing adapted to different size laboratory glassware

APPLICATIONS:

- Production of mobile phase for chromatographic separations
- Preparation of blanks and standard solutions for spectrophotometry, spectroscopy or other analytical techniques
- Preparation of buffers for biochemical experiments

COMPLIANCE:
Systems are UL and cUL listed under file E216983 in the "Laboratory Use Electrical Equipment Category" and meet the requirements of UL 61010 standards. Systems conform to European Union CE directives 89/336/CEE (electromagnetic compatibility) and 73/23/CEE (electrical equipment within certain voltage limits). All systems are manufactured in ISO 9001 and ISO 14001 certified environments.

Specifications	
Resistivity	18.2MΩ•cm at 25°C
Instant Flow Rate (with Application Pack Final Filter)	>0.5L/min
TOC (w/o 185/254nm UV lamp)	<15ppb
TOC (with 185/254nm UV lamp)	<5ppb
Particulates (Size >0.22µm)	<1 particulate/mL
Bacteria	<0.1cfu/mL
Endotoxin (Pyrogens)	<0.001EU/mL
RNases	<0.01ng/mL
DNases	<4pg/µL
Dimensions (H × W × D)	51 × 29 × 36cm (20.1 × 11.4 × 14.2")
Net Weight (Simplicity System w/o 185/254nm UV Lamp)	4.9kg (10.8lb)
Net Weight (Simplicity System with 185/254nm UV Lamp)	5.4kg (11.9lb)
Operating Weight (Simplicity System w/o 185/254nm UV Lamp)	8.4kg (18.4lb)
Operating Weight (Simplicity System with 185/254nm UV Lamp)	9kg (19.8lb)
Built-in Removable Reservoir Volume	2L
Electrical Feed Voltage	100 to 250V ±10%
Electrical Feed Frequency	50 to 60Hz ±10%

Description	Cat. No.	Each
Without UV lamp, 100V to 240V, 50/60Hz	**SIMS 000 01**	3190.00

ACCESSORIES

EMD Millipore™ SimpliPak 1

Produces ultrapure water from pure water produced by Elix™, RiOs™ or distilled water

- Based on "Ion-exchange" and "activated carbon" technology
- Pore Size: 0.5µm
- Snap-in-and-out design for easy and rapid replacement

SIPK 0SI A1

Description	Size	Technologies	Cat. No.	Each
SimpliPak 1 cartridge	0.05µm	Ion-exchange and activated carbon	**SIPK 0SI A1**	292.32

EMD Millipore™ SimpliPak 2

Produces ultrapure water from a variety of pre-treated water types

- Based on "Ion-exchange" technology
- Snap-in-and-out design for easy and rapid replacement

SIPK 0SI X2

Description	Technology	Cat. No.	Each
SimpliPak 2 cartridge	Ion-exchange	**SIPK 0SI X2**	291.63

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

EMD Millipore™ Direct-Q™ Tap to Pure and Ultrapure Water Purification System

Provide Type I and Type III water from potable tap water

Ideal for laboratories that do not have easy access to pretreated water and need between 1 and 10 L of ultrapure water per day.

Key Features

- Water quality parameters (resistivity or conductivity, temperature) are clearly indicated on a bright color display
- Maintenance is limited to infrequent and easy replacement of required SmartPak DQ3 cartridge (SPR00SIA1US, available separately)
- Volumetric dispensing function regulates water delivery for volumes up to 2.62 gal. (9.75L) in 0.12 gal. (0.25L) increments Systems connect to potable tap water feed with 1/2 NPTF connector and inlet strainer and 8mm O.D. tubing (supplied)

Direct-Q 3

- Flow rate: 36L/hr.
- Produces up to >0.1 gal./min. (>0.5L/min.) Type 1 water on demand at 25°C and 30ppb Total Organic Carbon (TOC) directly from potable tap water
- Product water is suitable for preparing buffers for liquid chromatography separations and biochemical experiments, also for use with such analytical techniques as spectrophotometry and spectroscopy

Direct-Q 3UV

- Reduces bacteria and TOC to 10ppb via a dual wavelength UV lamp
- Product water is suitable for applications requiring very low organic contaminants levels such as HPLC, GC, ILC and TOC analyses

Direct-Q 5 and 8

ZRQS 0P3 00

- Flow rate: 5L/hr. (Direct Q 5) or 8L/hr. (Direct Q 8)
- Produce Type 1 ultrapure water (18.2 MΩcm resistivity at 25°C and >10 ppb Total Organic Carbon) on demand directly from potable tap water
- Available with a built-in 185 and 254nm UV lamp to produce low TOC water required by organic-sensitive applications
- Produce Type 3 (Reverse Osmosis) water for basic lab applications at a flow rate of 3, 5 or 8L/hr at 15°C
- Type 3 water is easily available from external 30/60L reservoirs
- Maintenance reduced to a single cartridge change once or twice a year
- Alarm warning in case of a sudden drop in the quality of the product water
- Dispensing adapted to different size laboratory glassware
- Time-saving fixed volume dispense

COMPLIANCE: cUL listed

CERTIFICATIONS: UL listed

EMD Millipore Direct-Q 3 Tap System

Description	Cat. No.	Price
Direct-Q 3 water purification system	**ZRQS 0P0 US**	4710.00
Ultrapure; Direct-Q 3 UV	**ZRQS VP0 US**	5490.00
Pure; Direct-Q 3; Reverse osmosis tap	**ZRQS 0P3 00**	4220.00
Ultrapure; Direct-Q 3; Reverse osmosis tap	**ZRQS 0P3 US**	4150.00
Pure; Direct-Q 3; Reverse osmosis tap; w/Remote dispenser/display unit	**ZRQS 0R3 00**	4900.00
Ultrapure; Direct-Q 3; Reverse osmosis tap; w/ Remote dispenser/display unit	**ZRQS 0R3 US**	4900.00
Pure; Direct-Q 3UV; Reverse osmosis tap; w/ Remote dispenser/display unit	**ZRQS VP3 00**	4830.00
Ultrapure; Direct-Q 3UV; Reverse osmosis tap	**ZRQS VP3 US**	4830.00
Pure; Direct-Q 3 UV; Reverse osmosis tap; w/ Remote dispenser/display unit	**ZRQS VR3 00**	5470.00
Ultrapure; Direct-Q 3 UV; Reverse osmosis tap; w/Remote dispenser/display unit	**ZRQS VR3 US**	5470.00

†When used with Millipak™ Express™ 20 final filter.
‡When used with BioPak Disposable Ultrafilter.

EMD Millipore Direct-Q 5 Tap System

Description	Cat. No.	Each
Pure; Direct-Q 5; Reverse osmosis tap	**ZRQS VP5 00**	5030.00
Ultrapure; Direct-Q 5; Reverse osmosis tap	**ZRQS VP5 US**	5030.00
Pure; Direct-Q 5UV; Reverse osmosis tap; w/ Remote dispenser/display unit	**ZRQS VR5 00**	5810.00
Ultrapure; Direct-Q 5 UV; Reverse osmosis tap; w/Remote dispenser/display unit	**ZRQS VR5 US**	5790.00

EMD Millipore Direct-Q 8 Tap System

Description	Cat. No.	Each
Pure; Direct-Q 8; Reverse osmosis tap	**ZRQS VP8 00**	5120.00
Ultrapure; Direct-Q 8; Reverse osmosis tap	**ZRQS VP8 US**	5120.00
Ultrapure; Direct-Q 8 UV; Reverse osmosis tap; w/Remote dispenser/display unit	**ZRQS VR8 US**	5910.00

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EMD Millipore™ Elix™ Essential 3, 5, 10, 15 Water Purification Systems

Consistently pure, reliable water quality for optimal results

Ideal for laboratories needing an easy-to-use economical solution that provides a constant and reliable source of Type 2 pure water.

- Patented Elix™ module, which uses electricity (instead of harsh chemicals and water) to continuously regenerate the resins and remove ions from tap water
- Intuitive system controls, with system alert and alarm icons shown on a color-coded backlit LCD display
- High-precision monitoring equipment to ensure precise and reliable measurement of key water quality parameters
- RFID technology for traceability of Progard™ pretreatment packs
- New ergonomic pack locking system to make Progard™ pack changes a snap
- Small system footprint, allowing multiple installation possibilities
- Has resistivity values greater than 5 Mohm.cm at 25°C and less than 30ppb TOC, exceeding the quality of double distilled water

Description	Flowrate	Cat. No.	Each
Elix Essential 3	3L/hr.	**ZLXE 003 0US**	4660.00
Elix Essential 5	5L/hr.	**ZLXE 005 0US**	5850.00
Elix Essential 10	10L/hr.	**ZLXE 010 0US**	6880.00
Elix Essential 15	15L/hr.	**ZLXE 015 0US**	7310.00
Elix Essential 3 UV with UV lamp	3L/hr.	**ZLXE V03 0US**	5420.00
Elix Essential 5 UV with UV lamp	5L/hr.	**ZLXE V05 0US**	6610.00
Elix Essential 10 UV with UV lamp	10L/hr.	**ZLXE V10 0US**	7640.00
Elix Essential 15 UV with UV lamp	15L/hr.	**ZLXE V15 0US**	8070.00

EMD Millipore™ Elix™ Advantage Water Purification Systems

Up to 350L/day of pure water

Produce pure water that meets the highest standards, together with an ergonomic state-of-the art water dispensing system. Peace of mind and ease of use — all in one!

- Elix electrodeionization technology
- Combining Millipore Elix electrodeionization technology with the most advanced purification technologies (Progard™ pretreatment, advanced reverse osmosis, 254nm UV lamp), the Elix Advantage system uses potable tap water as feed. The pure water produced by the system meets the most rigorous standards of regulatory bodies around the globe. Ergonomic E-POD™ units for flexible water delivery
- Up to three E-POD units per system can be installed at convenient locations in your lab, letting you benefit from efficient and reliable pressurized pure water delivery, with manual or volumetric dispensing.
- Save time and money; benefit from lower running costs and reduced maintenance
- Produce up to 350L per day
- No polishing pack needed for pure water production
- No need for an anti-scaling cartridge upstream of the Elix module
- No extra softeners required

Peace of mind, ease of use

- Consistent water quality, with resistivity measurements displayed on the main unit's graphic display
- Continuous electrical recharging of exchange resins elilminates variations due to exhaustion of resins common to chemically regenerated units
- High resistance to scaling ensures high Elix module reliability
- All-in-one pretreatment pack

Specifications	
Flowrate from Delivery Unit	Up to 2.0L/min.
Conductivity† (at 25°C)	0.067-0.1µS/cm
Resistivity (at 25°C)	5 to 15 megohm•cm
TOC (Total Organic Carbon)	<30µg/L
Silica Rejection	>99.9%
Nominal Reject Flowrate	31L/hr.
System Water Recovery	24%
D × W × H, Cabinet	48 × 35 × 50cm
D × H, Delivery Unit	48 × 35 × 50cm
Electrical Requirements	100-230V 50/60Hz

†Where CO2 content is ≤30ppm in tap water feed.

- Unit performs self-maintenance of reverse osmosis membrane
- Provides pure water for compliance with industry standards

Planet-friendly, clean technology

- Uses electricity rather than harsh chemicals to regenerate resins and remove ions
- Minimal use of disposable purification cartridges limits waste
- Low electricity consumption
- High water recovery minimizes tap water waste

Information at your fingertips

- Data on system operation and performance appear on the main unit's display
- Daily output data appear on the E-POD screen: water quality, system status, tank level, maintenance messages, water dispensing information

Adapability to meet your needs

- Compact unit can be installed on the wall or under a sink, saving valuable bench space
- Modular design adapts to changing demands in your lab: up to three E-POD units can be added
- Choice of two dispensing flowrates and manual or automatic dispensing modes

ORDERING INFORMATION: Units ZRX0003US, ZRX0005US, ZRX0010US and ZRX0015US are pre-equipped for the E-POD unit.

COMPLIANCE: Water produced meets or exceeds requirements as described by ISO 3696 (Grade 2 water); ASTM™ D1193 (Type II resistivity and TOC Table I specifications); and by the United States, European and Japanese Pharmacopeias for Purified Water.

Model	Max. Water Production	Cat. No.	Each
Elix Advantage 3	3L/hr.	**ZRXV 003 US**	7080.00
Elix Advantage 5	5L/hr.	**ZRXV 005 US**	8450.00
Elix Advantage 10	10L/hr.	**ZRXV 010 US**	9620.00
Elix Advantage 15	15L/hr.	**ZRXV 015 US**	10,040.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ RiOs™ 5/8/16 Reverse Osmosis Systems

Ideal for general laboratory use

Produce up to 16L/hr. of Type III water from tap water by reverse osmosis (RO).

RiOs-8 (ZROS 600 8Y)

Key Features

- Two purification steps in one compact unit
- Plug-in Progard™ pretreatment pack (available separately) provides primary purification
- High-recovery reverse osmosis loop with RO membrane cartridge provides final purification
  Pump-assisted flow guarantees consistent flowrate at any temperature
- Automatic membrane sanitization simplifies maintenance
- Reverse osmosis loop generates high water recovery rate and reduces costs by purifying waste stream and decreasing the frequency of filter changeouts
- >95% of most contaminants and ions are removed

System Operation Features

- Easy to run — all operating parameters are monitored
- Mount on wall, on benchtop or under bench
- Can be upgraded to increase flowrate or converted to Elix™ Water Purification Systems (contact your Fisher Scientific Customer Service Representative for details)
- RS-232-C printer interface
- Optional backlit Remote Display (ZMQS RMD S1) permits water quality monitoring when system is underbench-mounted

REQUIRES:
RO Membrane Cartridges and Progard™ 2 Pretreatment Pack (sold separately)

COMPLIANCE:
Manufactured in an ISO 9002 facility

Model	RiOs-8	RiOs-16
Nominal Permeate Flowrate (7°C < T < 30°C)	$2^1/_8$ gal./hr. (8L/hr.) ±15%	$4^1/_4$ gal./hr. (16L/hr.) ±15%
Nominal Reject Flowrate	$5^1/_4$ gal./hr. (20L/hr.)	$6^5/_8$ gal./hr. (25L/hr.)
System Water Recovery	28%	38%
Contaminant Rejection		
Typical Ionic	96–99%	96–99%
Minimum Ionic	95%	95%
Organic (<100 dalton)	>99%	>99%
Particulate	99%	99%
Microbiological	>99%	>99%
Dimensions (L × W × H)	$12^3/_8 \times 10 \times 17^7/_8$" (32 × 26 × 46cm)	$12^3/_8 \times 10 \times 17^7/_8$" (32 × 26 × 46cm)
Weight (Operating)	31 lb. (14kg)	33.2 lb. (15kg)
Electrical Requirements	120V 60Hz	120V 60Hz
Cat. No.	**ZROS 600 8Y**	**ZROS 601 6Y**
Each	5389.33	6132.76

EMD Millipore™ RiOs™ 3, 5, 8 Pure Water Purification Systems

Produce flowrates adapted to your daily usage — 3, 5 or 8L/hr.

Unique, all-in-one purification cartridges include pretreatment and high-performance reverse osmosis (RO) membranes that generate reliable, affordable laboratory-grade water for Type III applications or as pretreatment to ultrapure systems from normal tapwater

Small footprint, easy-to-install system can be placed wherever needed, on the benchtop or wall

ZROS 0P3 US

- Produce reliable and affordable Type 3 water from tap
- User-friendly, backlit display provides easily accessible information on system status (conductivity, temperature values, water level in reservoir and alarms) at a glance; concise Quick Reference Guide is handy guide for daily operation
- Convenient reservoir storage: RiOs 3 offers an integrated 6L reservoir, RiOs 5 and RiOs 8 can connect to external 30L or 60L reservoirs
- Single SmartPak™ RO cartridge with integrated RO membrane enables easy and rapid replacement
- Efficient removal of >96% of ionic contaminants and ≥99% of other contaminants (organics, bacteria, particles)
- Simple, low-level self-maintenance — just change a single cartridge once or twice a year

ORDERING INFORMATION:
19.7 × 11.4 × 13" (50 × 29 × 33 cm). 100-250V 50-60Hz. Tap pressure: 0.5 to 6 bar. Feedwater connection: 0.5" Gaz M.

Flowrate	Cat. No.	Each
3L/hr.	**ZROS 0P3 US**	2880.00
5L/hr.	**ZROS 0P5 US**	3310.00
8L/hr.	**ZROS 0P8 US**	3970.00

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EMD Millipore™ RiOs-DI™ Reverse Osmosis Deionization Water Purification System

Produce up to 15L daily of high quality analytical grade water (Type 2 water) from tap

ZRDS VP3 US

RiOs-DI systems provide users with a compact solution that efficiently combines reverse osmosis technology with deionization resins to produce high quality pure water with high resistivity and low TOC.

- Combining several purification technologies including reverse osmosis and deionization, these remove all types of water contaminants (typically >99%)
- The consumable is a unique all-in-one pack that includes the pretreatment, reverse osmosis membrane and ion-exchange resin
- Maintenance is reduced to the quick change of a single cartridge
- Backlit color display shows resistivity and temperature values, water level in reservoir and alarms if necessary
- Integrated, compact 6-liter reservoir
- Resistivity: >10 MOhm.cm at 25°C

Description	Cat. No.	Each
Pure water purification system	ZRDS0P3US	4220.00
UV pure water purification; w/254nm lamp	ZRDSVP3US	4690.00

EMD Millipore™ RiOs™-DI 3 Water Purification Systems

Ideal for low-volume, routine laboratory applications

Produce 10L/day of high-quality analytical grade (Type II) water from tap water. Combine reverse osmosis technology with deionization resins to produce pure water of high resistivity and low TOC (>10 megohm•cm and <50ppb). Product water is stored in an internal reservoir.

Key Features

- Water is dispensed from fixed tap delivering about 1L/min. when using wall bracket (WMB SMT 001), sold separately
- Integral reservoir holds 1.5 gal. (5.7L); larger reservoirs available separately
- Automatic stand-by mode stops production when the built-in tank is full; automatically begins refill when water has been withdrawn
- System alerts user when resistivity drops below acceptable levels

SmartPak™ RODI "Plug-and-use" Cartridge Features

- Holds a reverse osmosis membrane, activated carbon and an ion exchange resin to remove particles, ions, organics and bacteria
- Removes greater than 99% of the organics in the water, resulting in TOC levels of less than 100ppb
- Pump-assisted flow through the cartridge ensures a steady production rate and reliable contaminant removal, in spite of low pressure on the supply side or drop in water temperature
- Cartridge should be replaced once per year or every 400L of water produced

System Operation Features

- Backlit color display shows resistivity, temperature and water level in tank
- A flashing icon on the display alerts operator to change cartridge and/or UV lamp (RiOs-DI 3 UV model only)
- Display dimensions: 13/4L × 13/4"W (4.3 × 4.6cm)
- System can be used on benchtop or mounted on wall

RiOs-DI 3 UV System Features

- Includes UV lamp to produce bacteria-reduced water

Systems can also be used to produce direct feed water for Milli-Q™ ultrapure water systems

REQUIRES:
SmartPak RODI Cartridge (SPR0 0SI A2)

COMPLIANCE:
Manufactured in an ISO 9001 facility

CERTIFICATIONS:
UL listed

ZRDS VP0 US

Model	RiOs-DI 3	RiOs-DI 3 UV
Flowrates		
Nominal Permeate	3/4 gal./hr. (3L/hr.) at 15°C	3/4 gal./hr. (3L/hr.) at 15°C
Nominal Reject Water	27L/hr.	27L/hr.
Resistivity	3 megohm•cm	3 megohm•cm
Conductivity (Typical Ionic Quality)	<0.33µS/cm	<0.33µS/cm
Total Organic Carbon (TOC)	<100ppb	<100ppb
System Water Recovery	15%	15%
Microbiological	NA	<100CFU/mL
Particulate	99% removed	99% removed
Silica	99% removed	99% removed
Dimensions (L × W × H)	14 1/8 × 11 3/8 × 20 1/8" (36 × 29 × 51cm)	14 1/8 × 11 3/8 × 20 1/8" (36 × 29 × 51cm)
Weight (Operating)	15 3/8 lb. (7kg)	16 1/2 lb. (7.5kg)
Electrical Requirements	120V 60Hz	120V 60Hz
Cat. No.	ZRDS 0P0 US	ZRDS VP0 US
Each	4480.00	4890.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

EMD Millipore™ Milli-DI™ Water Purification System

Battery-powered system produces 3 to 5L/day of Type II purified water directly from tap water

Supplies purified water at a flowrate of 0.125 gal./min. (0.5L/min.) attaining >1 megohm•cm resistivity at 25°C (77°F).

S66347

Key Features

- Two-stage purification sequence
- Activated carbon first removes chlorine and colloids
- Ion exchange resins remove typical inorganic ions Optional Millipak™-40 Final Filter connects directly to water supply or faucet to remove bacteria particles >22µm at point of use (requires Millipak-40 thread adapter, MDI0 2AD AP)

System Operation Features

- LED indicates when it is time to change cartridges
- Temperature-compensated resistivity cell activates a red/green LED to indicate water quality meets requirements Resistivity meter operates on one 9V battery
- Minimum feedwater pressure: 14psi
- Maximum feedwater pressure: 65psi

REQUIRES:
DI-PAK™ Deionization Cartridge (CPDI000L1) sold separately.

Model	Milli-DI
Nominal Product Flowrate	0.12 gal./min. (0.5L/min.)
Resistivity	>1 megohm•cm @25°C
Total Organic Carbon (TOC)	P500ppb
Microbiological Rejection	>99% rejected
Weight (Operating)	12 lb. (5.6kg)
Dimensions (L × W × H)	6.75 × 10.62 × 16.87" (17 × 27 × 43cm)
Cat. No.	**ZFDI 000 01**
Each	839.33

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EMD Millipore™ Super-Q™ Plus High-Volume Water Purification Systems

Produce up to 12L/min. of Type I ultrapure water

High-flow water systems provide final polish to water which has been pretreated by reverse osmosis, deionization or distillation. Eliminates need for water storage systems. Consistenlty produce ultrapure quality water that exceeds Type I ASTM™/CAP/CLSi specifications.

Super-Q Plus

- Water in bowls is automatically recirculated hourly to maintain water quality between uses
- Gauge indicates pressure of incoming feedwater Display shows resistivity measurement Modular design allows customization for specific applications Also available with 1/3hp pump motor to move gravity-fed feedwater at a controlled flowrate and equalize flowrate in pressurized loops

ORDERING INFORMATION:
Systems shown here are 4-bowl systems; 3-bowl system without pump (ZFSQ 115 03) is available through your Fisher Scientific Customer Service Representative.

REQUIRES:

- Required filter cartridges (sold separately)
- Ion-Ex™ cartridge removes inorganics (CPMB 022 02)
- Organex-Q™ cartridge removes trace organic contaminants (CPEX 02201)

For applications requiring particulate prefiltration and/or ultralow bacteria levels, contact your Fisher Scientific Customer Service Representative

Model	Super-Q Plus (4-bowl)
Flowrate	$2^5/_8$ to 3 gal./min. (10 to 12L/min.)
Resistivity @ 25°C	18.2 megohm•cm at 25°C
Total Organic Carbon (TOC)†	<20ppb
Heavy Metals	<0.01ppm
Silicates	<0.01ppb
Total Dissolved Solids	<0.03ppm
Microorganisms‡	<10CFU/mL
Pump	No
Dimensions	$8^3/_4$L × $45^1/_4$W × $31^1/_2$"H (22 × 94.5 × 80cm)
Weight (Operating)	140 lb. (63.5kg)
Electrical Requirements	120V 60Hz
Cat. No.	**ZFSQ 115 04**
Each	10,800.00

EMD Millipore™ Pure Water Storage Reservoirs

Store purified water without compromising quality

Key Features

- Polyethylene construction minimizes extractables that can contaminate water
- Cylindrical shape minimizes area in contact with water
- Smooth inner surface prevents biofilm formation
- Conical bottom allows complete drainage for effective cleaning and sanitization
- Hermetically sealed lid on large reservoir opening prevents air from leaking into reservoir and facilitates manual sanitization

TANK PE series shown with Water Distribution Pump (far left) and Water Sensor (left), Vent Filter (top) and A.S.M. Module (top)

Filling and Dispensing Features

- Sensor-rod float triggers automatic reservoir refill
- Water is fed into bottom of reservoir to prevent absorption of CO_2
- Two bottom valves allow direct connection to water polishing system and glassware washer
- Water dispenses through valve on front of reservoir

Optional Features

- Vent filter (available separately) guards against airborne impurities
- 30, 60 and 100L reservoirs can be wall-mounted (require TANK FIX 01 wall mounting bracket)
- Automatic Sanitization Module (A.S.M.) available separately to reduce bacteria levels
- Optional distribution pump continuously delivers water under pressure
- Water detector sensor (available separately) detects water on most surfaces such as floors and lab bench

Capacity	Dimensions	Weight (Full)	Cat. No.	Each
$7^7/_8$ gal. (30L)	15 dia. × $23^5/_8$"H (38 × 60cm)	66 lb. (30kg)	**TANK PE0 30**	1162.00
$15^7/_8$ gal. (60L)	15 dia. × $33^1/_8$"H (38 × 84cm)	130 lb. (59kg)	**TANK PE0 60**	1511.00
$26^3/_8$ gal. (100L)	15 dia. × $49^3/_8$"H (38 × 125.5cm)	217 lb. (98.5kg)	**TANK PE1 00**	1705.00

EMD Millipore™ Pure Water Storage Reservoir Automatic Sanitization Modules (A.S.M.)

Fit Millipore Pure Water Reservoirs with capacities from 30 to 100L

TANK S60 UV

- Utilize low-pressure mercury-vapor lamp that produces ultraviolet (UV) light at 254nm
- Turn on twice a day to prevent bacterial growth and biofilm formation in purified water storage containers
- Eliminate need for chemical sanitization, conserving water and reducing risks associated with chemical residues
- Available with or without water detector

ORDERING INFORMATION:

Dimensions: 15L × $10^1/_4$W × $14^7/_8$"H (38 × 26 × 38cm).
Electrical requirements: 120V 60Hz.7000.

Description	Cat. No.	Each
Automatic Sanitization Module	**TANK S60 UV**	2170.00

ACCESSORIES

EMD Millipore™ DI Pak™ Cartridge

Produces deionized water directly from tap water

- "Ion-exchange" and "depth filtration" technology
- Produces 3 to 5L of pure water per day
- Feed water nature: Tap water
- Can be easily snapped in and out in seconds without risk of leakage

Size	Resin	Cat. No.	Each
Medium	2.3L of ion exchange resin	**CPDI 0NJ M1**	243.56
Large	3.2L of ion exchange resin	**CPDI 000 L1**	266.95

ACCESSORIES

EMD Millipore™ Ultrapure Cartridge Kits and Pretreatment and Purification Replacement Cartridges

Description	Includes	Cat. No.	Each
Milli-Q Ion-free Kit	1 Milligard™ prefiltration cartridge, 1 Super-C™ organic removal cartridge, 2 Ion-Ex™ deionization cartridges, 1 Millipak™ filter unit	**CFIF-012-05**	552.52
Milli-Q Organic-free Kit for RO Water Feed	1 Super-C organic removal cartridge, 2 Ion-Ex deionization cartridges, 1 Organex-Q™ trace organic removal cartridge, 1 Millipak filter unit	**CFOF-012-05**	645.29

CFOF-012-05

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Prices subject to change.

ACCESSORIES

EMD Millipore™ Individual Cartridges for Milli-Q™ and Milli-RO™ Bowl-Style Systems

Description	Characteristics	Cat. No.	Pack of
Rogard™ II Prefilter, 12" (30cm)	RO membrane. Mesh filter removes particles >5µm. Recommended for efficient pretreatment of water with high levels of Cl_2 or particulates. Use in combination with cartridge CDFC 012 04.	**CDPRM 120 6**	6/415.91
Super-C™ Carbon Cartridge	12" (30cm) cartridge removes organics from water pretreated by reverse osmosis, deionization or distillation. Use in combination with prefilter CDPR M12 06.	**CDFC 012 04**	4/496.66
Ion-Ex Cartridge	12" (30cm) cartridge removes ionized impurities from water pretreated by reverse osmosis, deionization or distillation. Constructed of pure polypropylene with thermally bonded endcaps to reduce the risk of extractables contamination.	**CPMB 012 02**	2/301.11

CDRC 012 S0

EMD Millipore™ Purification Packs and Kits for Milli-Q™ Compact Systems

Combination of purification media selected to remove typical contaminants

- Replacement cartridges snap in and out

Description	For Use With	Characteristics	Cat. No.	Each
Reverse Osmosis or Distilled				
QPAK™ 1 Purification Pack	Compact Milli-Q Plus; Milli-Q UF Plus; Milli-Q PF Plus; Milli-Q UV Plus; Milli-Q RG and Alpha-Q™ Systems equipped with integral UF cartridge	Contains activated carbon to remove dissolved organics; nuclear-grade ion-exchange resins to remove trace inorganic ions to 18 megohm•cm resistivity; and Organex-Q™ organic scavenger mixture to remove trace organics to 10ppb.	**CPMQ 004 R1**	667.35
Deionized				
QPAK 2 Purification Pack	Compact Milli-Q™ Plus; Milli-Q UF Plus; Milli-Q PF Plus; Milli-Q UV Plus; and Milli-Q RG Systems	Contains an initial 0.5µm prefilter; activated carbon to remove dissolved organics; nuclear-grade ion-exchange resins to remove trace inorganic ions to 18 megohm•cm resistivity; and Organex-Q organic scavenger mixture to remove trace organics to 10ppb.	**CPMQ 004 D2**	697.06

EMD Millipore™ RiOs™ Essential 5, 8, 16, 24 Water Purification Systems

Reliable, constant production of high-quality Type 3 pure water

The RiOs Essential solution integrates complementary water purification techniques, including pretreatment and high-performance reverse osmosis (RO) membranes. In addition, temperature compensation ensures dependable, constant flow rates. Systems are available in 5, 8, 16 or 24L models to match the specific volume needs of your laboratory.

- Temperature compensation ensures dependable, constant flow rates
- Advanced reverse osmosis technology with high level recovery loop reduces water consumption by 50% or more
- Intuitive system controls, with system alert and alarm icons shown on a color-coded backlit LCD display
- Automatic RO self-maintenance functions

Pure (Type 3) Product Water Quality

- Product flow rate (±15%, 7 to 35°C): 5, 8, 16 or 24 L/hr.
- Ionic content: Typical rejection >95%
- Organics and Particulates: Typical rejection >99%

System Information

- Dimensions: 13.35D × 10.55W × 18.5"H (33.9 × 26.8 × 47cm)
- Net weight: 23.9-26.7 lb. (10.9-12.1kg)
- Operating weight: 31.7-34.5 lb. (14.4-15.7kg)
- Electrical feed voltage: 100-230V ±10%
- Electrical feed frequency: 50-60 Hz
- Tap (feed) water connection: 0.5" Gaz M

Feed Water Requirements

- Water quality: Potable tap water

Millipore RiOs Essential Water Purification System

- Temperature: 5° to 35°C
- Fouling index: <12
- Free chlorine: <3 ppm
- Min. feed water pressure: 1 bar
- Max. feed water pressure: 6 bar

COMPLIANCE: Manufactured in an ISO 9001 v. 2008 and ISO 14001-v. 2004-registered site. Certified for safety and electro-magnetic compatibility (CE, cUL, FCC).

Flowrate	Cat. No.	Each
5L/h	**ZR0E0050US**	4730.00
8L/h	**ZR0E0080US**	5520.00
16L/h	**ZR0E0160US**	6280.00
24L/h	**ZR0E0240US**	7040.00

Thermo Scientific

Thermo Scientific™ Barnstead™ GenPure™ xCAD Water Purification System

Extremely compact footprint increases elbow-room

Integrated feedwater monitoring

- Real-time TOC monitoring for continual measurement of organic substances present in the water
- Additional measuring cell monitors feedwater conductivity
- If the quality of the feedwater drops below the set value, a fault message is immediately displayed
- Online TOC measurement with UV intensity monitoring (available on systems with optional TOC only)
- Continuous monitoring of UV intensity removes the risk of false TOC values due to diminished UV intensity
- Fault message alerts user when the UV lamp intensity is no longer sufficient for accurate TOC measurements

UV Photo-oxidation 185/254nm

- High-performance UV assembly reliably reduces the content of microorganisms and their metabolites

Ready to use

- Feedwater pressure switch, wall bracket, UV lamp, ultrapure cartridge, sterile filter all included in one part number

Measurement of conductivity/resistivity

- Conductivity cells are carefully calibrated prior to each measurement via built-in reference resistance with cell constants at 0.01 cm-1
- Temperature measurements are made by a platinum chip sensor with± 0.1°C accuracy

Quick-connect cartridge replacement

- Aquastop quick-connect capability enables cartridge replacement within seconds even mid-operation

Exact dosing

- Electronic dosing for fully automatic volume control of 0.01 to 65L with < 0.5% accuracy

GLP-compliant documentation

- All GenPure™ systems exceed international standards ASTM Type I, ISO 3696Grade 1, ASTM D1193 and CLSI-CLRW.
- Real-time clock and code-protected operating system prevents unauthorized changes to system settings

Barnstead GenPure with xCAD Remote Dispenser

- RS-232 interface with adjustable send interval for safe data transfer of all measured data, faults, date and time to a PC computer or log printer
- Digital microprocessor control automatically monitors and stores faults from the last four weeks
- USP-compliant conductivity measurement with temperature compensation can be switched on or off

Specifications	
Flow rate, max.	Up to 2L/min.
Operating pressure, min/max	2 to 6 bar
Conductivity	0.055µS/cm
Resistance at 25°C	18.2MΩ×cm
Bacterial content (CFU/mL)	P1
Particles >0.2µM/mL	P1
Electrical Requirements	90-240V 50 Hz
Power Consumption	0.1kW
Feedwater connector	R 3/4"
Dimensions (D × W ×H)	33 × 37.2 × 61.5mm
Temperature min./max.	2° - 35°C

Description	TOC	Endotoxins (EU/mL)	Weight	Mfr. No.	Cat. No.	Each
GenPure xCAD ultrapure water system (bench)	5 to 10ppb	----	22kg	50131286	**10-451-069**	7468.28
GenPure xCAD ultrapure water system with ultrafiltration membrane and xCAD remote dispenser (bench)	5 to 10ppb	0.001	23kg	50131250	**10-451-065**	8106.30
GenPure xCAD UV/UF water system	1 to 5ppb	0.001	23kg	50131252	**10-451-066**	9138.23
GenPure xCAD UV water system	1 to 5ppb	----	23kg	50131254	**10-451-067**	8521.25
GenPure xCAD UV-TOC water system	1 to 5ppb	----	24kg	50131296	**10-451-070**	9229.38
GenPure xCAD UV/UF-TOC water system	1 to 5ppb	0.001	25kg	50131298	**10-451-071**	9856.47
GenPure xCAD ultrapure water system with xCAD remote dispenser (wall)	5 to 10ppb	----	22kg	50131300	**10-451-072**	7468.28
GenPure xCAD ultrapure water system with ultrafiltration membrane and xCAD remote dispenser (wall)	5 to 10ppb	0.001	23kg	50131302	**10-451-073**	8096.18
GenPure xCAD UV/UF water system	1 to 5ppb	0.001	23kg	50131315	**10-451-074**	9138.23
GenPure xCAD UV water system	1 to 5ppb	----	23kg	50131317	**10-451-075**	8531.37
GenPure xCAD UV-TOC water system	1 to 5ppb	----	24kg	50131321	**10-451-076**	9219.26
GenPure xCAD UV/UF-TOC water system	1 to 5ppb	0.001	25kg	50131323	**10-451-077**	9856.47

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Barnstead™ GenPure™ Pro

Ultrapure 18.2 megohm-cm water with consistent quality

Dispensing for a variety of tasks

- New flexible dispenser offers a radius of (60cm) 24" from the system for filling larger vessels or glassware washing

Leak Detection

- Internal leaks can be detected and an error displayed

Integrated feedwater monitoring

- An additional measuring cell monitors feedwater conductivity. Any exceeding of the limiting value is immediately displayed to maximize cartridge life.
- Online TOC measurement with UV intensity monitoring (available on systems with optional TOC only)
- Real-time TOC monitoring for continual measurement of organic substances present in the water
- Continuous monitoring of UV intensity removes the risk of false TOC values due to diminished UV intensity
- Fault message alerts user when the UV lamp intensity is no longer sufficient for accurate TOC measurements

UV Photo-oxidation 185/254nm

- High-performance UV assembly reliably reduces the content of microorganisms and their metabolites
- UV oxidation also reduces organic compounds in the water to ultra-low levels

Ready to use

- Feedwater pressure switch, wall bracket, UV lamp, ultrapure cartridge, sterile filter, all included in one part number
- Standard leak detection or alerts user to leaks

Measurement of conductivity/resistivity

- Conductivity cells are carefully calibrated prior to each measurement via built-in reference resistance with cell constants at 0.01 cm-1
- Temperature measurements are made by a platinum chip sensor with ±0.1°C accuracy

Quick-connect cartridge replacement

- Aquastop quick-connect capability enables cartridge replacement within seconds even mid-operation
- Exact dosing
- High precision POM draw-off valve for dispensing with sterile filter
- Electronic dosing for fully automatic volume control of 0.01to 65L with L2% accuracy

GLP-compliant documentation

- Real-time clock and code-protected operating system prevents unauthorized changes to system settings
- RS-232 interface with adjustable send interval for safe data transfer of all measured data, faults, date and time to a PC computer or log printer
- Digital microprocessor control automatically monitors and stores faults from the last four weeks
- USP-compliant conductivity measurement with temperature compensation can be switched on or off

Tilting Control Panels for Easy Viewing

- Ergonomically designed controller tilts for ease-of-use and better visibility
- Illuminated four-line alpha-numeric display

COMPLIANCE:

All GenPure systems exceed international standards ASTM Type I, ISO 3696 Grade 1, ASTM D 1193 and CLSI.

Specifications	
Flow rate, max.	Up to 2L/min.
Operating pressure min./max.	0.1 to 6 bar
Conductivity	0.055µS/cm
Resistance at 25°C	18.2MΩ×cm
Bacterial content (CFU/mL)	P1
Particles >0.2µM/mL	P1
Electrical Requirements	90-240V 50/60Hz
Power consumption	0.1kW
Feedwater connector	3/4" NPT
Dimensions (D × W × H)	47.2 × 33 × 61.5mm (18.6 × 13 × 24.2 in.)
Temperature min./max.	2° - 35°C

Description	TOC	Endotoxins (EU/mL)	Mfr. No.	Cat. No.	Each
GenPure Pro ultrapure water system	5 to 10ppb	----	50131956	**10-451-212**	7740.00
GenPure Pro ultrapure water system with UV-photo-oxidation	1 to 5ppb	P0.001	50131952	**10-451-213**	8481.00
GenPure Pro ultrapure water system with ultrafiltration membrane	5 to 10ppb	P0.001	50131954	**10-451-214**	8181.00
GenPure Pro ultrapure water system with UV-photo-oxidation and ultrafiltration membrane	1 to 5ppb	----	50131950	**10-451-215**	8931.00
GenPure Pro ultrapure water system with UV-photo-oxidation and TOC monitor	1 to 5ppb	----	50131948	**10-451-216**	8982.00
GenPure Pro ultrapure water system with UV-photo-oxidation, ultrafiltration membrane and TOC monitor	1 to 5ppb	P0.001	50131922	**10-451-217**	9431.00

Thermo Scientific™ Barnstead™ GenPure™

Outstanding control, high-precision and USP-complying conductivity measurement

- Integrated feedwater monitoring
- An additional measuring cell monitors feedwater conductivity. Any exceeding of the limiting value is immediately displayed maximizing cartridge life
- Online TOC measurement with UV intensity monitoring (available on systems with optional TOC only)
- Real-time TOC monitoring for continual measurement of organic substances present in the water
- Continuous monitoring of UV intensity removes the risk of false TOC values due to diminished UV intensity
- Fault message alerts user when the UV lamp intensity is no longer sufficient for accurate TOC measurements
- UV Photo-oxidation 185/254nm
- High performance UV assembly reliably reduces the content of microorganisms and their metabolites

Ready to use

- Feedwater pressure switch, wall bracket, UV lamp, ultrapure cartridge, sterile filter, all included with one part number

Measurement of conductivity/resistivity

- Conductivity cells are carefully calibrated prior to each measurement via built-in reference resistance with cell constants at 0.01cm-1
- Temperature measurements are made by a platinum chip sensor with ± 0.1°C accuracy

Quick-connect cartridge replacement

- Aquastop quick-connect capability enables cartridge replacement within seconds even mid-operation

GLP-compliant documentation

- All GenPure systems exceed international standard ASTM Type I, ISO 3696 Grade 1, ASTM D1193 and CLSI-CLRW
- Real-time clock and code-protected operating system prevents unauthorized changes to system settings
- RS-232 interface with adjustable send - interval for safe data transfer of all measured data, faults, date and time to a PC computer or log printer
- Digital microprocessor control automatically monitors and stores faults from the last four weeks
- USP-compliant conductivity measurement with temperature compensation can be switched on or off

GenPure

Tilting control panels for easy viewing

- The ergonomically designed controller tilts for optimal key pressing and easy readability
- Illuminated four-line alpha-numeric display

Specifications	
Flow rate, max.	Up to 2L/min.
Operating pressure min./max.	2 to 6 bar
Conductivity	0.055µS/cm
Resistance at 25°C	18.2MΩ×cm
Bacterial content (CFU/mL)	P1
Particles >0.2µM/mL	P1
Electrical requirements	90-240V, 50/60Hz
Power consumption	0.1kW
Feedwater connector:	R 3/4"
Dimensions (D × W × H)	330 × 372 × 615mm
Temperature min./max.	2° - 35°C

Description	TOC	Endotoxins (EU/mL)	Weight	Mfr. No.	Cat. No.	Each
GenPure ultrapure water system	5 to 10ppb	----	22kg	50131211	**10-451-060**	7029.16
GenPure ultrapure water system with ultrafiltration membrane	5 to 10ppb	0.001	23kg	50131235	**10-451-063**	7666.18
GenPure ultrapure water system with UV-photo-oxidation and ultrafiltration membrane	1 to 5ppb	0.001	23kg	50131217	**10-451-061**	8716.27
GenPure ultrapure water system with UV-photo-oxidation	1 to 5ppb	----	23kg	50131243	**10-451-064**	8080.15
GenPure ultrapure water system with UV-photo-oxidation and TOC monitor	1 to 5ppb	----	24kg	50131229	**10-451-062**	8948.28
GenPure ultrapure water system with UV-photo-oxidation, ultrafiltration membrane and TOC monitor	1 to 5ppb	0.001	25kg	50131256	**10-451-068**	9413.27

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Thermo Scientific™ Barnstead™ MicroPure™

Compact and reliable

Smart features

- Backlit display tilts for easy viewing
- Variable speed dispensing
- Optional integrated 6L feedwater reservoir so you can place the system without direct access to a water line

Monitor feedwater quality

- Good feedwater quality leads to consistently ultrapure water and a longer cartridge service life to maximize cartridge life

Smart design

- Recirculation pump prevents bacterial growth during standstill and allows for constant monitoring of all system functions, allowing for the immediate display of fault messages if a problem is detected
- Systems ship fully equipped with pressure reducer, ultrapure cartridge and 0.2 µm sterile filter

Superior filters

- Ultrafilter is flushed automatically to assure the highest retention of endotoxins and nucleases, which produces a long two year lifetime
- Validated 0.2 µm final filter with folded membrane can be sterilized up to 5 times

Specifications	
Operating pressure min./max.	0.1 to 6 bar
Conductivity	0.055µS/cm
Resistance at 25°C	18.2MΩ×cm
Bacterial Content (SFU/mL)	<1
Particles > 0.2µM/mL	<1
Electrical Requirements	90-240V/50-60Hz
Power Consumption	0.06kW
Dimensions (D × W × H)	300 × 305 × 545mm
Temperature min./max.	2° - 35°C

Description	Flowrate	TOC	Endotoxins (EU/mL)	Weight	Mfr. No.	Cat. No.	Each
MicroPure ultrapure water system	1.5L/min.	5 to 10ppb	----	17kg	50132366	**10-451-092**	3565.07
MicroPure UV ultrapure water system with UV-photo-oxidation	1.5L/min.	1 to 5ppb	----	17kg	50132373	**10-451-098**	4343.16
MicroPure UF, ultrapure water system with ultra filtration membrane	1.5L/min.	5 to 10ppb	0.001	17kg	50132368	**10-451-094**	4262.08
MicroPure UF/UV, ultrapure water system with ultra filtration membrane and UV-photo¡oxidation	1.5L/min.	1 to 5ppb	0.001	17kg	50132370	**10-451-096**	4898.14
MicroPure ultrapure water system with integrated 6L feedwater tank	1L/min.	5 to 10ppb	----	19kg	50132367	**10-451-093**	3758.00
MicroPure ultrapure water system with ultrafiltration membrane and an integrated 6L feedwater tank	1L/min.	5 to 10ppb	----	19kg	50132369	**10-451-095**	4527.00
MicroPure ultrapure water system with UV-photo-oxidation and integrated 6L feedwater tank	1L/min.	1 to 5ppb	0.001	19kg	50132374	**10-451-099**	4454.00
MicroPure ultrapure water system with UV-photo-oxidation, ultrafiltration membrane and integrated 6L feedwater tank	1L/min.	1 to 5ppb	0.001	19kg	50132372	**10-451-097**	5084.00

THINK GREEN

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Thermo Scientific™ Barnstead™ Smart2Pure™

3 or 6L of ultrapure water per hour

The Thermo Scientific Barnstead Smart2Pure water purification system converts tap water into both ASTM Type 1 and 2 water all in one compact, easy-to-use box.

Powerful performance

- Based on your requirements, choose from capacities of 3, 6 or 12L/hr.

Lasting economy

- Water purification progresses through independent cartridges with Aquastop quick connects for fast replacement
- Module 1 - Combination of pretreatment and the reverse osmosis membrane
- Module 2 - Polishing cartridge contains high-quality ultrapure resin for consistent purity and long cartridge life

Easy to operate

- Dispensing is easy and features variable speed to control flow
- The display can be tilted for optimal reading
- Optional UV bulb and UF ultrafilter to customize ultrapure water

Placement options

- Position on laboratory bench
- Mount it on the wall

Smart integrated 6L reservoir for the Smart2Pure 3 and 6

- Constructed with pigment-free materials
- Conical bottom outlet allows for complete draining and efficient cleaning and disinfection

Smart2Pure 12 offers reservoir options, either 30 or 60L

- Large opening for easy and effective cleaning by hand.
- Sterile venting filter/reservoir overflow protects against contamination by microorganisms
- CO2 adsorber prevents TOC value increases from drawn-in CO2
- Polyethylene reservoir is opaque to light
- Recirculation pump protects the high purity water from bacterial growth during standstills and maintains the low conductivity value
- Wall-mount optional for simple space-savings
- Conical bottom outlet allows for complete draining and efficient cleaning and disinfection

Optional Hand Dispenser

- Gain increased flexibility by adding a hand dispenser with 3m cord (part# 50138221)

Smart2Pure

Specifications	
Operating pressure in bar, min/max	1 to 6 bar
Type 1 - Conductivity	0.055µS/cm
Type 1 - Resistance at 25°C	18.2MΩ×cm
Bacterial content (CFU/mL)	P1
Particles >0.2µM/mL	P1
Type 2 - Conductivity	0.067 to 0.1µS/cm
Type 2 - Resistance at 25°C	15 to 10MΩ×cm
Type 2 - Bacterial Retention	99%
Electrical Requirements	100-240V, 50/60 Hz
Power Consumption	0.06kW
Feedwater Connector	3/4 in. NPT
Dimensions (D × W × H)	400 × 305 × 545mm
Weight	22kg

Description	Permeate performance at 15°C	Mfr. No.	Cat. No.	Each
Smart2Pure 3L/hr., with 6L Integrated Tank	3L/hr.	50129869	**10-451-047**	4343.11
Smart2Pure 3L/hr., with UV Lamp and 6L Integrated Tank	3L/hr.	50129872	**10-451-049**	5211.24
Smart2Pure 3L/hr., with UV Lamp, Ultrafilter and 6L Integrated Tank	3L/hr.	50129688	**10-451-045**	5747.12
Smart2Pure 3L/hr., with Ultrafiltration Membrane and 6L Integrated Tank	3L/hr.	50129870	**10-451-048**	4908.24
Smart2Pure 6L/hr., with 6L Integrated Tank	6L/hr.	50129873	**10-451-050**	6615.15
Smart2Pure 6L/hr., with UV Lamp and 6L Integrated Tank	6L/hr.	50129885	**10-451-052**	7474.23
Smart2Pure 6L/hr., with UV Lamp, Ultrafilter and 6L Integrated Tank	6L/hr.	50129887	**10-451-053**	8019.16
Smart2Pure 6L/hr., with Ultrafiltration Membrane and 6L Integrated Tank	6L/hr.	50129874	**10-451-051**	7181.28
Smart2Pure 12L/hr.	12L/hr.	50129888	**10-451-054**	7979.16
Smart2Pure 12L/hr., with UV Lamp	12L/hr.	50129890	**10-451-056**	9029.20
Smart2Pure 12L/hr., with Ultrafiltration Membrane	12L/hr.	50129889	**10-451-055**	8625.34
Smart2Pure 12L/hr., with UV Lamp and Ultrafilter	12L/hr.	50129845	**10-451-046**	9352.19

Thermo Scientific™ Barnstead™ E-Pure™ Cartridge Kits

For use with Thermo Scientific Barnstead E-pure ultrapure water purification systems.

Choose the cartridge pack according to your feed water and need for organic free water.

Description	Mfr. No.	Cat. No.	Each
Cartridge kit for E-Pure 3-holder, Tap feed, Organic free	D5022	**09-050-268**	744.45
Cartridge kit for E-Pure 4-holder, Tap feed, Organic free	D5023	**09-050-269**	755.48
Cartridge kit for E-Pure 3-holder; Tap feed	D5029	**09-050-278**	491.37
Cartridge kit for E-Pure 4-holder; Tap feed	D5028	**09-050-277**	639.34

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

Thermo Scientific™ Barnstead™ Pacific™ TII

Converts tapwater into 15 - 10MΩ.cm high-purity water

Multiple options for Type 2 water

- Five system options with permeate flows of 3, 7, 12, 20 or 40L/hr.
- Future system upgrades accommodate greater capacities to meet growing water demands
- Space-saving design permits benchtop installation or wall mounting with integrated mounting bracket

Operational reliability

- Microprocessor controlled for automatic operation with continuous monitoring of all critical parameters
- Automatic return to "operating" mode ensures recirculation during standstill periods
- Optional UV lamp prevents biological contamination

Easy to operate

- Resistivity/conductivity clearly displayed on large back-lit control panel that tilts for optimum viewing
- Status of current operating mode clearly indicating "production", "stand-by", "cleaning" modes
- Reservoir fill-level shown as %
- System parameters are code-protected to prevent accidental changes to set points
- Water is dispensed directly from storage tank

GLP-Compliant documentation

- Optional printer connects to RS-232 port for data recording and traceability
- Cell constant of 0.01cm-1 ensures precise conductivity measurements
- Temperature compensation for the conductivity measurement has an accuracy of ±0.1°C (in conformity with USP 645)

Optional Hand Dispenser

- Gain increased flexibility by adding a hand dispenser with 3m cord which connects to tank. Use only with a tank equipped with a pressure pump (06.5032, 06.5062, 06.5082). Ships with a 0.2 micron final filter. (Part #50138221)

Pacific TII

Specifications	
Operating pressure, min/max	2 to 6 bar
Conductivity	0.067 to 0.1µS/cm
Resistance at 25°C	15 to 10MΩ×cm
TOC	P30ppb
Bacterial retention	99%
Silica removal	>99%
Electrical requirements	90-240V/50Hz
Power consumption	0.08kW
Feedwater connector	3/4 in. NPT
Dimensions (D × W × H)	330 × 372 × 613mm
Weight	25kg
Temperature min./max.	2° - 35°C

Description	Permeate performance at 15°C	Mfr. No.	Cat. No.	Each
Pacific TII 3L/hr.	3L/hr.	50132121	**10-451-079**	5605.20
Pacific TII 3 with UV Light 254nm	3L/hr.	50132129	**10-451-084**	6585.25
Pacific TII 7L/hr.	7L/hr.	50132123	**10-451-080**	6201.23
Pacific TII 7 with UV Light 254nm	7L/hr.	50132131	**10-451-085**	7161.13
Pacific TII 12L/hr.	12L/hr.	50132124	**10-451-081**	6959.17
Pacific TII 12 with UV Light 254nm	12L/hr.	50132132	**10-451-086**	7938.23
Pacific TII 20L/hr.	20L/hr.	50132125	**10-451-082**	8080.25
Pacific TII 20 with UV Light 254nm	20L/hr.	50131982	**10-451-078**	9059.30
Pacific TII 40L/hr.	40L/hr.	50132127	**10-451-083**	9201.32
Pacific TII 40 with UV Light 254nm	40L/hr.	50132133	**10-451-087**	10,180.38

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Thermo Scientific™ Barnstead™ Pacific™ RO

Functional and economical production of high-purity water

Product Features

- Five system options with permeate flows of 3, 7, 12 or 20 or 40L/hr.
- Space-saving design allows system to sit on the laboratory bench or be mounted on the wall
- Simple system upgrade accommodates future pure water capacity requirements

Reliable operation

- Microprocessor control offers automatic operation with continual monitoring of all important parameters
- Required filling level of the reservoir can be customized
- Automatic return to operating mode ensures recirculation during periods of standstill

Easy-to-operate clear display

- Resistivity/conductivity clearly displayed on large back-lit control panel that tilts for optimum viewing
- Status of current operating mode clearly indicates "production", "stand-by", "cleaning" modes
- Reservoir fill-level shown as %

Integrated feed water monitoring

- Good quality feed water is a prerequisite for high purity water and extends cartridge service life

GLP-compliant documentation

- Real-time clock records system errors and faults
- Ongoing data storage collects four weeks information displayed in clear text
- Operating system is code-protected to prevent unauthorized changes to system settings
- RS-232 interface with adjustable sender interval allows for customized timing of data transmission of measured values and faults to a PC or data printer
- Cell constant of 0.16 cm-1 ensures precise conductivity measurements

Pacific RO pretreatment

- Two 10" (25.4cm) cartridge filter housings with a 5µm prefilter + activated carbon to prevent entry of particles >5µm and high concentrations of free chlorine—includes hardness stabilizer cartridge which binds calcium and prevents its precipitation.

Worry-free pure water storage

- Reservoir are constructed of pigment-free polyethylene
- Conical bottom allows for easy cleaning, disinfecting and complete emptying

Optional Hand Dispenser

- Gain increased flexibility by adding a hand dispenser with 3 meter cord which connects to tank. Use only with a tank equipped with a pressure pump (06.5032, 06.5062, 06.5082). Ships with a 0.2 micron final filter. (Part #50138221)

Specifications	
Operating pressure min./max.	1.5 to 6 bar
Bacterial retention	99%
Electrical requirements	230V, 50/60Hz
Power consumption	0.1kW
Feedwater Connector	3/4 in. NPT
Dimensions (D × W × H)	330 × 372 × 603mm
Weight	21kg
Temperature min./max.	2° - 35°C

Description	Permeate Performance at 10°C	Mfr. No.	Cat. No.	Each
Pacific RO 3L/hr.	3L/hr.	50132385	**10-451-100**	3698.00
Pacific RO 7L/hr.	7L/hr.	50132386	**10-451-101**	4291.00
Pacific RO 12L/hr.	12L/hr.	50132387	**10-451-102**	5053.00
Pacific RO 20L/hr.	20L/hr.	50132388	**10-451-103**	6168.00
Pacific RO 40L/hr.	40L/hr.	50132389	**10-451-104**	7281.00

Thermo Scientific™ Point-of-Use Filter Inserts

For use with 10 inch prefilter housings

Prefilter protects installations and systems from undissolved substances in water.

Description	Filter Size	Pore Size	Flow rate (at D p=0.2 bar)	For Use with	Mfr. No.	Cat. No.	Each
Prefilter + activated carbon	10 in.	5µm	750L/hr.	10 in. prefilter housings (Mfr. No. 06.5310, 06.5311 or 06.5312)	06.5201	**10-451-114**	116.73
Sterile filter	10 in.	0.2µm	500L/hr.	10 in. prefilter housings (06.5310, 06.5311 or 06.5312)	06.5555	**10-451-024**	354.25

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

ACCESSORIES

Thermo Scientific™ Ion Exchange Stainless-Steel Cartridges

Pressure-Resistant and ready-to-connect

Optimal performance is ensured by the flow design and the quality-controlled ion exchange resins. Provide fully demineralized water with only a very low conductivity.

To function reliably, ion exchange cartridges require not only high-quality mixed bed resins, but also a reliable regeneration technology coupled with high-grade chemicals. Regeneration services feature recorded evidence of the capacity and quality for every batch created. These records include:

- Receiving inspection
- Batch test record
- TOC-Monitoring
- DIN EN ISO 9001 : 2000

Cartridge Specifications

- Pressure resistant up to 10 bar
- Water temperature maximum is 30°C
- Material for the cartridge is stainless steel V4A
- Connectors are R3/4“
- Wall mount for each cartridge is not included, but can be ordered using Mfr. part number 03.1405

10-451-001

Description	Flow Rate	Capacity at 10° Total Dissolved Solids	Purified Water Quality	Dimensions, O.D. × H	Weight	Mfr. No.	Cat. No.	Each
DI 1500 Ion Exchange Stainless Steel (pressure resistant) Cartridges	300L/hr.	1500L	0.1 – 20µS/cm	240 × 410mm	14kg	02.1500	**10-451-001**	825.40

Thermo Scientific™ Pretreatment Cartridges and Filters

For use when the quality of feed water doesn’t match system requirements

- Use pretreatment when your feed water quality doesn’t match the requirements for your system.

Description	For Use with	Mfr. No.	Cat. No.	Each
Double cartridge pretreatment system. A 5µm filter with carbon cartridge and a hardness stabilizer cartridge ship complete with two 10 inch filter housings to control chlorine, organic impurities and control hardness. For Pacific TII and RO.	LabTower TII Pacific RO Pacific TII	09.4000	**10-451-038**	637.45
5µm filter with hardness stabilizer	LabTower EDI LabTower RO	06.5204	**10-451-021**	52.48

SETTING UP A NEW LAB CAN BE OVERWHELMING. LET US HELP.

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ACCESSORIES

Thermo Scientific™ Water Purification Systems Storage Reservoirs

For use with Thermo Scientific™ Barnstead GenPure™, GenPure™ Pro, GenPure™ xCAD, Pacific™ RO, Pacific™ TII and Smart2Pure™ water purification systems

- Large opening for easy and effective cleaning
- Optional safety filters include a CO_2 absorber prevents conductivity increases from drawn-in CO_2 and a sterile overflow to prevent microorganisms from entering and contaminating reservoir water
- Polyethylene reservoir is constructed with inert materials opaque to light
- Recirculation pump (optional) protects water from bacterial growth during standstill while maintaining a low conductivity value
- Wall mount optional for simple and space-efficient wall mounting
- Conical bottom outlet allows for complete draining and efficient cleaning

For use with GenPure, GenPure Pro and GenPure xCAD purification systems only:

- 10-451-009
- 10-451-014

For use with Pacific RO water purification systems only:

- 10-451-008
- 10-451-013
- 10-451-018

For use with Pacific TII water purification systems only:

- 10-451-006
- 10-451-011
- 10-451-016

For use with Pacific RO & Pacific TII water purification systems only:

- 10-451-007
- 10-451-012
- 10-451-017

For use with Smart2Pure 12 water purification systems only:

- 10-451-010
- 10-451-015

Description	For Use with	Mfr. No.	Cat. No.	Each
Storage Reservoir, 30L	Smart2Pure 12	06.5040	**10-451-010**	897.30
Storage Reservoir, 60L	Smart2Pure 12	06.5070	**10-451-015**	1013.02
Storage Reservoir, 30L with level display and recirculation pump	Pacific TII	06.5032	**10-451-006**	1508.66
Storage Reservoir, 30L with level display	Pacific RO Pacific TII	06.5033	**10-451-007**	872.94
Storage Reservoir, 30L with level display and pressure pump	Pacific RO	06.5034	**10-451-008**	1508.66
30L Feed water tank.áPolyethylene tank, opaque to light. 23.5 × 14.9" (598 × 380mm), H × W. Wall mount accessory is Cat. No. 06.5015	GenPure GenPure Pro GenPure xCAD	06.5038	**10-451-009**	848.58
Storage Reservoir, 60L with level display and recirculation pump	Pacific TII	06.5062	**10-451-011**	1626.11
Storage Reservoir, 60L with level display	Pacific RO Pacific TII	06.5063	**10-451-012**	989.67
Storage Reservoir, 60L with level display and pressure pump	Pacific RO	06.5064	**10-451-013**	1626.11
60L Feed water tank. Polyethylene tank, opaque to light. 35.9 × 14.9" (912 × 380 mm), H × W. Wall mount accessory is Cat. No. 06.5016	GenPure GenPure Pro GenPure xCAD	06.5068	**10-451-014**	966.33
Storage Reservoir, 100L with level display and recirculation pump	Pacific TII	06.5082	**10-451-016**	2673.64
Storage Reservoir, 100L with level display	Pacific RO Pacific TII	06.5083	**10-451-017**	2063.60
Storage Reservoir, 100L with level display and pressure pump	Pacific RO	06.5084	**10-451-018**	2673.64

Thermo Scientific™ Deionizer Cartridges

Available for six different applications

Choose the cartridge based on your application needs.

09-050-52

Type	Characteristics	Resin	Capacity	Mfr. No.	Cat. No.	Each
High Capacity	Removes ionized impurities, produces a larger quantity of water than that of the Ultrapure (D0809); however, at a lower resistivity.	Two-bed Ion Exchange	1760 grains	D0803	**09-034**	155.00
Pretreatment	Effectively removes colloids, bacteria, chlorine and organics.	Macroreticular, Activated Carbon	5000 gal.	D0835	**09-034-104**	152.58
Pretreatment Macropure	Effectively removes collloids and bacteria, increases filter life.	Macroreticular, Activated Carbon	2000 gal.	D0836	**09-034-5C**	208.30
Organic Removal	Removes organics and chlorine.	Activated Carbon	5000 gal.	D0813	**09-034-5**	140.38
Organic Removal	Removes organics and cholorine. Ideal for pretreating water systems with high organic levels in the feed water.	Extruded Carbon	5000 gal.	D63112	**09-050-47**	201.97
Ultrapure	Removes ionized impurities to produce high resistivity water with a neutral pH.	Mixed-Bed	875 grains	D0809	**09-034-3**	168.59

*Trademark. See Trademarks at www.fishersci.com

Prices subject to change.

ACCESSORIES

Thermo Scientific™ Barnstead™ Cartridge Kits

09-034-108

Feedwater	Description	Cartridges/Filters Included	Mfr. No.	Cat. No.	Each
Nanopure™ II and older Nanopure Systems					
Tap/Pretreated	4-module Type I Kit	One ea. 09-034 High-Capacity Ion Exchange, 09-034-104 Organic/Colloid; and two 09-034-3 Ultrapure Ion Exchange cartridges	D3804	**09-034-108**	708.20
Tap/Pretreated	4-module Type I Kit with Organicfree Cartridge	One ea. 09-034-5C Macropure Pretreatment, 09-034 High-Capacity Ion Exchange, 09-034-175K Organicfree and 09-034-3 Ultrapure Ion Exchange cartridges.	D3807	**09-050-238**	811.60
Nanopure Quad-style Systems					
Tap	Type I Kit	One ea. 09-034 High-Capacity Ion Exchange, 09-034-104 Organic/Colloid; and two 09-050-276 Ultrapure cartridges.	D4801	**09-050-260**	668.97
Tap	Type I Kit with Organicfree Cartridge	One ea. 09-034-5C Macropure Pretreatment, 09-034 High-Capacity Ion Exchange, 09-050-276 Ultrapure and 09-050-267 Organicfree cartridges.	D4802	**09-050-261**	848.25
Pretreated	Type I Kit	One 09-034-104 Organic/Colloid, two 09-050-276 Ultrapureand one 09-034-3 Ultrapure cartridges.	D5025	**09-050-274**	658.45
Pretreated	Type I Kit with Organicfree Cartridge	One ea. 09-034-5C Macropure Pretreatment, 09-050-267 Organicfree; 09-050-276 Ultrapure and FS090343 Ultrapure cartridges.	D5026	**09-050-273**	905.83
Nanopure Infinity Systems					
Tap/DI	Type I Kit	One 09-050-226 Tap/DI Pretreatment; three 09-050-247 Ultrapure cartridges; and two 09-050-279 Remote Dispenser 0.2µm filters. Capacity, 2037 grains as NaCl.	D50256	**09-050-245**	1131.51

Thermo Scientific Barnstead™ Deionization System Cartridges

Cartridge	Characteristics	For Use With	Mfr. No.	Cat. No.	Price
Sanitization	Sanitizes wetted surfaces, including canisters, connecting tubing and ultrafilter (on Nanopure Bioresearch Grade Systems only.)	Nanopure Quad, E-pure	D50223	**09-034-15**	157.12
Organicfree™ Organic Removal	Combination of carbon and Ultrapure mixed-bed resin. Used after deionization and colloid pretreatment, can provide water with P10ppb of TOC. The 60µm pore size prevents purifying media from entering product.	Nanopure II and older-style Nanopure.	D0820	**09-034-175K**	198.99
	Combination of carbon and Ultrapure mixed-bed resin. Used after deionization and colloid pretreatment, can provide water with P10ppb of TOC. The 60µm pore size prevents purifying media from entering product.	Nanopure Quad, E-pure	D5021	**09-050-267**	206.83

Thermo Scientific™ Barnstead™ ROpure LP™ Cartridges

CartridgesPretreatment/Prefilter, Thin Film

- Extruded carbon cartridge (with 5µm prefilter) extends life of 09-050-37 membrane by removing chlorine from feedwater

Cartridge Use, Composition	Mfr. No.	Cat. No.	Each
Organic Removal	D63112	**09-050-276**	157.32

Ultrapure Ion Exchange

- Capacity: 760 grains as NaCl to 1megohm endpoint
- Can also be used with E-pure™ systems and Nanopure™ systems

ACCESSORIES

Thermo Scientific™ Barnstead™ Easypure™ Cartridges and Filters

For use with Thermo Scientific™ Barnstead™ Easypure™ II ultrapure water purification systems

Choose the cartridge pack according to your feedwater and system.

Description	For Use with	Mfr. No.	Cat. No.	Each
Cartridge pack; deionized feed	Easypure II and Easypure UF	D502126	**09-034-167**	440.48
Cartridge pack; deionized feed	Easypure II UV and Easypure II UV/UF	D502124	**09-034-165**	479.25
Cartridge pack; RO or distilled feed	Easypure II and Easypure UF	D502127	**09-034-168**	440.48
Cartridge pack; RO or distilled feed	Easypure II UV and Easypure II UV/UF	D502125	**09-034-166**	479.25
Ultrafilter	Easypure UF and Easypure II UV/UF	FL1192X1	**13-687-217**	716.14

Thermo Scientific™ Barnstead™ Easypure™ Ultrapure Cartridge

Description	Mfr. No.	Cat. No.	Each
Cleaning Cartridge for E-Pure water purification system	D50233	**09-050-46**	166.44

LabReporter QUARTERLY MAGAZINE

Fulfill all of your needs in the lab and catch up on the latest science news with LabReporter. Our free, quarterly magazine highlights the latest science news as well as our newest chemicals, consumables, equipment and life science products. Request to receive the digital or print edition at **www.fishersci.com**.

Sartorius

Sartorius™ arium™ RO 61316 Reverse Osmosis System

Compact laboratory water purification system designed to produce RO Water for general lab applications

With production volumes up to 16L/hr. and up to 99% rejection rate of ions, bacteria, organics and viruses, automated RO-membrane back-flushing and a constant flowrate, the arium 61316 is the ideal choice for daily laboratory applications. The efficient RO-membranes reduce water wastage and provide excellent product water quality, while ensuring high retention rates of the water impurities. By the use of an optional closed pressurized tank (30, 70, 100L) the RO product water will be distributed with up to 3 bar to the point of use. This unique feature provides a pressurized product-water flow for all your lab applications. There is no need for an additional distribution pump.

- Four-line alphanumerical display
- Simple menu navigation
- Displaying conductivity, rejection rate, tank-level, temperature etc.
- Typical conductivity of less than 20µS/cm
- Production capacity up to 380L per day
- Easy to change pre-treatment cartridge and RO-modules
- Automatic RO-membrane-back-flush with RO-permeate
- Constant flow rate
- Several alarm functions
- Product water storage in open gravity or closed pressurized tank
- Serial interface RS-232
- PLC interface for external communication
- Inlet Feedwater Requirements: Potable tap water feed only (feedwater to meet drinking water standards of the U.S., European Union or Japan)

Specifications:

- Dimensions: 13.15D × 16.85W × 19"H (33.4 × 43 × 48cm)
- System Weight: 31 lb. (14kg)
- Operation Weight: 44 lb. (20kg)
- Electrical Reqts: 100-240VAC 50-60Hz single phase
- Minimum inlet pressure: 1.2 bar/15psi
- Maximum inlet pressure: 6.8 bar/100psi
- Temperature: 5°-30°C (41°-86°F)
- Hardness (max CaCO3): 360ppm or softened water
- Silt density index: <3
- Free chlorine: 0.1 ppm
- Turbidity: <1 NTU
- Iron (total as Fe): P0.1 ppm

Description	Mfr. No.	Cat. No.	Each
arium RO 61316 Reverse Osmosis System	61316	**14-555-483**	4210.00

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Sartorius™ arium™ Pro ASTM TYPE 1 Ultrapure Water Systems

Produces ASTM type 1 water for critical analysis like HPLC, PCR, antibody production, cell culture media preparation or electrophoresis.

The arium Pro series consist of flexible systems with device configurations that can be specially custom-tailored to applications and feature an outstanding cost-benefit ratio. All systems meet and exceed ASTM Type 1 water quality and ensure the best, reproducible results. Per hour, an arium pro can deliver up to 120 l of ultrapure water with a conductivity of 0.055µS/cm (18.2 megaohm/cm at 25°C) and consistently high quality. When a Sartopore° 2 150 final filter is used, arium pro will deliver ultrapure water that is practically free of microorganisms.

- Five systems to choose acc. to application
- Optimized components and cartridge materials with topdown-flow technology
- Optional, integrated UV lamp (185/254nm) for eliminating bacteria and organics; controlled by reliable TOC monitoring
- Display with touch-activated functions and intuitive menu navigation
- Integrated real-time monitoring and data display: feed conductivity, total water consumption, pressure regulator
- PIN-protected access to basic settings/service
- Convenient SD card slot
- System can be chosen based on daily work
- Guarantees a long service life and optimal water purification
- Reliable water quality ensures reproducible results
- Easy operation; no user manual needed
- Optimal control of constant water flow and consistent water quality without extra costs
- Prevents user operating errors
- Supports reliable recording of important data

14-556-224

Description	Endotoxin EU per mL	TOC Level	Application	Mfr. No.	Cat. No.	Each
arium pro System						
Wall Mounted	NA	P 4 ppb	General	H2OBASIC-B	**14-555-484**	4200.00
Benchtop	NA	P 4 ppb	General	H2OBASIC-T	**14-555-485**	5660.00
arium pro System (DI)						
Wall mounted	NA	P4 ppb	General	H2OPRO-DI-B	**14555486**	7670.00
Bench integrated	NA	P4 ppb	General	H2OPRO-DI-D	**14555488**	7940.00
arium pro with ultra filter (UF)						
Wall mounted	P0.001	P4 ppb	Low Pyrogens, DNAse-RNAse Free	H2OPRO-UF-B	**14555489**	6660.00
arium pro with UV lamp (UV)						
Bench integrated	NA	P1 ppb	Low Organics	H2OPRO-UV-D	**14555494**	9650.00
arium pro with UV lamp and Integrated TOC Monitor (UV-TOC)						
Wall mounted	NA	P1 ppb	Low Organics	H2OPRO-UV-B-TOC	**14-557-901**	8310.00
Bench integrated	NA	P1 ppb	Low Organics	H2OPRO-UV-D-TOC	**14-557-902**	8510.00
Benchtop	NA	P1 ppb	Low Organics	H2OPRO-UV-T-TOC	**14-557-903**	8310.00
arium pro with ultra filter and UV-lamp (VF)						
Wall mounted	P0.001	P1 ppb	Low Pyrogens, DNAse-RNAse Free	H2OPRO-VF-B	**14555495**	10,370.00
Benchtop	P0.001	P1 ppb	Low Pyrogens, DNAse-RNAse Free	H2OPRO-VF-T	**14555496**	7710.00
arium pro with ultra filter, UV-lamp and Integrated TOC Monitor (VF-TOC)						
Wall mounted	P0.001	P1 ppb	Low Organics, Low Pyrogens, DNAse-RNAse Free	H2OPRO-VF-B-TOC	**14-557-904**	9010.00
Bench integrated	P0.001	P1 ppb	Low Organics, Low Pyrogens, DNAse-RNAse Free	H2OPRO-VF-D-TOC	**14-557-905**	9210.00
Benchtop	P0.001	P1 ppb	Low Organics, Low Pyrogens, DNAse-RNAse Free	H2OPRO-VF-T-TOC	**14-557-906**	9010.00

Heidolph

Heidolph Tuttnauer PUREWISE Water Distillers

Water purification made easy with the perfect accessory for a Heidolph Tuttnauer autoclave

Features:

- Effectively removes most tap water impurities
- East-to-remove boiler for manual fill — no water hookup
- Automatic shut-off after 1-gal. cycle
- Rust proof stainless-steel condenser
- Unique recessed heating base reduces scale buildup
- Includes collector/storage bottle
- 115V/60Hz

Model 7000 Series adds:

- Extra-large capacity
- Benchtop and floor-standing models available
- Front- or side-mounting spout for easy dispensing and storage
- Directly connects to tap water supply for continuous operation

13-889-482

Description	Type	Capacity	Dimensions (W × D × H)	Weight	Mfr. No.	Cat. No.	Price
Model 9000	Benchtop	1 gal./3.8L" 4.5 hr.; up to 5 gal./18.9 L in 24 h	9.5 × 15 × 16" (24.1 × 38.1 × 40.6cm)	10 lb. (4.5kg)	023211150	**13-889-482**	918.50
Model 7000	Benchtop	3.5 gal./13.3L" 18 hr.	11 × 17 × 17" (28 × 43 × 43cm)	30 lb. (13.5kg)	023211160	**13-889-483**	3840.00
Model 7000-8	Floor-standing	8 gal./30.4L" 30 hr.	11 × 36 × 17" (28 × 91 × 43cm)	37 lb. (16.5kg)	023211170	**13-889-484**	4188.12
Model 7000-12	Floor-standing	12 gal./45.6L" 30 hr.	11 × 42 × 17" (28 × 107 × 43cm)	44 lb. (20kg)	023211180	**13-889-485**	5104.08

Water/Wastewater

Spectrophotometers

Thermo Scientific™ Orion™ AquaMate 7000 Vis Spectrophotometers

Accuracy, dependability and ease of use

- Includes over 260 preprogrammed methods for easy and convenient measurements using Orion AQUAfast™, Merck™, CHEMetrics™ or Hach™ chemistries
- Preprogrammed methods can also be adapted for new chemistries or operators can create their own custom methods
- Instruments allow a one point adjustment on any preprogrammed method to correct for variations in batch reagent chemistries
- A wide variety of vial sizes can be used, including 10mm square vials, 20 and 50mm rectangular vials and an adjustable round vial holder that accommodates 13, 16 and 24mm round vials
- Three USB connections provide the options to store methods and data to a USB memory stick, transfer data to a computer and print hard copy data to an external printer
- Compatible with ink jet and laser printers with HP PCL 5 or greater
- Includes performance verification tests that ensure wavelength accuracy and instrument functionality
- In accordance with GLP and GMP, each verification report gives the time, date and instrument serial number
- The built-in wavelength accuracy test is compatible with either the internal lamp or external calibrated standards
- To validate the instrument performance further, built-in test methods for stray light, noise and resolution are available

INCLUDES:

- Methods on USB memory stick
- 3-position cell holder
- User documentation
- Dust cover
- USB cable
- 110V and 220V power cords

Product Specifications	
Optical Design	Single beam
Spectral Bandwidth	5.0nm
Light Source (Typical Lifetime)	Tungsten-halogen lamp (1000 hours)
Detector	Silicon photodiode
Wavelength	
Range	325 to 1100nm
Accuracy	±1.0nm
Repeatability	±0.5nm
Slew Speed	11,000nm/min
Scanning Speed	10 to 4,200nm/min
Data Interval	1.0, 2.0, 3.0, 5.0nm
Photometric	
Measurement Modes	Absorbance, % transmittance, concentration
Range	-0.1 to 3.0 A ; -0.3 to 125 %T ; ±9999 C
Linearity	Up to 3.0 A at 340nm
Accuracy	0.5 % or ±0.005A, whichever is greater up to 2A
Noise	<0.001 A at 0.0 A, <0.002 A at 2.0 A Peak-to peak at 340nm
Drift	0.002 A/hr. after warm-up
Stray Light	<0.08 %T at 220nm and 340nm, <0.1 %T at 340nm and 400nm, <1.0 %T at 198nm
Display	Graphical with LCD backlight—9.7 × 7.1cm (3.8 × 2.8 in.)
Keypad	Sealed membrane with tactile response keys
Connectivity	USB type A port for USB stick (front panel), USB type B port for computer (rear panel), USB type A port for printer (rear panel)
Dimensions	40L × 30W × 25cm H (15.7 × 11.8 × 9.8 in.)
Weight	8.6kg (19 lb.)
Power Requirements	100-240V; 50/60Hz

Mfr. No.	Cat. No.	Each
AQ7000	**13-650-701**	3861.55

ACCESSORIES

Thermo Scientific™ Orion™ AquaMate Accessories

USB Memory Stick

Can be used with the AquaMate 8000 UV-Vis and AquaMate 7000 Vis Spectrophotometers

The AquaMate Methods USB Memory Stick includes over 260 preprogrammed methods compatible with several leading brands of reagents.

Mfr. No.	Cat. No.	Each
AQ0USB	**13-650-705**	47.14

Power Cords

Can be used with the AquaMate 8000 UV-Vis and AquaMate 7000 Vis Spectrophotometers

AquaMate instruments include the AquaMate 110V US, Japan Plug Power Cord (Cat. No. AQ110V) and AquaMate 220V Euro Plug Power Cord (Cat. No. AQ220V). The AquaMate 240V UK, Singapore Plug Power Cord (Cat. No. AQ240V) and AquaMate China, Australia, New Zealand Plug Power Cord (Cat. No. AQCHNV) need to be purchased separately.

Description	Mfr. No.	Cat. No.	Each
AquaMate power cord, 240V UK plug	AQ240V	**13-650-706**	31.09
AquaMate power cord, 220V Euro plug	AQ220V	**13-650-707**	31.09
AquaMate power cord, 110V US plug	AQ110V	**13-650-708**	31.09
AquaMate power cord, China plug	AQCHNV	**13-650-709**	31.09

Thermo Scientific™ Orion™ AquaMate 8000 UV-Vis Spectrophotometer

Accuracy, dependability and ease of use

13-650-700

- Includes over 260 preprogrammed methods for easy and convenient measurements using Orion AQUAfast™, Merck™, CHEMetrics™ or Hach™ chemistries
- Preprogrammed methods can also be adapted for new chemistries or operators can create their own custom methods
- Instruments allow a one point adjustment on any preprogrammed method to correct for variations in batch reagent chemistries
- A wide variety of vials sizes can be used, including 10mm square vials, 20 and 50mm rectangular vials and an adjustable round vial holder that accommodates 13, 16 and 24mm round vials
- Dual beam optics utilizing a Xenon Flash lamp for an average of five years of maintenance free performance
- 1.8nm spectral bandwidth for optimal resolution
- Three USB connections provide the options to store methods and data to a USB memory stick, transfer data to a computer and print hard copy data to an external printer
- Compatible with ink jet and laser printers with HP PCL 5 or greater
- Includes performance verification tests that ensure wavelength accuracy and instrument functionality
- In accordance with GLP and GMP, each verification report gives the time, date and instrument serial number
- The built-in wavelength accuracy test is compatible with either the internal lamp or external calibrated standards
- The xenon lamp of the AquaMate 8000 UV-Vis spectrophotometer provides an internal standard for wavelength accuracy verification
- To validate the instrument performance further, built-in test methods for stray light, noise and resolution are available

INCLUDES:

- Methods on USB memory stick
- 6-position cell holder
- 3-position cell holder
- 1-position cell holder
- User documentation
- Dust cover
- USB cable
- 110V and 220V power cords

Mfr. No.	Cat. No.	Each
AQ8000	**13-650-700**	6695.03

Product Specifications	
Optical Design	Dual beam—internal reference detector
Spectral Bandwidth	1.8nm
Light Source (Typical Lifetime)	Xenon flash lamp (5 years)
Detector	Dual silicon photodiodes
Wavelength	
Range	190 to 1100nm
Accuracy	±1.0nm
Repeatability	±0.5nm
Slew Speed	11,000nm/min
Scanning Speed	10 to 4,200nm/min
Data Interval	0.2, 0.5, 1.0, 2.0, 3.0, 5.0nm
Photometric	
Measurement Modes	Absorbance, % transmittance, concentration
Range	-0.5 to 5.0 A ; -1.5 to 125 %T ; ±9999 C
Linearity	Up to 3.5 A at 260nm
Accuracy	±0.005A at 1.0A, <0.00025 at 0.0A
Noise	<0.00050 at 1.0 A, <0.00080 at 2.0 A RMS at 260nm
Drift	<0.0005 A/hr.
Stray Light	<0.08 %T at 220nm and 340nm, <0.1 %T at 340nm and 400nm, <1.0 %T at 198nm
Display	Graphical with LCD backlight—9.7 × 7.1cm (3.8 × 2.8 in.)
Keypad	Sealed membrane with tactile response keys
Connectivity	USB type A port for USB stick (front panel), USB type B port for computer (rear panel), USB type A port for printer (rear panel)
Dimensions	40L × 30W × 25cm H (15.7 × 11.8 × 9.8 in.)
Weight	8.6kg (19 lb.)
Power Requirements	100-240V; 50/60Hz

ACCESSORIES

Thermo Scientific™ Orion™ AquaMate Cell Holders

For use with the AquaMate 8000 UV-Vis and AquaMate 7000 Vis spectrophotometers

The AquaMate 8000 UV-Vis Spectrophotometer includes all three cell holders. The AquaMate 7000 Vis Spectrophotometer includes the 3-Position Cell Holder. Additional cell holders need to be purchased separately.

- The AquaMate 3-Position Cell Holder Cat. No. AQ003C, includes one adjustable holder for 13mm to 25mm round vials, one holder for 20 or 50mm rectangular vials and one holder for 10mm square vials
- The AquaMate 6-Position Cell Holder, Cat. No. AQ006C, is ideal for multi-sample measurements in 10mm square vials
- With one position reserved for a blank, the 6-position cell holder allows the automated analysis of up to five samples
- The AquaMate 1-Position Cell Holder, Cat. No. AQ001C, accommodates a single 10mm square vial

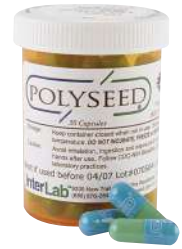
Description	Mfr. No.	Cat. No.	Each
AquaMate 6-position cell holder	AQ006C	**13-650-702**	220.66
AquaMate 3-position cell holder	AQ003C	**13-650-703**	451.35
AquaMate 1-position cell holder	AQ001C	**13-650-704**	145.44

BOD

Polyseed™ BOD and Polyseed-NX™ CBOD Capsules

Produce fast, economical BOD analyses with consistent results

- EPA accepted
- Each capsule contains specialized microbial cultures for use in a broad range of areas involving degradation of industrial and municipal waste
- To use, mix capsule contents with 0.5L of APHA standard dilution water at 20°C (68°F), stir for at least 60 minutes
- Mixture yields seed inoculum for up to 200 BOD tests
- For best results, use within one year of purchase
- Also available as Polyseed-NX, which contains an approved chemical additive for the inhibition of ammonia nitrogen (NH3-N) in wastewater samples for CBOD analysis



13-297-200

ORDERING INFORMATION:
Supplied as a bottle of 50 capsules.

Type	Mfr. No.	Cat. No.	Pack of 50
Polyseed	P 110	**13-297-200**	130.55
Polyseed-NX	P 210	**13-297-201**	173.81

Chlorine

Photometer

Micro Essential Labs Hydrion™ Sanitizer Test Kits

Provides a simple, reliable and economical means to measure quarternary concentration of ammonium, chlorine and iodine sanitizer solutions

Federal, state and local health regulations require users of Quaternary Ammonium Sanitizer Solutions to have appropriate test kits available to verify the strength of sanitizer solutions. Sanitizer solutions are essential in the food service industry to ensure that sanitizers are at the proper concentration specified by the individual manufacturer.

Hydrion Sanitizer Test Kit

Chlorine Test

- For chlorine sanitizing solutions
- Measures 10 to 200ppm
- Color matches at 10-50-100-200ppm
- Two 15' (4.6m) rolls of test paper
- 100 tests

Description	Measurement Ranges	Mfr. No.	Cat. No.	Each
Chlorine Test	10-200ppm	CM 240	**15-420-2Q**	61.50

LaMotte™ Chlorine TRACER PockeTester™

Reads total chlorine from 0.00 to 9.99ppm to 0.01ppm resolution. Extra bold display includes an analog bar graph feature, uses four LR-44 batteries. Readings are not affected by sample color.

- Large 0.75L × 0.93"W (1.9 × 2.8cm) LCD display with analog bar graph
- Memory saves calibration values and stores up to 15 readings
- Sample color or turbidity do not affect readings
- Sample temperature can be displayed in chlorine mode, or in pH mode when using optional pH sensor probe
- Automatically self-calibrates and shuts off when not in use; also indicates when batteries are low

ORDERING INFORMATION:
Overall dimensions: 7.25L × 1.37"W (18.4 × 3.5cm).

INCLUDES:
100 reagent tablets that deliver a precise amount of iodide for a 20mL sample and four LR-44 batteries. Optional accessories include pH, ORP and Cl_2 sensor probes and weighted stand with five sample cups. Contact your Fisher Scientific Customer Service Representative for more details.

22-278-617

Test	Mfr. No.	Cat. No.	Each
Total Chlorine	1740	**22-278-617**	251.50

Reagents

Lovibond™ Powder Packs for Free and Total Chlorine

Premeasured unit dose DPD reagents for water quality testing

- For use in SC450™ Colorimeters and Aqua Comparator™ Test Kits
- Also suitable for use in Hach™ instruments and test kits
- Easy-to-open, sealed foil packets eliminate risk of cross-contamination
- Available for 5, 10 and 25mL sample sizes
- Extended shelf life of up to 5 years

09-053-218

APPLICATIONS:
Municipal Drinking Water and Wastewater Testing; Industrial Wastewater and Process Control Testing; Environmental Water Testing

COMPLIANCE:
US EPA-accepted DPD method

Sample Size	Quantity	Mfr. No.	Cat. No.	Each
Free Chlorine				
0.16 oz. (5mL)	100	RP009-0	**09-053-216**	19.62
0.16 oz. (5mL)	1000	RP009-3	**09-053-217**	162.90
0.33 oz. (10mL)	100	RP010-0	**09-053-218**	21.95
0.33 oz. (10mL)	1000	RP010-3	**09-053-219**	184.90
0.84 oz. (25mL)	100	RP011-0	**09-053-220**	25.00
0.84 oz. (25mL)	1000	RP011-3	**09-053-221**	209.50
Total Chlorine				
0.16 oz. (5mL)	100	RP008-0	**09-053-214**	19.62
0.16 oz. (5mL)	1000	RP008-3	**09-053-215**	160.60
0.33 oz. (10mL)	100	RP012-0	**09-053-222**	21.95
0.33 oz. (10mL)	1000	RP012-3	**09-053-223**	184.90
0.84 oz. (25mL)	100	RP013-0	**09-053-224**	25.00
0.84 oz. (25mL)	1000	RP013-3	**09-053-225**	209.50
Total Chlorine, High Range				
0.33 oz. (10mL) (sulfamic acid)	100	RP219-0	**09-053-315**	18.93
0.33 oz. (10mL) (potassium iodide)	100	RP218-0	**09-053-314**	23.00

Lovibond™ Process Chlorine Analyzer Reagents

Formulated to work with Hach™ CL17™ and other manufacturers' online chlorine analyzers

- Used for 30-day continuous supply

Description	Mfr. No.	Cat. No.	Each
Free Chlorine Reagent Set. Includes DPD Indicator Powder, Free Chlorine Indicator Solution and Free Chlorine Buffer Solution	CA5302-10	**15-399-621**	45.90
Total Chlorine Reagent Set. Includes DPD Indicator Powder, Total Chlorine Indicator Solution and Total Chlorine Buffer Solution	CA5402-10	**15-398-551**	48.05
DPD Indicator Powder, 24 grams	CA5302-21	**15-399-622**	17.70
Free Chlorine Indicator Solution, 473mL	CA5302-22	**15-399-624**	17.70
Free Chlorine Buffer Solution, 473mL	CA5302-23	**15-399-623**	16.00
Total Chlorine Indicator Solution, 473mL	CA5402-22	**15-399-625**	17.10
Total Chlorine Buffer Solution, 473mL	CA-5402-23	**15-399-626**	17.10

Lovibond™ DPD No. 4 Tablets

Convenient blister packaging allows user to push tablet through foil directly into sample

- Each tablet hermetically sealed in individual aluminum foil pocket that protects it from environmental conditions for longer shelf life
- For use with MC500™ Multi-Parameter Handheld Colorimeter (Cat. No. 15-398-470) and SP600 Spectrophotometer (15-398-320)
- Tests for active oxygen in water samples
- Range: 0.1 to 10mg/L

09-534-611

Description	Mfr. No.	Cat. No.	Each
DPD No. 4 Tablets	RT122-0BT	**09-534-611**	14.74

Lovibond™ DPD No. 3 Rapid Tablets

For use with Chlorine Aqua Comparator™ Test Kits

DPD Tablet No. 1 is used to measure free chlorine; after that, DPD Tablet No. 3 is used to measure total chlorine.

- Each tablet hermetically sealed in individual aluminum foil pocket that protects it from environmental conditions for longer shelf life
- Convenient blister packaging allows user to push tablet through foil directly into sample
- Range: 0 to 1mg/L

09-534-616

Description	Mfr. No.	Cat. No.	Each
DPD No. 3 Rapid Tablets	RT129-0BT	**09-534-616**	14.10

Lovibond™ Bromocresol Purple Tablets

For use with pH Aqua Comparator™ Test Kit

- Each tablet hermetically sealed in individual aluminum foil pocket that protects it from environmental conditions for longer shelf life
- Convenient blister packaging allows user to push tablet through foil directly into sample
- For pH measurement in water samples
- pH Range: 5.2 to 6.8

09-534-623

Description	Mfr. No.	Cat. No.	Each
Bromocresol Purple Tablets	RT173-0	**09-534-623**	38.70

Fisherbrand® DPD-Free Chlorine Test Reagent

Delivers the required dose of DPD reagent for a 5mL test sample

- Use with any DPD-based photometer
- Individual premeasured packages of reagent

15-393-57

Test	Sample Size	Cat. No.	Pack of 200
Free Chlorine	0.16 oz. (5mL)	**15-393-57**	75.30

COD

Lovibond™ COD Tube Tests

Premeasured unit dose reagents for water quality testing

- For use in SC400™ Colorimeters and Aqua Comparator™ Test Kits
- Also suitable for use in Hach™ instruments and test kits
- Available in three different concentrations for COD measurements up to 15,000mg/L
- Easy-to-open, sealed vials eliminate risk of cross-contamination
- Extended shelf life of up to five years

09-053 Series COD Tube Tests

APPLICATIONS: For Municipal Wastewater Testing; Industrial Wastewater and Process Control Testing; Environmental Water Testing

COMPLIANCE: US EPA-accepted test method

Range	Quantity	Mfr. No.	Cat. No.	Each
0-150mg/L	25 Tests	TT20720	**09-053-272**	39.05
0-1500mg/L	25 Tests	TT20721	**09-053-273**	39.05
0-15,000mg/L	25 Tests	TT20722	**09-054-105**	39.05

Colorimeters

Thermo Scientific™ Orion™ AQ3070 AQUAfast™ Chlorine Meter

Features fast, simple, free and total chlorine testing for EPA reporting over the range of 0 to 2mg/L

Designed with user in mind, these small, rugged IP67 portable meters have large easy-to-read displays with a very simple user interface using four keys.

- Uses EPA-approved AC4P71 Free Chlorine and AC4P72 total chlorine methods for drinking water and wastewater reporting
- Easy-to-use meter with large display
- Accurate, reproducible results
- Meter also contains calibration curves for AC2099 Chlorine Dioxide, AC3001 pH and AC2098 Cyanuric Acid (reagents sold separately)
- IP67 Waterproof certified by TUV test
- One powder packet and sample for one measurement from 0.02 to 4.0 reading

AQ3070

ORDERING INFORMATION:
Related consumables include: AC4P71 Free Chlorine powder (100 tests), AC4P72 Total Chlorine powder (100), AC2098 Cyanuric Acid tablets (100), AC2099 Chlorine Dioxide tablets (100), AC3001 pH, Phenol Red liquid reagent (2 dropper bottles, 60 tests)

Description	Mfr. No.	Cat. No.	Each
Meter kit	AQ3070	**13-644-505**	406.22
Replacement Tablet Tamping Stir Rod	AC3ROD	**13-644-501**	46.14

INCLUDES:
Meter Kit includes meter, AC4P71 Free Chlorine powder (pk of 100), AC4P72 Total Chlorine powder (pack of 100), 4 sample vials, tablet tamping stir rod, brush, user guide in case.

CERTIFICATIONS:
CE, cTUVus, (TUV 3-in-1 to EMC, US and Canadian standards)

Specifications	
Measurement Method	Photometric
Light Source	Light Emitting Diode (LED)
Wavelength	525nm
Detector	Silicon photodiode
Absorbance Range	0 to 2.5Abs
Calibration Points	Not required if desired; 1 point per method
Display	Customized crystal display (LCD) with icons
Sample Cells	Glass screw cap vials with fill line and indexing mark, 25mm (diameter)
Sample Size	0.33 oz. (10mL)
Operating and Sample Temperature Range	0° to 50°C (32° to 122°F)
Operating Humidity Range	0 to 90% relative humidity, non-condensing at 30°C (86°F)
Power Supply	4 "AAA" alkaline batteries
Battery Life	>3000 tests
Enclosure Rating	IP67 (TUV)
Dimensions	9.84 × 5.9 × 13.38" (25 × 15 × 34cm)
Weight	4.4 lb. (2kg)

Lovibond™ MD6oo™ Multi-Parameter Colorimeter

Rugged, waterproof multi-parameter colorimeters for laboratory and field testing

15-398-470

Easy-to-use and extremely verstaile, the MD600 Multi-Parameter Colorimeter uses Lovibond's "Open Reagent System," which features Powder Pack™, tablets and liquid and ampule reagents to test a wide range of water quality parameters.

- Six-wavelength photo detector array
- Light-emitting diodes and photosensor-intensifier with automatic wavelength selection (430, 530, 560, 580, 610 and 660nm)
- Acid- and solvent-resistant, touch-sensitive keypad with audible feedback
- Supports 70 pre-programmed methods and 20 user-defined methods (10 with calibration point input, 10 with polynominal input)
- Internal memory stores up to 1000 data sets which can be transferred to a computer
- Automatically turns off 20 minutes after the last key press with an audible signal
- Operating conditions: 41° to 104°F; 30-90% relative humidity
- User interface in English, German, French, Spanish, Italian, Portuguese and Polish

ORDERING INFORMATION:
Instrument dimensions: 8.27L × 3.7W × 1.8"H (21 × 9.39 × 4.57cm). Weight: 1 lb. (0.45kg). Power supply: four Mignon AA/LR6 batteries (26 hr. operation or 3500 tests).

INCLUDES:
Three 24mm sample cells, three 16mm sample cells, one 13mm tube adapter, one 16mm tube adapter, four AA batteries, an operator's manual and a carrying case

WARRANTY: Two years **COMPLIANCE:** CE marked

To view available reagents, visit www.fishersci.com

Description	Mfr. No.	Cat. No.	Each
MD600 Multi-Paramter Colorimeter	214020	**15-398-470**	1166.12
Accessories			
24mm sample cell with lid, 12/Pk.	197620	**15-398-471**	12/58.00
16mm sample cell with lid, 10/Pk.	197665	**15-398-472**	10/40.45

Lovibond™ Colorimeters

Rugged, waterproof colorimeters are ideal for laboratory and field testing

- Single- or multi-parameter models
- Large, backlit display
- Real-time clock
- Datalogging capabilities
- Export data using IRiM
- No light shield required

Lovibond Colorimeter

Parameter(s)	Range	Method	Reagent Included	Mfr. No.	Cat. No.	Each
Ammonia	0.01 – 1.0mg/L	Indophenole Blue	RS5540 (100 tests)	SC450-45	**09-053-549**	398.69
Ammonia/ Nitrogen	0.1 – 0.8mg/L	Salicylate	RS5500 (100 tests)	SC450-40	**09-053-548**	398.69
Chlorine (High range)	5 – 200mg/L	KI	KI and acidifying tables (100 tests)	SC450-16	**15-398-606**[1]	394.00
COD	0 – 150mg/L; 0 – 1500mg/L; 0 – 15,000mg/L	Dichromate/H2SO4 reagent	None[2]	SC450-00	**09-053-541**[3]	559.67
Copper	0.05 – 5.0mg/L	Bicinchoninate	RP030 powder pack (100 tests)	SC450-80	**09-053-554**	398.69
Fluoride	0.05 – 2.0mg/L	SPADNS	None[4]	SC450-20	**09-053-544**	398.69
Free and Total Chlorine	0 – 2.0mg/L; 0 – 8.0mg/L	DPD reagent	Free and total chlorine powder packs (100 tests)	SC450-10	**09-053-542**	383.51
Free Chlorine, Total Chlorine and pH	0 – 2.0mg/L; 0 – 8.0mg/L	DPD reagent 9Chlorine; Phenol Red Solution (pH)	Free and total chlorine powder packs (50 tests ea.); pH phenol red solution (15mL)	SC450-15	**09-053-543**	457.50
Iron	0.02 – 3.0mg/L	1,10-Phenanthroline	RP056-0 powder packs (100 tests)	SC450-70	**09-053-552**	398.69
Iron	0.02 – 1.8mg/L	TPTZ	RP055-0 powder packs (100 tests)	SC450-75	**09-053-553**	398.69
Manganese HR	0.1 – 18.0mg/L	Periodate oxidation	RS5100 (100 tests)	SC450-35	**09-053-546**	398.69
Manganese LR	0.01 – 0.7mg/L	PAN	RS5090 (100 tests)	SC450-30	**09-053-545**	398.69
Molybdate	0.03 – 3.0mg/L	Molybdate	RS5450 (100 tests)	SC450-36	**09-053-547**	408.81
Monochloramines / Free Ammonia	0.04 – 4.5mg/L (monochloramines); 0.01 – 0.50mg/L (free ammonia)	Indophenol	RS5800 (100 tests)	SC450-46	**09-053-550**	398.69
Ortho Phosphate	0.06 – 2.5mg/L	Ascorbic acid	RP155-0 (100 tests)	SC450-50	**09-053-551**	398.69
Silica HR	1 – 90mg/L	Silicomolybdate	RS5700 (100 tests)	SC450-90	**09-053-555**	398.69
Silica LR	0.1 – 1.6mg/L	Heteropoly Blue	RS5690 (100 tests)	SC450-91	**09-053-556**	398.69
Total Hardness	2 – 50mg/L; 20 – 500mg/L	Metallphthalein	Hardcheck P Tablets (100 pack)	SC450-61	**15-398-605**	394.00

[1]Automatic data storage; holds 16 data sets
[2]COD test tube reagents for 25 or 150 tests are sold separately
[3]Reactor required to heat (digest) samples at 150°C
[4]Fluoride liquid SPADNS reagent and fluoride standard must be ordered separately

LaMotte™ SMART 3™ Colorimeter Water Quality Analyzer

Multitest colorimeter measures numerous water quality parameters with laboratory accuracy and the convenience of a portable, handheld system

Simple menu-driven operation displays results in concentration (ppm) or absorbance.

- Waterproof to IP67
- More than 75 preprogrammed tests in library and 25 user-entered tests
- Choose any of four wavelengths (see Specifications) to determine absorbance of a sample at a desired wavelength — proper wavelength selection is assured, since all optical filters are included and automatically selected
- Autoblank and auto-off
- Using optional SMARTLink 3 Program and cable (order online), the SMART 3 Colorimeter can interface with any DOS-based computer program to send test data to a database or ASCII delimited file

ORDERING INFORMATION:
Net weight: 11 oz. (0.31kg). Dimensions: 6L × 3.25W × 2.5"H (15 × 8 × 5.5cm).

INCLUDES:
Lithium ion rechargeable battery and USB wall charger, USB cable, four sample tubes, instrument manual including test procedures and quick start guide.

To view available reagents, visit www.fishersci.com

COMPLIANCE: CE marked

03-920-552

Specifications	
Range	Absorbance: 0–125%T
Resolution	Determined by reagent system
Wavelengths	428nm, 520nm, 568nm, 635nm
Bandpass	10nm (typical)
Light Source	4 LEDs
Detector	Four Silicon photodiode with integrated interference filters
Display	160 × 100 backlit LCD, 20 × 6 line display
Sample System	25mm flat-bottom round tubes, 10mm square cuvets, 16mm COD tubes
Output	Up to 500 data points, USB transfer, time and date stamps
Power	Lithium Ion rechargeable battery

Description	Mfr. No.	Cat. No.	Price
LaMotte SMART 3 Colorimeter	1910	**03-920-552**	1044.00

LaMotte™ Series 1200 Single-Parameter Colorimeters

Water-resistant, handheld meters provide fast, accurate, direct results in actual ppm concentrations with photometric accuracy to ±0.001 absorbance units

Test for a variety of analytes using colorimetric single test kits or visual colorimetric/titration test kits.

- Microprocessor allows preprogrammed calibrations to optimally match non-linear curves
- Autozero function
- Flip-top lid over sample chamber eliminates problems with stray light and misplaced light caps
- Chlorine colorimeter kits use unit-dose DPD tablets or DPD liquid reagents; all analytes have enough reagent for 100 tests

22-307-838 with two sample vials (six included).

ORDERING INFORMATION:
Dimensions: 6L × 3.25W × 2.50"H (15 × 8 × 5.5cm). 110V 60Hz. All kits require a 9-volt DC battery. Optional AC adapter sold separately (contact your Fisher Scientific Customer Service Representative for details).

Specifications	
Readout	3.5" digit LCD
Photometric Accuracy	±0.001 Absorbance Unit
Detector	Silicon photodiode
Sample Chamber	Accepts 25mm dia. flat-bottom, capped tubes
Light Source	LED
Interface	RS-232 serial interface
Power	Alkaline, 9-volt DC battery or optional AC adapter

INCLUDES:
Carrying case with six screw cap sample vials, RS-232 port to interface with a datalogger or computer and an instruction manual.

COMPLIANCE:
CE Mark of Compliance for electromagnetic compatibility and safety.

Analyte	Range (ppm)	Test Method (No. of Reagents)	No. of Tests	Mfr. No.	Cat. No.	Each
Ammonia Nitrogen	0–5.0	Nessler (2)	100	3670-01-LI	**22-278-565**	530.23
Chlorine, free and total	0–4.0	DPD Tablets (2)	100	3670-01	**22-278-567**	412.90
Chlorine, free and total	0–4.0	DPD Liquid (3)[1]	140	3680-01	**22-278-568**	405.77
Phosphate	0–3.0	Ascorbic Acid (2)	100	3679-01	**22-278-577**	495.77

[1] *Refills available online; see 22-278-643, -645, and 647.*

YSI™ 900 Chlorine Colorimeter

For the measurement of total chlorine or free chlorine in field or lab

- Waterproof, single parameter instrument
- Automatic data storage; 16 data-sets with date and time stamp
- Large, backlit LCD display
- IP68 waterproof case; easy to hold or set on benchtop
- Innovative light shield
- Improved resolution for specific range requirements
- Auto shutoff ensures extended battery life

15-177-704

Free Chlorine

- Range: 0.02 to 2.0mg/L
- Method: DPD - Free Chlorine Reagent

Total Chlorine

- Range: 0.1 to 8.0mg/L
- Method: DPD - Total Chlorine Reagent

ORDERING INFORMATION:
Dimensions: 15.5L × 7.5W × 3.8cmH (6.1 × 3 × 1.5")
Weight: 260g (0.5 lb.)

WARRANTY:
2-year

CERTIFICATIONS:
CE marked IP68 (1 hour at 0.1 meter); floats

Specifications	
Accuracy	3% Full scale
Memory	Automatic; 16 data sets with time and date stamp
Operating Temperature	5° to 40°C
Power	4 alkaline AAA batteries; approximately 17 continuous hours or 5,000 tests
Resolution	0.01 A (absorbance)

Description	Mfr. No.	Cat. No.	Each
900 Chlorine Colorimeter	250900Y	**15-177-704**	389.00

YSI™ COD Thermoreactors

For COD (chemical oxygen demand) and thermal digestions

CR 2200

- For up to 12 test tubes, with 3 reactor temperatures and 8 fixed programs

CR 3200

- For up to 24 test tubes, with selectable reactor temperatures and 8 user-defined/8 fixed programs

CR 4200

- For up to 2 different temperature blocks with 12 test tubes each, with selectable temperatures and 8 user-defined/8 fixed programs

Thermoreactor	Mfr. No.	Cat. No.	Each
Model CR 2200	1P21-2Y	**15-177-706**	745.00
Model CR 3200	1P22-2Y	**15-177-707**	1050.00
Model CR 4200	1P23-2Y	**15-177-708**	1325.00

YSI™ 910 COD Colorimeter

Waterproof, single parameter instrument

- Automatic data storage; 16 data-sets with date and time stamp
- Large, backlit LCD display
- IP68 waterproof case; easy to hold or set on benchtop
- Innovative light shield
- Improved resolution for specific range requirements
- Auto shutoff ensures extended battery life

15-177-705

COD Low Range

- Range: 0 to 150mg/L
- Method: Dichromate/H2SO4
- Wavelength: 430O

COD Mid Range

- Range: 0 to 1,500 mg/L
- Method: Dichromate/H2SO4
- Wavelength: 610O

COD High Range

- Range: 0 to 15,000 mg/L
- Method: Dichromate/H2SO4
- Wavelength: 610O

ORDERING INFORMATION:
Dimensions: 15.5L × 7.5W × 3.8cmH (6.1 × 3 × 1.5")
Weight: 260g (0.5 lb.)

WARRANTY:
2-year

CERTIFICATIONS:
CE marked; IP68 (1 hour at 0.1 meter); floats

Specifications	
Accuracy	3% Full scale
Memory	Automatic; 16 data sets with time and date stamp
Operating Temperature	5° to 40°C
Power	4 alkaline AAA batteries; approximately 17 continuous hours or 5,000 tests
Resolution	0.01 Abs

Description	Mfr. No.	Cat. No.	Each
910 COD Colorimeter	250910Y	**15-177-705**	560.00

Turbidity

Thermo Scientific™ Orion™ AQUAfast™ AQ3010 Turbidity Meter

This simple, yet powerful turbidity meter offers impressive features

Results are easy to read and record from the large, bright LCD display in a variety of work environments.

- Ergonomic IP67 turbidity meter for lab or field use
- Uses Nephelometric principle with 90° detection
- In many locations a separate light cap or shield is not needed
- Meets ISO 7027 and offers consistent light source for greater accuracy
- No mixing or diluting with EPA-approved polymer bead primary standards for faster calibration

AQ3010

ORDERING INFORMATION:
Replacement products include: Parts Set AC301S, Silicone Oil and Cloth AC3SIL and Vial AC3V25. Other accessories include Cleaning Brush AC3CBR and Formazin Turbidity Standard (4000 NTU, 475mL) AC45FZ.

CERTIFICATIONS:
CE, TUV 3-in-1 for CSA-US, FCC part 15

Description	Mfr. No.	Cat. No.	Each
Turbidity Meter Kit	AQ3010	**13-644-504**	924.77

Specifications	
Display	LCD
Keys	Power, Cal, Scroll Up, Scroll Down, Read/Enter
Automatic Range Selections and Resolution	0.01 to 19.99 NTU with 0.01 NTU resolution, 20.0 to 99.9 NTU with 0.1 NTU resolution, 100-1000 NTU with 1 NTU resolution
Precision	±2% of reading ±1 LSD for 0-500 NTU, ±3% of reading ±1 LSD for 501-1000 NTU
Response Time	<6 seconds
Sample Requirement	10mL
Included Calibration Standards	0.02, 20.0, 100 and 800 NTU
Sample Vials	25mm diameter with indexing mark
Light Source	IR LED for ISO 7027 Turbidity measurement
Power	4 × AAA >3000 tests and (4 × AAA Lithium >12000 tests)
Battery Conservation Feature	Auto shutoff after 20 minutes of inactivity
Ambient Operating Temperature	0° to 50°C (0 to 90% Non-Condensing Relative Humidity at 30°C)
Self Diagnostics	Yes, with troubleshooting error codes
Waterproof Rating	IP67

Lovibond™ TB200 Portable Turbidimeter

For fast and easy turbidity measurement in both the field or in the laboratory

Ideal for regulatory monitoring, process control or field use.

- Simple five-key operation
- Large easy-to-read LCD screen
- Easy calibration using supplied turbidity standards
- Auto-ranging features selects the proper turbidity range for your sample
- Power efficient microcircuit design yields 5000 tests on four AA alkaline batteries with an estimated 7-10 year bulb life
- Sample size: 10-15mL

INCLUDES: Two sample cells, batteries, calibration set, operator's manual, carrying case and lens cloth

REQUIRES: Four AA alkaline batteries

WARRANTY: Two years from date of shipment

COMPLIANCE: Meets USEPA Standard 180.1 compliance for turbidity measurement

CERTIFICATIONS:
CE certified

09-053-300

Specifications	
Range	0.01 to 1100 NTU
Accuracy	± 2% of reading or 0.01 NTU (0-500 NTU) ± 3% of reading (500-100 NTU)
Resolution	0.01NTU below 100.0 NTU 0.1 NTU for 100.0-999.9NTU 1.0 NTU for 1000-1100 NTU
Dimensions	8.25 × 3.75 × 1.75" (210 × 95 × 45mm)

Description	Mfr. No.	Cat. No.	Each
TB200 Portable Turbidimeter	TB200-10	**09-053-300**	1023.00
Sample Cells, 3/Pk.	TB200-50	**09-053-301**	51.10
Calibration Set (0.02, 10.0 and 1000 NTU)	TB200-60	**09-053-302**	255.50

Lovibond™ Powder Pack Reagents

Premeasured unit dose reagents for water quality testing

- Offer the same high quality standards as tablet reagents
- Chemical properties are suitable for use with Lovibond and Hach™ colorimeters, spectrophotometers and test kits

APPLICATIONS:
Municipal Drinking Water and Wastewater Testing; Industrial Wastewater and Process Control Testing; Environmental Water Testing

COMPLIANCE:
Iron-Ferro reagent is US EPA accepted

09-053 Series

Description	Range	Sample Size	Qty.	Mfr. No.	Cat. No.	Each
Aluminum						
ECR Powder Pack	0-0.22mg/L	0.67 oz. (20mL)	100 tests	RP162-0	**09-053-248**	64.50
ECR Masking Reagent Solution	0-0.22mg/L	0.67 oz. (20mL)	25mL	L531625	**09-053-212**	12.86
Hexamethylenetetramine Powder Pack	0-0.22mg/L	0.67 oz. (20mL)	100 tests	RP165-0	**09-053-249**	62.50
Copper						
Copper Reagent Powder Pack	0-5.0mg/L	0.33 oz. (10mL)	100 Tests	RP030-0	**09-053-226**	42.27
Iron						
Iron TPTZ Powder Pack	0-1.8mg/L	0.33 oz. (10mL)	100 tests	RP055-0	**09-053-227**	27.20
Iron Ferro	0-3.0mg/L	0.33 oz. (10mL)	1000 Tests	RP056-3	**15-398-521**	194.70
Iron Ferro Reagent Powder Pack	0-3.0mg/L	0.33 oz. (10mL)	100 Tests	RP056-0	**09-053-228**	22.51
Manganese						
Alkaline-Cyanide Solution	0-0.7mg/L	0.33 oz. (10mL)	50mL	L530620	**09-053-207**	16.97
Ascorbic Acid Powder Pack	0-0.7mg/L	0.33 oz. (10mL)	100 tests	RP110-0	**09-053-240**	21.95
Manganese LR Powder Pack	0-0.7mg/L	0.33 oz. (10mL)	50 tests	RS5090	**09-053-258**	43.80
Manganese Citrate Buffer Powder Pack	0-0.7mg/L	0.33 oz. (10mL)	100 tests	RP065-0	**09-053-230**	38.45
0.1% PAN Indicator Solution, 50mL	0-0.70mg/L	0.33 oz. (10mL)	50mL	L530630	**09-053-208**	15.60
Sodium Periodate Powder Pack	0-0.7mg/L	0.33 oz. (10mL)	100 tests	RP066-0	**09-053-231**	25.00
Molybdate						
Molybdate HR2	0-35mg/L	0.33 oz. (10mL)	100 tests	RP076-0	**09-053-233**	27.20
Molybdate HR3	0-35mg/L	0.33 oz. (10mL)	100 tests	RP077-0	**09-053-234**	32.02
Nitrate						
Nitrate Tube Test Reagent Set, Nitrate-Nitrogen)	0 to 30mg/L	----	25 tests	RS5580	**09-053-267**	70.01
Nitra × Reagent B Powder Pack	0 to 3mg/L	----	Pack of 50	RP059-0	**09-053-229**	27.70
Nitrite LR						
Nitrite 3 Powder Pack, 10mL	0-0.3mg/L	0.33 oz. (10mL)	100 Tests	RP098-0	**09-053-239**	34.65
Nitrite 3 Powder Pack, 25mL	0-0.3mg/L	0.84 oz. (25mL)	Pack of 100	RP097-0	**09-053-238**	40.65
Nitrogen Ammonia						
Ammonia Cyanurate Powder Pack, 10mL	0-0.8mg/L	0.33 oz. (10mL)	Pack of 100	RP137-0	**09-053-243**	44.70
Ammonia Nitrogen Tube Test Reagent Set, 10mL	0-0.8mg/L	0.33 oz. (10mL)	100 tests	RS5500	**09-053-264**	109.40
Ammonia Salicylate Powder Pack, 10mL	0-0.8mg/L	0.33 oz. (10mL)	Pack of 100	RP138-0	**09-053-244**	67.00
Nitrogen Ammonia LR						
Ammonia Low Range Tube Test Reagent Set	0-2.5mg/L	0.16 oz. (5mL)	50 tests	RS5600	**09-053-268**	93.30
Ammonia Cyanurate Powder Pack, 5mL	0-2.5mg/L	0.16 oz. (5mL)	Pack of 50	RP115-0	**09-053-241**	19.57
Ammonia Salicylate Powder Pack, 5mL	0-2.5mg/L	0.16 oz. (5mL)	Pack of 50	RP116-0	**09-053-242**	33.55
Nitrogen Ammonia HR						
Ammonia High Range Tube Test Reagent Set	0-50mg/L	0.16 oz. (5mL)	25 tests	RS5650	**09-054-103**	83.12
Nitrogen Total LR						
Total Nitrogen Low Range Reagent Set	0-25mg/L	----	25 Tests	RS5550	**09-053-265**	119.65
Nitrogen Total HR						
Total Nitrogen High Range Reagent Set	0-150mg/L	----	25 Tests	RS5560	**09-053-266**	125.43
Oxygen Scavenger						
DEHA Powder Pack Reagent Set	20-500µg	0.33 oz. (10mL)	100 tests	RS6000	**09-053-271**	93.91
Oxyscav Reagent	0.33 oz. (10mL)	----	Pack of 1000	RP140-0	**09-534-465**	36.82

Contd. on the next page.

Lovibond™ Powder Pack Reagents, contd.

Description	Range	Sample Size	Qty.	Mfr. No.	Cat. No.	Each
Phosphorus Reactive						
Reactive Phosphorus Tube Test Reagent Set, 10mL	0.06-5.0mg/L	0.33 oz. (10mL)	50 Tests	RS5200	**09-053-260**	42.45
Phosphate 3 Powder Pack, 10mL	0.06-5.0mg/L	0.33 oz. (10mL)	Pack of 50	RP155-1	**09-053-245**	16.52
Phosphorus Total						
Total Phosphate Reagent Set	0.02-1.1mg/L P/0.06-3.5mg/L PO_4	----	Ea.	RS5210	**09-054-102**	58.40
Potassium Persulfate Powder	0.02-1.1mg/L P/0.06-3.5mg/L PO_4	----	Pack of 50	RP156-0	**09-053-211**	16.32
Phosphate Acid Hydrolyzable						
Total and Acid Hydrolyzable Phosphorus Reagent Set	0.02-1.1mg/L P/0.06-5.0mg/L PO_4	----	50 tests	RS5250	**09-053-261**	59.71
Silica LR						
Silica Low Range Reagent Set, 10mL	0-1.6mg/L	0.33 oz. (10mL)	100 tests	RS5690	**09-054-104**	61.30
Amino Acid F Powder Pack, 10mL	0-1.6mg/L	0.33 oz. (10mL)	Pack of 100	RP160-0	**09-053-247**	19.71
Silica Citric Acid Powder Pack, 10mL	0-1.6mg/L	0.33 oz. (10mL)	Pack of 100	RP171-0	**09-054-100**	20.75
Molybdate 3 Reagent Solution, 50mL	0-1.6mg/L	1.69 oz. (50mL)	50mL	L531730	**09-053-213**	15.74
Silica HR						
Silica High Range Reagent Set, 10mL	0-100mg/L	0.33 oz. (10mL)	100 Tests	RS5700	**09-053-269**	71.10
Silica High Range Acid Reagent Powder Pack, 10mL	0-100mg/L	0.33 oz. (10mL)	Pack of 100	RP170-0	**09-053-250**	26.79
Silica High Range Acid, 10mL	----	0.33 oz. (10mL)	Pack of 1000	RP170-3	**09-530-750**	209.60
Silica High Range Acid, 25mL	----	0.84 oz. (25mL)	Pack of 1000	RP193-3	**09-053-753**	274.60
Silica High Range Molybdate Powder Pack, 10mL	0-100mg/L	0.33 oz. (10mL)	Pack of 100	RP172-0	**09-053-251**	27.14
Silica High Range Molybdate Powder Pack, 25mL	0-200mg/L	0.84 oz. (25mL)	Pack of 100	RP195-0	**09-053-254**	26.70
Silica High Range Molybdate Powder Pack, 10mL	----	0.33 oz. (10mL)	Pack of 1000	RP172-3	**09-053-752**	199.90
Silica High Range Molybdate Powder Pack, 25mL	----	0.84 oz. (25mL	Pack of 1000	RP195-3	**09-053-755**	214.80
Silica UHR						
Silica Ultra High Range Reagent Set, 25mL	0-200mg/L	0.84 oz. (25mL)	100 tests	RS5900	**09-053-270**	92.30
Silica High Range Acid Reagent Powder Pack, 25mL	0-200mg/L	0.84 oz. (25mL)	Pack of 100	RP193-0	**09-053-252**	34.10
Silica Citric Acid Powder Pack, 25mL	0-200mg/L	0.84 oz. (25mL)	Pack of 100	RP194-0	**09-053-253**	22.50
Silica HR Citric Acid, 10mL	----	0.33 oz. (10mL)	Pack of 1000	RP171-3	**09-053-751**	157.10
Silica HR Citric Acid, 25mL	----	0.84 oz. (25mL)	Pack of 1000	RP194-3	**09-053-754**	208.50
Sulfate						
Sulfate 4 Reagent Powder Pack, 10mL	0-70mg/L	0.33 oz. (10mL)	100 Tests	RP216-0	**09-053-256**	30.55
Sulfate 4 Reagent Powder Pack, 25mL	0-70mg/L	0.84 oz. (25mL)	Pack of 100	RP215-0	**09-053-255**	31.90

LaMotte™ 2020we and 2020wi Turbidity Meters

Waterproof IP67

Compact handheld water analysis instrument with microprocessor-driven optical system and unique optics configuration. Available in EPA- or ISO-complaint versions.

- Provides precise, sensitive and dependable measurements
- Reads low levels for turbidity (0.05 NTU) and expands to higher ranges: 0-4000
- Response time: <5 seconds
- Features seven languages, data logging (4000 points), signal averaging, USB port
- Uses 3.7V lithium rechargeable battery and wall plug, with auto shut-off

INCLUDES:
Supplied with 0,1 and 10 NTU standards; sample bottle; four vials; USB cable and wall plug all in a waterproof carrying case.

CERTIFICATIONS:
CE marked

03-920-550

Description	Mfr. No.	Cat. No.	Each
2020 we	1970-EPA	**03-920-550**	1049.45
2020 wi	1970-ISO	**03-920-551**	1049.15

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

LaMotte™ LTC3000w Series Laboratory Turbidity, Chlorine and Color Meter

Bench-top turbidimeter for turbidity, chlorine and color measurement

- Can store 500 data points which can be downloaded to a computer
- Allows 7 different languages (English, French, Spanish, Japanese, Italian, Portuguese, Chinese)
- Wide range and high accuracy
- Signal averaging: Disabled, 2, 5, 10
- Power: USB computer cable or wall adapter or Lithium ion rechargeable battery, 3.7V, 2.5 × 0.75", 1.7 oz.
- Auto shut-off: Disabled, 5, 10, 30 minutes
- Response time: P2 seconds

ORDERING INFORMATION:
W × D × H: 8.75 × 7.75 × 3" (22.2 × 19.7 × 7.6cm)

INCLUDES:
0, 1 and 10 NTU standards, sample bottle, 6 sample tubes, 100 each free and total chlorine DPD tablets and USB cable and computer/ wall adapter

Certification	Mfr. No.	Cat. No.	Each
ISO certified	1972-ISO	**03-920-562**	1400.00

Specifications	
Turbidity	
Unit of Measure	NTU, FNU, AU, FAU, ASBC, EBC
Range†	0-4000, 0-10,500 ASBC, 0-150 EBC
Resolution†	0.01 NTU/FNU 0.00-10.99 0.1 NTU/FNU 11.00-109.9 1 NTU/FNU 110-4000
Accuracy†	From 0-2.5 NTU the accuracy is ±0.05 NTU. From 2.5-100 NTU the accuracy is ±2%. Above 100 NTU the accuracy is ±3%
Range Selection	Automatic
Detection Limit	0.05 NTU/FNU
Reproducibility	0.02 NTU/FNU, or 1%
Light Source	Tungsten (EPA), complies with EPA 180.1 860mm LED (ISO), compies with ISO 7027
Chlorine	
Range	0-10 ppm, Free and Total Chlorine
Resolution	0.00-5.00 ppm Range: 0.01ppm 5.0-10.0 ppm Range: 0.1ppm
Accuracy	Tablet: 0-1.0 ppm Range: ±0.03ppm 1.0-3.0 ppm Range: ±0.06ppm 3.0-6.0 ppm Range: ±0.3ppm 6.0-10.0 ppm Range: ±2.5ppm Liquid: 0-0.5 ppm Range: ±0.03ppm 0.6-3.0 ppm Range: ±0.06ppm 3.0-6.0 ppm Range: ±0.4ppm 6.0-10.0 ppm Range: ±1.5ppm
Detection Limit	0.03ppm
Response Time	<2 seconds
Light Source	525 nm LED, complies with EPA 330.5
Color	
Range	0-1000 cu
Detection Limit	20 cu
Accuracy	±15 cu
Light Source	428nm LED

†Over 600 NTU/FNU units expressed as AU/FAU

Water Quality

Reagents

EMD Millpore™ MQuant™ Test Strips

Immediate results through onsite analysis

- Small and easy to handle
- Flexible and universal application
- PET film and low reagent content
- Easily disposable

INCLUDES:
Tube containing 100 strips for applicable tests

NOTES:
Reclose tube immediately after use.

For Testing	Range	Method	Applications	Cat. No.	Each
Ascorbic Acid	50 to 2000mg/L	Phosphormolybdenum Blue	Food / water analysis	**M110230001**	81.20
Carbonate Hardness	5 to 30°e	Mixed-indicator	Carbonate hardness in water (Not for salt water)	**M1106480001**	91.00
Chloride	500 to 3000mg/L	Silver Chromate reaction	Natural water testing	**M1100790001**	78.90
Chlorine	0.5 to 20mg/L	Redox reaction	Water analysis	**M1179250001**	115.30
Cobalt	10 to 1000mg/L	Rhodanide	Wastewater testing, electroplating, assaying and refining ores	**M1100020001**	85.10
Copper	10 to 300mg/L	2,2'-Cuproin reaction	Wastewater, electroplating, copper etching, determining copper in aqueous media and metal surfaces	**M1100030001**	76.92
Iron	3 to 500mg/L	2,2'-Bypridine reaction	Identifying ferrous / nonferrous metals	**M1100040001**	85.70
Nickel	10 to 500mg/L	Diacetyldioxime	Wastewater, electroplating, textile printing, identifying nickelous metals	**M1100060001**	80.90
Nitrate	10 to 500mg/L	Modified Griess reaction	Food / water analysis	**M1100200001**	85.60
Nitrite	0.1 to 3g/L	Griess reaction	Food / water analysis	**M1100220001**	85.20
Nitrite	2 to 80mg/L	Griess reaction	Food / water analysis	**M1100070001**	85.70
Peracetic Acid	5 to 50mg/L	Redox reaction	Food / water analysis	**M1100840001**	86.20
Peracetic Acid	100 to 500mg/L	Redox reaction	Food / water analysis	**M1100010001**	99.80
Peroxide	0.5 to 25mg/L	Enzymatic reaction	Food / water analysis	**M1100110001**	85.20
Peroxide	1 to 100mg/L	Enzymatic reaction	Food / water analysis	**M1100810001**	91.30
Peroxide	100 to 1000mg/L	Enzymatic reaction	Food / water analysis	**M1103370001**	78.38
Sulphate	200 to 1600mg/L	Ba-thorin reaction	Food / water analysis	**M1100190001**	92.00
Sulfite	10 to 400mg/L	Nitroprusside/Zn-hexacyanoferrate reaction	Food / water analysis	**M1100130001**	85.10
Total Hardness	4 to 26°e	EDTA reaction	Analytical Quality Assurance Standard for Total Hardness	**M1100250001**	76.92
Total Hardness	6 to 31°e	EDTA reaction	Analytical Quality Assurance Standard for Total Hardness	**M1100460001**	75.70

Lovibond™ Low Range Molybdate Reagent Set

Used with SC450 Molybdate and MD600 Multi-Parameter Colorimeters, SP600 spectrophotometer

- Pre-measured
- Beveled edge for easy dispense and pour
- Easy-open notch

INCLUDES: Power Pack™ Molybdenum 1 LR Reagent, 20mL sample, Molybdenum 2 LR Reagent, 50mL

Description	Mfr. No.	Cat. No.	Each
Molybdenum 1 LR Reagent solution	RP081-0	**09-534-461**	26.53
Molybdenum 2 LR Solution	L530820	**09-534-462**	28.96
Low Range Molybdate Reagent Set	RS5450	**09-534-460**	55.20

Lovibond™ Phosphonate Reagent Set

Used with MD600 Multi-Parameter Colorimeter and SP600 Spectrophotometer

- Pre-measured
- Easy-open notch
- Beveled edge for easy dispense and pour

INCLUDES: Phosphate 3 Reagent, 10ml sample, 100 pack and Potassium Persulfate Reagent, 10ml sample, 50 pack

Description	Mfr. No.	Cat. No.	Each
Phosphate 3 Reagent	RP155-3	**09-534-467**	234.80
Phosphonate Reagent Set	RS5220	**09-534-468**	71.93

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Test Kits

Lovibond™ Aqua Comparator Test Kits

Accurate test kits for routine water analysis

- Easy to use: add reagent to sample cell, rotate disc until color matches sample and read concentration value
- Kits contain carrying case, comparator, color disc, sample cells, instructions and enough reagents for 100 tests (except ammonia, 50 tests)
- Color discs and reagents for these and other parameters available separately

Aqua Comparator Test Kit

Description	Range	Mfr. No.	Cat. No.	Each
Alkalinity	20-240mg/L	L147450	**09-053-127**	75.70
Aluminum	0-0.3mg/L	L147200	**09-053-100**	83.30
Ammonia, Quaternary	0-500mg/L	L414170	**09-053-131**	70.40
Ammonia	0-1.0mg/L	L147210	**09-053-101**	85.60
Calcium Hardness	10-500mg/L	L414160	**09-053-133**	55.60
Chlorine-free, Total	0.02-0.3mg/L	L147000	**09-053-103**	61.10
Chlorine-free, Total	0.1-2.0mg/L	L147040	**09-053-105**	61.00
Chlorine-free, Total	0-1.0mg/L	L147010	**09-053-104**	61.00
Chlorine-free, Total	0-4.0mg/L	L147020	**09-053-106**	58.90
Chlorine	10-300mg/L	L147030	**09-053-110**	75.40
Chlorine, Ultra HR	2-18% NaOCl	L147490	**09-053-298**	110.50
Chlorine-Free	0-3.5mg/L	L147050	**09-053-108**	59.30
Chlorine-Free/Total	0-3.5mg/L	L147052	**09-053-109**	61.90
Chlorine-Total	0-3.5mg/L	L147051	**09-053-107**	59.40
Copper-free, Total	0-1.0mg/L	L147440	**09-053-112**	79.00
Copper	0-5.0mg/L	L147430	**09-053-113**	67.60

Description	Range	Mfr. No.	Cat. No.	Each
Iron HR	0-10.0mg/L	L147320	**09-053-116**	63.90
Iron	0.05-1.0mg/L	L147220	**09-053-114**	60.60
Nitrate HR	10.0-100mg/L	L147400	**09-053-119**	82.20
Nitrate LR	0-0.5mg/L	L147300	**09-053-118**	76.80
Nitrite	0-0.3mg/L	L147301	**09-053-120**	84.40
pH	6.5-8.4	L147100	**09-053-121**	61.70
Phosphate	0-4.0mg/L	L147240	**09-053-123**	96.80
Phosphate	0-80.0mg/L	L147250	**09-053-124**	94.60
Silica	0-1.0mg/L	L147360	**09-053-125**	123.60
Silica	0-100.0mg/L	L147351	**09-053-126**	123.40
Total Hardness	1.0-10.0mg/L	L414260	**09-053-136**	55.70
Total Hardness	1.0-50.0mg/L	L414250	**09-053-135**	55.60
Total Hardness	5.0-500.0mg/L	L414240	**09-053-134**	55.60
Total Hardness	20-800.0mg/L	L414450	**09-053-137**	55.60

Lovibond™ Legionella Field Test Kit

Test is easy and fast — no reagents or interpretation of results required

Regular use increases confidence in your Legionella control procedures and reduce risk of outbreaks and litigation.

- Results in 25 minutes
- Most basic of the Legionella detection test kits
- Allows for immediate understanding and response to the water conditions
- Number of tests: 10
- Bacteria Detected: Legionella pneumophila serogroup 1
- Detection Method: Lateral flow immunochromatographic assay
- Lower Limit of Detection: approximately 105 CFU/L (100,000 CFU/mL)
- Test Volume: 100µL
- Sample Volume: 250mL
- Test Development Time: 25 min.
- Operator Time: <2 min.

STORAGE: Shelf Life: 18 Months from manufacture; stored at room temp. (<30°C) in original packaging

15-398-600

Description	Mfr. No.	Cat. No.	Each
Field Test Kit	L56B006001	**15-398-600**	680.00

Lovibond™ Legionella Test Kits

Ideal for a variety of industrial applications

- Results in 30-35 minutes
- Detects Legionella in a water sample
- Procedure utilizes hollow fiber filtration modules
- Pre-filled syringes contain required recovery buffer; no need to measure or dilute
- Allows for immediate understanding and response to the water system conditions
- Reduce risk of outbreaks and litigation
- Available as single test kit or set of five
- Bacteria Detected: Legionella pneumophila serogroup 1
- Detection Method: Lateral flow immunochromatographic assay
- Lower Limit of Detection: 100 CFU (0.1 CFL/mL)
- Suggested Sample Volume: 250mL filtered sample
- Test Volume: 100µL
- Operator Time: 5 -10 min.

15-398-601

STORAGE: Shelf Life: 18 Months from manufacture; stored at room temp. (>30°C) in original packaging

Description	Mfr. No.	Cat. No.	Each
Legionella Single Test Kit	L56B006601	**15-398-603**	95.00
Legionella Systems Test Kit (5 tests)	L56B006101	**15-398-601**	435.00

Lovibond™ Legionella Swab Test Kit

Find Legionella in their breeding ground

15-398-602

This kit can be used to pinpoint the contamination in a system or to demonstrate cleanliness of an area after a targeted cleaning.

- Results in just 25 minutes
- Highly selective test can detect Legionella even in samples with very high background flora
- Allows for immediate understanding and response to water system conditions
- Regular use will increase confidence in your Legionella control procedures and reduce risk of outbreaks and litigation
- Number of tests: 5
- Bacteria Detected: Legionella pneumophila serogroup 1
- Detection Method: Lateral flow immunochromatographic assay
- Lower Limit of Detection: up to 200 CFU per swabbed area
- Suggested Sample Area: 10cm^2
- Test Volume: 100µL
- Operator Time: 1-2 min.

STORAGE:
Shelf Life: 18 months from manufacture; stored at room temp. (<30°C) in original packaging

Description	Mfr. No.	Cat. No.	Each
Legionella Swab Test Kit	L56B006401	**15-398-602**	395.00

Lovibond™ Legionella Enterprise Test Kit

Combination of the Swab Test Kit and the Systems Test Kit

15-398-604

Ideal for first time users trying to determine which procedure best fits their processes, or for low volume users that require both swab and filtration type tests.

- Results in 25 minutes
- Allows for immediate understanding and response to the water conditions
- Regular use will increase confidence in your Legionella control procedures and reduce risk of outbreaks and litigation
- Bacteria Detected: Legionella pneumophila serogroup 1
- Detection Method: Lateral flow immunochromatographic assay
- Number of tests: 4 (2 swab, 2 filtration)
- Test Volume: 100µL
- Operator Time: 5 -10 min.

STORAGE:
Shelf Life: 18 Months from manufacture; stored at room temp. (<30°C) in original packaging

Description	Mfr. No.	Cat. No.	Each
Legionella Enterprise Test Kit	L56B006501	**15-398-604**	315.00

Thermo Scientific™ Orion™ AQUAfast™ COD165 Thermoreactor

Automatically detects the incoming wall voltage and frequency, so there are no switches for the user to set before powering

13-644-506

- Ideal for environmental and wastewater monitoring
- Temperature setting for 100°C, 120°C, 150°C, 160°C and 165°C
- Program for automatic shutoff with preset times of 30, 60, and 120 minutes or use continuous temperature mode for manual temperature control
- Automatic selection of voltage from 90 to 260V and frequency from 50/60Hz with appropriate power cable for US/Canada, EU, and China (included)

ORDERING INFORMATION:
Accessories include COD Test Kits (Range 0 to 150ppm, CODL00; Range 0 to 1500ppm, CODH00; Range 0 to 15,000ppm, CODHP0) and COD Standards (Range 1000ppm, CODS01; Range 10,000ppm, CODS10)

Specifications	
Samples	Up to 25 Digestion Tubes, 16mm diameter
Selectable Temperatures	100°C, 120°C, 150°C, 160°C or 165°C
Selectable Times	30 minutes, 60 minutes, 120 minutes or continuous
Safety Cover	Clear plastic, hinged to flip up for loading and unloading
Reaching Set Temperature or End of Timed Cycle	Acoustic signal
Thermoregulator	PID microprocessor
Over-temperature Protection	Yes
Precision	±0.2 % end of scale
Temperature Probe	Pt100 class A
Temperature Probe Calibration	Automatic by software
Heating Block Temperature Stability	±0.5°C
Heating Block Temperature Homogeneity	±0.5°C
Heating Block Temperature Precision	±1°C
Performance from 20°C to 150°C	12min.
Power Supply	100 to 220V 50/60Hz
Power	400w
Weight	3.6kg
Dimensions	6.1 × 3.7 × 10.82" (155 × 95 × 275mm)

Description	Mfr. No.	Cat. No.	Each
COD165 Thermo Reactor	COD165	**13-644-506**	1133.39

*Trademark. See Trademarks at www.fishersci.com Prices subject to change.

Lovibond™ ET 730 Portable Floc Tester

Flocculation Testers (also known as Jar Testers) are designed for a range of applications — such as testing the efficiency of flocculation or precipitation agents

Continuously variable stirring speed (lab versions only).

- Digital display of stirring rpm
- Timer function
- Illuminated back panel
- Height adjustment option for the stirring blades during operation
- Date and time
- Floc Testers are not supplied with beakers — please purchase from a laboratory products supplier.

15-398-556

INCLUDES: Power Supply with US, EU and UK and car adapter.
Instruction manual.

REQUIRES: 1000mL beakers, low form

Specifications	
Stirring Places	4
Stirring Speed Control	20/40/50/100/120 revolutions per minute
Timer	1-30 minutes or continuous
Weight	10.5 lb.
Dimensions (L × W × H)	10 × 12.5 × 10 in.
Memory	25 data sets with time and date (non-volatile)
Power Supply	115-240V 50-60Hz
Resolution	1 revolution

Description	Mfr. No.	Cat. No.	Each
Portable flocculation tester	L2419150	**15-398-556**	1889.00

Lovibond ET™ 740 & ET 750 - Laboratory Floc/Jar Tester

Flocculation Testers (also known as Jar Testers) are designed for a range of applications – such as testing the efficiency of flocculation or precipitation agents

Laboratory Floculation Testers

Continuously variable stirring speed (lab versions only).

- Digital display of stirring rpm
- Timer function
- Illuminated back panel
- Height adjustment option for the stirring blades during operation
- Date and time
- Floc Testers are not supplied with beakers

INCLUDES:
Power Supply with US, EU and UK adapter. Instruction Manual.

REQUIRES:
1,000 mL beakers, low form

Specifications		
Stirring Places	4	6
Stirring Speed Control	10 – 300 revolutions per minute	10 – 300 revolutions per minute
Resolution	1 revolution	1 revolution
Timer	1-999 minutes or 16.5 Hours	1-999 minutes or 16.5 Hours
Power Supply	115-230V 50-60 Hz	115-230V 50-60 Hz
Weight	26.8 lb.	37.5 lb.
Dimensions: (L × W × H)	25.5 × 13.5 10.25 in.	37 × 13.5 × 10.25 in.

Stirring Places	Mfr. No.	Cat. No.	Each
4	L2419155	**15-398-557**	2590.00
6	L2419160	**15-398-558**	2770.00

Wipers

Cleanroom

Contec™ Amplitude™ EcoCloth™ Cleanroom Wipers

For ISO Class 6 applications

- Made of strong and durable polyester/cellulose hydroentangled nonwoven fabric
- Economical, lightweight wiper ideal for wiping and absorbing spills in cleanroom environments; excellent for use in less critical applications
- Exceptionally absorbent in terms of weight-to-capacity ratio
- Low levels of particles and extractables
- Double packaged to preserve product integrity

19-120-823

ORDERING INFORMATION:
Basis weight: 54.2g/m^2.

Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of
6 × 6" (15.2 × 15.2cm)	AMEC0002	**19-130-5932**	300/26.95	20 Pk./462.00
9 × 9" (23 × 23cm)	AMEC0003	**19-120-822**	300/31.55	12 Pk./318.50
12 × 12" (30.5 × 30.5cm)	AMEC0004	**19-120-823**	150/42.95	14 Pk./505.50

Contec™ Amplitude™ Sigma™ Plus Cleanroom Wipers

For ISO Class 6-8 applications

Excellent for use in general cleaning and spill pickup.

- Polyester/cellulose nonwoven wiper specially treated to reduce particles and fibers
- Excellent durability and good cleanliness
- Maintain a high level of strength either wet or dry
- Highly sorbent

19-066-016

APPLICATIONS:
Ideal for applications where low particles and fiber counts are critical and sorbency is needed.

ORDERING INFORMATION:
Basis weight, 74g/m^2.

Size	Mfr. No.	Cat. No.	Pack of	Case of
9 × 9" (23 × 23cm)	C1E-99	**19-066-015**	300/53.90	12 Pk./549.00
12 × 12" (30.5 × 30.5cm)	C1E-1212	**19-066-016**	150/53.80	18 Pk./821.00

Contec™ Polynit™ Heatseal Wipes

For ISO Class 3 applications

- Constructed of 100% textured polyester, no-run interlock knit
- Nonsterile
- Ideal for general-purpose cleaning and product wipe-down in critical environments
- Nonabrasive, heat-sealed edge allows 100% utilization of wiper
- Chemical- and abrasion-resistant, with good solvent sorbency and extremely low particle and fiber counts
- Laundered and packaged in an ISO Class 4 cleanroom

19-033-768

ORDERING INFORMATION:
Available in custom sizes and shapes. Contact your Fisher Safety Customer Service Representative for details.

Size	Mfr. No.	Cat. No.	Pack of
4 × 4" (10 × 10cm)	PNHS-44	**19-038-562**	300/88.40
9 × 9" (23 × 23cm)	PNHS-99	**18-999-1299**	150/84.90
9 × 9" (23 × 23cm)	PNHS-99B/150	**19-047-513**	150/74.17
9 × 9" (23 × 23cm)	PNHS-99B	**19-033-768**	300/185.90

Contec™ Prosat™ Nonwoven Presaturated Wipers

For ISO Class 5 applications

Use for routine cleaning and wipe down of lab tools, instruments and other equipment

- Made of meltblown polypropylene or cellulose/polyester
- Effective and convenient for wipe-downs of process tools and other equipment
- Nonwoven wipers presaturated with solution of 70% isopropyl alcohol (IPA) and 30% deionized water (DIW) contain very low levels of sodium and other ions
- Eliminate the need to mix your own solutions, reducing worker exposure to hazardous chemicals

19-064-205

ORDERING INFORMATION:
Packaged in flat resealable pouches to preserve solvent saturation levels.

COMPLIANCE:
Meet SEMI specifications for metals and contaminants.

Size	Material	Mfr. No.	Cat. No.	Pack of	Case of
8 × 8" (20.3 × 20.3cm)	Polypropylene	PS-850	**19-150-0704**	50/18.74	50 Pk./744.34
9 × 11" (23 × 28cm)	Polypropylene	PS-911	**19-064-205**	30/17.09	50 Pk./712.81
9 × 11" (23 × 28cm)	Polyester/ Cellulose	PSC20006	**19-150-0707**	----	28 Pk./790.50

Contec™ Anticon™ Gold Heavyweight™ Cleanroom Wipes

100% polyester double-knit interlock wipe with sealed edges

Contec's Anticon Gold HeavyWeight wipes are made from 100% continuous filament polyester with a double-knit no-run interlock construction.

19-084-301

- Low sub-micron particles and fiber counts
- Sealed edges to reduce particle and fiber generation
- High sorptive capacity and fast adsorption rate for superior spill control
- High tensile strength to eliminate tearing and snagging in tough cleaning applications
- Manufactured from 100% continuous filament polyester and specially processed for superior cleanliness and sorbency
- Cleanroom laundered
- 12 × 12" (30 × 30cm)

COMPLIANCE:
Tested in accordance with the IEST Recommend Practices for the Evaluation of Wiping Materials for Critical Environments

Size	Mfr. No.	Cat. No.	Case of 400
12 × 12" (30.5 × 30.5cm)	492224-794	**19-084-301**	284.61

Foamtec™ MiraWIPE™ Wipers

To remove trace residues from Vacuum Chambers and disinfectant residues from Medical Device and Pharmaceutical cleanrooms

MiraWIPE™ features a nonsymmetrical micro fiber structure allows it to scrub microbial bio-films and sporicidal residues making it suitable for disinfection procedures

19-042-470

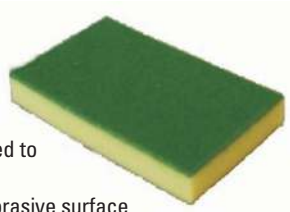
- Made of continuous filament micro denier, super soft polyester/nylon textile
- High absorbency and contamination pickup
- Abrasion resistant, no-run, no-stretch fabric to minimize In-Use Particles from the face of the wiper
- Available in configurations to meet Class 1-1000 applications

Description	Mfr. No.	Cat. No.	Price
Class 10, Wide Seal, Flat Pack, 9 × 9"	HT5790S	**19-042-470**	Pk.of 150/231.27
Large Surface Starter Kit	HT4500-SSC3	**19-304-555**	Ea./1127.00
Small Surface Starter Kit	HT4500-SSC2	**19-304-556**	Ea./841.00
Starter Kit	HT4500-SSC1	**19-304-557**	Ea./766.50

Foamtec™ ScrubCLEAN™ Abrasive Sponges

For cleaning hardened residues off scratch-sensitive tools and components

For components such as CMP polishers, shower heads, heater surfaces, metal/polyester mesh masks, sealing surfaces, plastic and glass surfaces



19-304-736

Made of plastic particles that are adhered to sponge with polyurethane polymer

- Minimizes particle generation from abrasive surface
- Low in endo-toxins, metals, salts and sodium
- Autoclavable

Description	Mfr. No.	Cat. No.	Pack of 2	Case of 50 Pk.
Light duty scrubber	FS206	**19-304-736**	34.20	1481.00
Heavy duty scrubber	FS208	**19-304-737**	34.20	1481.00

Kimberly-Clark Professional™ KIMTECH PURE™ W4 Wipers

For ISO Class 4 and higher applications

06-666-12

- Made of 100% polypropylene that resists acids, bases and solvents
- Thermally bonded — no glues or binders
- Straight, clean, knife-cut edges minimize lint
- Available dry, presaturated or sterile presaturated

ORDERING INFORMATION:
Dry wipers flat packed and double bagged with a case liner.

Size (W × L)	Mfr. No.	Cat. No.	Pack of 100	Case of
Dry				
12 × 12" (30.5 × 30.5cm)	33330	**06-666-12**	60.29	5 Pk./250.00
9 × 9" (23 × 23cm)	33390	**19-130-1641**	----	500/157.00
Presaturated				
9 × 11" (23 × 28cm)	06070	**19-130-1574**	----	400/196.00
Sterile, Presaturated				
9 × 11" (23 × 28cm)	76490	**19-150-0300**	----	400/239.50

ON THE WEB...

Keep your wipers readily available. Fisher Scientific carries a selection of wiper dispensers to keep wipers on the benchtop and to maintain cleanliness.

19-034-276

Visit www.fishersci.com and search for Wiper Dispensers

Micronova™ Gel Stainless-Steel Cleaner

Advanced no-drip technology eliminate streaks and drips when applied to stainless, metal and other hard surfaces

Clings and glides over most surfaces with minimum effort on contact

- Apply into seams and crevices, when dealing with rust, oxidation and residue build-up to pre-treat before wiping
- Non-atomized — will not affect air quality
- Phosphorus-free
- Biodegradable surfactants
- No VOCs; NSF A7 rating

19-305-710

Description	Mfr. No.	Cat. No.	Each	Case of 12
Gel Stainless-Steel Cleaner	SC1-P	**19-305-710**	23.30	218.00

ITW Texwipe™ TexVantage™ Cellulose/Polyester Wipers

Exclusive to Fisher Safety™

A general-purpose, nonwoven wiper for cleaning and spill control in critical environments. Combines the high absorption of natural cellulose and the cleanliness and strength of polyester.

18-366-218, -217 and -223

- Nonwoven, hydroentangled construction with bidirectional strength
- Available in standard or sterile packaging, expiration date marked on each package
- Chemically resistant to withstanding exposure to common cleaning and disinfecting
- Solvent-safe cleanroom packaging
- Statistical quality control
- Autoclavable

Sterile Features for 18-366-218

- Gamma irradiation to 10^{-6} Sterility Assurance Level, according to AAMI guidelines
- Lot-specific information on each shipment simplifies recordkeeping

APPLICATIONS: General-purpose wiping, applications with high absorbency and low extractables requirements, aqueous spills, cleaning precision components and lab apparatus

Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of
9 × 9" (23 × 23cm)	TX8939	**18-366-223**	300/32.65	20Pk./548.00
12 × 12" (31 × 31cm)	TX8932	**18-366-217**	150/34.30	20 Pk./548.00
12 × 12" (31 × 31cm)	TX8932S	**18-366-218**	----	500/314.50

LOOKING FOR MORE...?

See the Gloves section for a wide selection of gloves in all materials and styles.

ITW Texwipe™ All-Purpose Cotton Wipers

For ISO Class 7 applications

- Strong, highly absorbent 100% cotton wipers woven from high-quality, long-staple cotton fibers with tight-weave construction
- Twill-patterned surface on both sides of the wiper traps and removes surface contaminants from the cleaned surface
- Inherent antistatic characteristics at 40-60% relative humidity
- Exceptional absorbency, strength, chemical and heat resistance and uniform surface texture make these wipers suitable for a wide range of critical applications
- Bias cut at a 45° angle to ensure that edges will resist fraying and release of fibers
- Autoclavable

18-308 Series

ORDERING INFORMATION:
Basis weight: 180g/m²

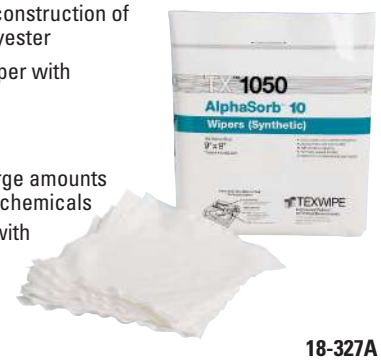
Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
4 × 4" (10 × 10cm)	TX 304	**18-308A**	1200/190.10	1601.00
6 × 6" (15 × 15cm)	TX 306	**18-308C**	600/174.70	1434.00
9 × 9" (23 × 23cm)	TX 309	**18-308D**	300/149.90	1358.00
12 × 12" (30.5 × 30.5cm)	TX 312	**18-308G**	150/161.30	1461.00

ITW Texwipe™ AlphaSorb™ 10 Sealed-Border Polyester Wipers

For ISO Class 3 and 4 applications

Double-knit, no-run interlock construction of 100% continuous-filament polyester

- Two-ply, sealed-border wiper with highest sorbency
- Ideal wiper for use in multiple environments
- Excellent for picking up large amounts of liquids and for applying chemicals
- Abrasion-resistant wiper with soft, flexible hand
- Lot-to-lot traceability



18-327A

ORDERING INFORMATION:
Available dry or sterile.
Basis weight: 185g/m².

Size (W × L)	Mfr. No.	Cat. No.	Pack of 100	Case of
Dry				
9 × 9" (23 × 23cm)	TX1050	**18-327A**	114.70	10 Pk./971.00
12 × 12" (30.5 × 30.5cm)	TX1052	**18-327B**	170.60	6 Pk./808.50
Dry, Sterile				
12 × 12 in. (30.5 × 30.5cm)	TX3215	**19-036-86**	----	500/1141.00

ITW Texwipe™ AlphaWipe™ Polyester Wipers

For ISO Class 5 and 6 applications

- Double-knit, no-run interlock construction of 100% continuous-filament polyester
- Heavyweight, all-purpose wiper for surface cleaning and spill control
- High sorptive capacity, good abrasion resistance and low releaseable particles
- Effective as a clean work surface and for packaging sensitive parts
- Lot-to-lot traceability

18-324, 18-322, 18-320

ORDERING INFORMATION:
Laundered and cleanroom packaged in solvent-safe Bag-Within-A-Bag™ cleanroom packaging. Basis weight: 163g/m².

Size	Mfr. No.	Cat. No.	Pack of	Case of
Stacked				
4 × 4" (10 × 10cm)	TX1004	**18-320**	300/111.90	20 Pk./1894.00
9 × 9" (23 × 23cm)	TX1009	**18-322**	150/75.70	10 Pk./637.50
12 × 12" (30.5 × 30.5cm)	TX1013	**18-324**	75/95.70	10 Pk./806.00
Bulk Packed				
9 × 9" (23 × 23cm)	TX1009B	**19-130-5610**	150/56.10	10 Pk./472.50
11 × 12" (28 × 30.5cm)	TX1003	**18-319**	250/184.30	6 Pk./991.00

ITW Texwipe™ Nylon MiracleWipe™ Wipers

For ISO Class 5 to 6 applications

- Double-knit nylon construction creates large surface area that grips and holds contamination, preventing its transfer
- Ultraclean, highly adsorbent wiper is static safe, abrasion safe and run resistant
- Lint-free — exhibit extremely low particle levels
- Cleaned and processed in an ISO Class 3 cleanroom environment in accordance with Fed. Spec. 209E

18-336B

ORDERING INFORMATION:
Basis weight: 170g/m².

Size	Mfr. No.	Cat. No.	Pack of	Case of
4 × 4" (10 × 10cm)	TX 4004	**18-336A**	600/206.50	8 Pk./1379.00
9 × 9" (23 × 23cm)	TX 4009	**18-336B**	150/157.70	8 Pk./1034.00
10 × 12" (25 × 30.5cm)	TX 4012	**18-336C**	200/329.50	4 Pk./1088.00

DID YOU KNOW...

Not finding what you need? You can call your Fisher Scientific Sales Specialist and they will work with you to identify the right product for your application.

ITW Texwipe™ Polysat™ Presaturated Polypropylene Wipers

For ISO Class 6 to 7 applications

- Constructed from a soft, 100% meltblown polypropylene substrate
- Presaturated with 70% isopropyl alcohol/30% deionized water solution
- Low particle generation and low levels of solvent extractables

19-033-016

ORDERING INFORMATION:
Flat packed in a convenient resealable FlexPack™.

Size	Mfr. No.	Cat. No.	Pack of 50	Case of 24 Pk.
9 × 11" (23 × 28cm)	TX1051	**19-033-016**	32.95	646.50

ITW Texwipe™ TechniCloth™ II Blended Wipers

For ISO Class 6 and 7 applications

- Made of a hydroentangled blend of 55% cellulose and 45% polyester and treated with ITW Texwipe proprietary ultralow particulate (ULP) finish
- Significantly reduces particulate generation
- ULP finish formulated to resist extraction in commonly used solvents

18-330 Series

ORDERING INFORMATION:
Basis weight: 68g/m².

Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of 10 Pk.
9 × 9" (23 × 23cm)	TX 1109	**18-330A**	300/42.80	359.00
12 × 12" (30.5 × 30.5cm)	TX 1112	**18-330C**	150/42.65	358.50
18 × 18" (46 × 46cm)	TX 1118	**18-330E**	75/47.00	367.00

ON THE WEB...

Be sure to keep hands clean while working. Micronova offers a touch-free dispensing system with no-hassle installation and easy change-out of bottles.

Visit www.fishersci.com and search for Touch-free Dispensers

ITW Texwipe™ Vertex™ Dry Wipers

For maximum abrasion resistance

- Made of 100% polyester
- Double-knit design
- Sealed laser edge
- Nonsterile
- Available in High Durability, High Sorption and the Microdenier Series
- Sorbency capacity: 350mL/m2

18-315-202

Series	L x W	Packaging	Mfr. No.	Cat. No.	Each
Sorbency Capacity: 350mL/m²					
High Durability	9 x 9" (23 x 23cm)	150/Bag	TX29	**18-315-201**	71.30
High Durability	12 x 12" (30 x 30cm)	100/Bag	TX22	**18-315-202**	84.90
Microdenier	9 x 9" (23 x 23cm)	100/Bag	TX59	**18-315-207**	61.59
Sorbency Capacity: 450mL/m²					
High Sorption	9 x 9" (23 x 23cm)	150/Bag	TX49	**18-315-203**	75.80
High Sorption	12 x 12" (30 x 30cm)	100/Bag	TX42	**18-315-204**	73.20
High Sorption, Pre-wetted with 70% USP-Grade IPA/30% DIW	9 x 9" (23 x 23cm)	75/Bag	TX49P	**18-315-205**	73.70
High Sorption, Pre-wetted with 70% USP-Grade IPA/30% DIW	12 x 12" (30 x 30cm)	50/Bag	TX42P	**18-315-206**	55.28

ITW Texwipe™ TechniCloth™ Nonwoven Wipers

For ISO Class 6 and 7 applications

- Economical all-purpose nonwoven wipers made from a blend of 55% cellulose and 45% polyester — combine the absorbency of natural fiber with the cleanliness and strength of synthetic fiber
- Hydroentanglement process uses jets of water to blend fibers, eliminating need for chemical binders
- Provide excellent bidirectional strength and very low solvent extractables levels
- Offer superior wet and dry strength, solvent-compatibility and acid resistance
- Will not scratch or abrade delicate precision components

18-315A

ORDERING INFORMATION: Available as dry wipers or in a CleanPak™ presaturated with 70% isopropyl alcohol. Basis weight: 67g/m².

Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of
Dry				
4 × 4" (10 × 10cm)	TX 604	**18-315A**	1200/46.70	10 Pk./391.50
6 × 6" (15 × 15cm)	TX 606	**18-315B**	600/46.70	10 Pk./399.50
9 × 9" (23 × 23cm)	TX 609	**18-315C**	300/29.55	10 Pk./251.30
12 × 12" (30.5 × 30.5cm)	TX 612	**18-315D**	150/30.85	10 Pk./259.50
CleanPak Presaturated				
6 × 8" (15 × 20cm)	TX1045	**19-033-523A**	100/47.80	12 Pk./480.00
9 × 11" (23 × 28cm)	TX1041	**19-034-216**	70/51.10	12 Pk./518.00
9 × 11" (23 × 28cm)	TX1065	**18-031-081**	50/36.68	24 Pk./771.14

ITW Texwipe™ TexTra™ and TexTra™ 10 Cleanroom Wipers

For ISO Class 3 to 6 cleanrooms

- Thick single-ply wipers provide the absorbency of two-ply wipers
- Tight-knit construction offers good abrasion resistance for rigorous wiping applications
- Low levels of releasable particles, ions and nonvolatile residue
- TexTra 10 wipers feature thermally sealed border to prevent particle and fiber release
- Sterile wipers gamma irradiated to a Sterility Assurance Level of 10-6 and double bagged in solvent-safe bags

Back row (left to right): 19-165-657, 19-130-5611, 19-168-470Front row: 19-166-635, 19-168-380, 19-168-381

ORDERING INFORMATION: Stacked packed.

Description	Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of
Nonsterile					
TexTra 10	9 × 9" (23 × 23cm)	TX2450	**19-168-470**	100/99.82	10 Pk./848.51
	12 × 12" (30.5 × 30.5cm)	TX2452	**19-165-657**	----	600/1128.00
Sterile					
TexTra 10	9 × 9" (23 × 23cm)	TX3224	**19-168-381**	5/126.40	5 Pk./535.00
	12 × 12" (30.5 × 30.5cm)	TX3225	**19-166-635**	----	500/863.00
TexTra	12 × 12" (30.5 × 30.5cm)	TX3220	**19-168-380**	5/168.50	5 Pk./713.50

ITW Texwipe™ PolySat™ Pre-Wetted Wipers

Ideal for cleaning sensitive surfaces

Convenient for cleaning sensitive surfaces in controlled environments. Incorporates soft, 100% melt-blown polypropylene substrate pre-wetted with a 0.2µm filtered, 70% isopropyl alcohol/30% deionized water solution.

18-366-231

- Constructed of durable melt-blown polypropylene
- USP-Grade IPA, filtered at 0.2 micron with low particle generation and low levels of solvent extractables
- 6 × 4" folded and 6 × 11" open; designed for small spaces and easy storage
- Dove-folded for easy, one-hand operation (from package to application)
- Packaged in a convenient reclosable/resealable bag

Description	Mfr. No.	Cat. No.	Pack of 50	Case of 24 Pk.
PolySat Prewetted Wipers	TX8723	**18-366-231**	10.48	245.00

DID YOU KNOW...

Fisher Scientific offers a complete line of spill control products for the laboratory and cleanroom environments. Visit www.fisherscientific and search for Cleanroom Spill Response

General Purpose

Fisherbrand® Cheesecloth Wipers

Reagent-grade quality

06-665-29, 06-665-28 (inset)

- 100% brilliant white, pure cotton construction will not scratch sensitive surfaces
- Have a high degree of cleanliness, softness, absorbency and strength
- Can be used to safely clean microscope and camera optical parts, as well as delicate glassware, syringes, pipets and pH electrodes
- Absorb six times their weight in liquids and are useful for mopping up solvents and aqueous solutions
- Inert to even harsh solvents; ideal as filtering material
- Grade 10 (mesh size)

ORDERING INFORMATION:
Each wipe is 18 × 36" (46 × 91cm). Sixty wipes per dispenser box (two boxes per pack). Box dimensions: 9½L × 9½W × 4½"H (24 × 24 × 11cm).

COMPLIANCE:
Meet USP and Federal Specification CCC-G-101c.

Description	Open W × L	Cat. No.	Pack of
Cheesecloth Wipers	18 × 36 in. (46 × 91cm)	**06-665-29**	120/108.60
Cheesecloth Miniwipe	12 × 12 in. (30.5 × 30.5cm)	**06-665-28**	200/43.70

Fisherbrand® Optik-Wipes™

Nonwoven cloth wipes premoistened with a unique formulation

15-077-63

- Cleanroom-grade cellulose and polyester blend cloth is soft and lint-free; won't scratch surfaces or fall apart like paper wipes
- Designed specifically for wiping goggles, lenses, eyeglasses, gauge windows, fume hood windows, optical parts and microscope/magnifiers
- Easily remove oil, grease and lint from either glass or plastics
- Reclosable container dispenses single wipes, eliminates contamination from dust or dirt

ORDERING INFORMATION:
Packaged 100 wipes per polyethylene canister.

Size	Cat. No.	Each
6 × 9" (15 × 23cm)	**15-077-63**	19.77

Kimberly-Clark™ Kimtech Science™ Kimwipes™ Delicate Task Wipers

Use for polishing glassware, cleaning instruments or other delicate tasks

06-666A

- Extra low-lint wipers made from 100% virgin wood fibers
- Soft, nonabrasive cellulose-fiber wipers won't scratch most delicate surfaces
- Absorb many times their own weight
- Handy one-at-a-time dispensing packs with special plastic guard to reduce airborne lint, keep contaminants out of box and reduce electrostatic discharge

Size (W × L)	Mfr. No.	Cat. No.	Pack of	Case of
1-Ply				
4.4 × 8.4 in. (11 × 21.3cm)	34120	**06-666**	----	8400/262.00
4.4 × 8.4 in. (11 × 21.3cm)	34155	**06-666A**	280/8.42	60 Pk./358.00
11.8 × 11.8 in. (30 × 30cm)	34133	**06-666-1A**	----	2940/179.00
14.7 × 16.6 in. (37.3 × 42.2cm)	34256	**06 666C**	140/21.35	15 Pk./249.00
2-Ply				
11.8 × 11.8 in. (30 × 30cm)	34705	**06-666-11C**	----	1785/212.00
14.7 × 16.6 in. (37.3 × 42.2cm)	34721	**06-666-11**	90/31.90	15 Pk./378.50
3-Ply				
11.8 × 11.8 in. (30 × 30cm)	34743	**06-666-11D**	119/28.55	15 Pk./344.00

ACCESSORIES

Fisherbrand® Acyrlic Holders

Extra weight for one-hand dispensing

06-666-51

- Clear holder mounts to wall or bench with two strips of double-sided tape or mounting screws (not included)
- Sized for small or large Kimwipes boxes

Size	For Box Size	Cat. No.	Each
Small	4.5 × 8.5" (11 × 22cm)	**06-666-50**	30.69
Large	15 × 17" (38 × 43cm)	**06-666-51**	48.56

Kimwipes™ Lens Cleaning Stations

Use anywhere glasses or safety lenses are worn

17-228B

- Handy one-at-a-time 4.50 × 8.50" (11 × 22cm) wipers won't scratch glass or plastic lenses when used wet
- Silicone-free, antistatic, antifog cleaning solution removes dirt quickly and easily
- Disposable, self-contained stations resist liquids and hug wall when used with 17-228C dispenser, sold separately on www.fishersci.com

INCLUDES:
Wipers and 16 oz. (473mL) of cleaner

Description	Mfr. No.	Cat. No.	Case of
Small (560/bx.)	34623	**19-171-153**	2240/131.00
Large (1120/bx.)	34644	**17-228B**	1120/59.96

Kimberly-Clark™ Surpass™ Facial Tissue

Signal™ feature alerts user when it's time to change the box

- Soft, smooth, high-quality, two-ply tissue
- Made from 80% recycled paper

06-666-69

ORDERING INFORMATION:
100 white tissues per box.

COMPLIANCE:
Meet EPA guidelines with a minimum of 10% post-consumer waste.

Size (W × L)	Mfr. No.	Cat. No.	Case of 30
8 × 8.3 in. (20 × 21cm)	21340	**06-666-69**	63.84

Kimberly-Clark™ Scott™ and Kleenex™ Folded Paper Towels

Offer excellent absorbency and hand-drying performance

- Special drying process produces a softer finished towel
- Reliable quality, softness and absorbency means fewer towels used for better economy
- Available in C-fold and multifold styles

19-120-476

Description	Size (W × L)	Quantity per Pack	Mfr. No.	Cat. No.	Case of
Kleenex C-Fold	10.13 × 13.15" (25.7 × 33.4cm)	150	01500	**06-666-114**	2400/139.40
Scott C-Fold	10.13 × 13.15" (25.7 × 33.4cm)	200	01510	**06-666-32B**	2400/88.31
Scott Multifold	9.2 × 9.4" (23.4 × 23.9cm)	250	01804	**19-120-476**	4000/89.90

QUALITY SAFETY PRODUCTS WHEN YOU NEED THEM

The Get It Program provides quick access to the most commonly used safety items – quality products from top suppliers – in stock, ready for delivery.

Kimberly Clark™ WypAll™ X60 Wipers

Fast absorption and outstanding tear resistance

Made from Hydroknit™, an advanced wiper material manufactured using jets of water to bond soft, absorbent paper to extra-strong, nonwoven fabric

15-235-61

- Reinforced for extra scrubbing and cleaning power
- No adhesives or binders — soft enough for face and hands

Packaging	Size	Mfr. No.	Cat. No.	Pack of	Case of
POP-UP™ box	9.1 × 16.8 in. (23.1 × 42.7cm)	34790-50	**15-235-79**	1260/166.00	----
BRAG™ box	12.5 × 16.8 in. (32 × 42.7cm)	34015	**19-130-1633**	180/27.75	----
Flat sheets	13.38 × 15.75 in. (34 × 40cm)	34900-50	**15-235-70**	900/219.00	----
Small roll	9.8 × 13.4 in. (25 × 34cm)	35411-50	**19-014-875**	12/242.00	----
	19.6 × 13.4 in.	35421-50	**19-014-876**	6/240.00	----
Quarter fold, carton pack	11 × 23 in. (28 × 60cm)	34770	**15-235-61**	100/56.20	9/424.00
	12.5 × 14.4 in. (32 × 36.6cm)	34865-50	**15-235-77**	912/231.50	----
Roll	12.5 × 13.4 in. (32 × 34cm)	34955-50	**19-130-1632**	1/132.30	----
Jumbo roll	12.5 × 13.4 in. (32 × 34cm)	34965	**19-130-3926**	1100/155.90	----

Kimberly-Clark™ Professional™ WYPALL™ L40 Recycled Wipers

Ideal for a range of light-duty maintenance, processing and janitorial wiping tasks

Made of 40% post-consumer recycled fiber

- DRC process provides high surface softness
- Reinforced grid provides strength for wet-surface wiping and cleaning
- Strong but soft enough for personal use
- White

18-892-188

L × W	Mfr. No.	Cat. No.	Each
11 × 13.4" (27.9cm × 34cm)	11806	**18-892-190**	118.95
12.5 × 13"(31.8 × 33cm)	11805	**18-892-189**	236.40
16.4 × 9.8" (41.7 × 24.9cm)	11804	**18-892-188**	211.15

Kimberly-Clark Professional™ WYPALL™ L30 Recycled Wipers

Ideal for a range of light-duty maintenance, processing and janitorial wiping tasks

Made of 40% post-consumer recycled fiber

- DRC process provides high surface softness
- Reinforced grid provides strength for wet-surface wiping and cleaning
- Strong but soft enough for personal use
- White

18-892-194

L × W	Mfr. No.	Cat. No.	Each
11 × 13.4" (27.9cm × 34cm)	11803	**18-892-196**	77.66
12.5 × 13" (31.8 × 33cm)	11802	**18-892-195**	93.52
16.4 × 9.8" (41.7 × 24.9cm)	11801	**18-892-194**	153.16

Fisherbrand® Delicate Task Wipers

Feature a mix of pure virgin fiber and cellulose tissue-based microfiber for superior cleaning

07-301-001

- Made with 40% microfiber, 60% virgin fiber.
- Gentle - Very gentle on surfaces, especially when used wet
- Low Lint - Tightly integrated "micro" fibers result in less fiber loss for extremely low lint, especially when used wet
- Wipe Clean - Microfiber features surface area and capillary action to very effectively clean surface residue (dirt, dust, liquid) in less time
- Strong - Intertwined "micro" fibers create high tensile strength to hold up extremely well in use, even when wet
- Absorbent - Microfiber capillary action results in superior absorption rate

Premium Plus

Size	L × W	Cat. No.	Pack of	Case of
Small	4.5 × 7.9" (11.43 × 20.06cm)	**07-301-002**	280/7.35	30/325.50
Large	15 × 16.7" (38.1 × 42.4cm)	**07-301-001**	140/31.65	12/298.00

Premium

100% virgin fiber with superior wet and dry strength

- Gentle - Very gentle on surfaces, especially when wet
- Low Lint - Very low lint, especially when used wet
- Strong -Hold up extremely well in use, even when used wet
- Absorbent - Comes in multiple plies for added absorption capacity to clean larger spills

Size	L × W	Cat. No.	Pack of	Case of
1-ply				
Small	4.5 × 7.9" (11.43 × 20.06cm)	**07-301-005**	280/4.59	60/260.50
Large	15 × 16.7" (38.1 × 42.4cm)	**07-301-004**	140/12.83	15/167.10
3-ply				
Large	15 × 16.7" (38.1 × 42.4cm)	**07-301-003**	70/19.68	15/254.50

Recycled

Made with 100% recycled fiber

- Gentle — Not preferred for very delicate surfaces
- Low lint — Especially when used wet
- Strong — Hold up in use
- Absorbent — Supplied in multiple plies for added absorption capacity to clean larger spills

Size	L × W	Cat. No.	Pack of	Case of
1-ply				
Small	4.5 × 7.9" (11.43 × 20.06cm)	**07-301-008**	280/4.15	60/176.20
Large	15 × 16.7" (38.1 × 42.4cm)	**07-301-007**	140/6.54	20/129.00
3-ply				
Large	15 × 16.7" (38.1 × 42.4cm)	**07-301-006**	70/20.75	20/280.00

Disinfectant

Fisherbrand® Premoistened Wipes

Ideal for cleaning or wiping optical parts, glassware, electrodes, cuvettes and microscopes

- Nonwoven cloth wipes available dry or premoistened with 100% pure deionized water or a blend of pure reagent-grade 70% isopropyl alcohol and 30% deionized water
- Cellulose and polyester blend cloth is soft and lint-free; will not scratch surfaces or fall apart like paper wipes
- Reclosable container dispenses single wipes, eliminates contamination from dust and dirt

06-665-24 and 06-665-23

ORDERING INFORMATION:
Packed 100 wipes per polyethylene canister

Premoistened with	Size (W × L)	Cat. No.	Each
Deionized Water	6 × 9" (15 × 23cm)	**06-665-23**	18.73
Deionized Water and Alcohol	6 × 9" (15 × 23cm)	**06-665-24**	29.92
Dry	6 × 9" (15 × 23cm)	**06-664-14**	15.99

Fisherbrand® BloodBloc™ Biohazard Wipes

Prevent leakage of fluids and chemicals to hands, gloves and work surfaces

- Soft, white absorbent wipe with bright-orange polyethylene backing is impermeable to blood, body fluids and strong solvents including xylene and xylene substitutes, acetones, ketones, alcohols and formalin
- Nonwoven cellulose captures and retains fluid; nonlinting for use with delicate instrumentation such as blood counters
- Flexible backing prevents soak-through of pathogens and chemicals to help minimize cross-contamination
- Can also be used as mats and liners
- One-time use only

06-670-51

Size (W × L)	Cat. No.	Pack of	Case of
Standard Absorbency			
3 × 3" (8 × 8cm)	**06-670-1**	250/28.27	8 Pk./193.28
4 × 4" (10 × 10cm)	**06-670-35**	250/33.50	8 Pk./222.50
16 × 1200" (41 × 3050cm)†	**06-670-55**	1/144.30	2 Pk./252.00
Heavy Absorbency			
3 × 3" (8 × 8cm)	**06-670-49**	200/22.45	10 Pk./186.00
4 × 4" (10 × 10cm)	**06-670-50**	200/25.85	10 Pk./215.00
8 × 9" (20 × 23cm)	**06-670-51**	50/35.11	8 Pk./240.04
11 × 16" (28 × 41cm)	**06-670-52**	----	200/196.30
16 × 16" (41 × 41cm)	**06-670-53**	----	125/172.40
16 × 1200" (41 × 3050cm)†	**06-670-54**	1/142.03	2 Pk./258.21
Super Absorbency			
3 × 3" (8 × 8cm)	**06-670-36**	200/25.26	10 Pk./215.88
4 × 4" (10 × 10cm)	**06-670-5**	200/27.70	10 Pk./230.00
8 × 9" (20 × 23cm)	**06-670-15**	50/32.63	8 Pk./223.08
14 × 16" (36 × 41cm)	**06-670-40**	----	100/127.90
16 × 22" (41 × 56cm)	**06-670-38**	----	100/183.20
16 × 1200" (41 × 3050cm roll)†	**06-670-48**	1/177.47	2 Pk./313.27

†Roll

Current Technologies HYPE-WIPE™ and Mini HYPE-WIPE™ Bleach Towelettes

EPA-approved to kill Clostridium difficile spores in four minutes

14-412-56

Individually packaged, single-use towelettes saturated with 0.525% bleach (a 1:10 dilution). These bleach wipes do not dry out like other wipes will when their canister lid is left open.

- Registered as a hospital-grade cleaner/disinfectant with the U.S. EPA
- Stabilized for 12-month shelf life with expiration date stamped on each foil pouch and outer box
- Full size (6" × 12" towel folded inside a pocket-sized pouch) can wipe down 40 sq. ft. benchtop
- Mini (3"x3"towel) is for cleaning glucometers, coagulation devices or small spills
- For use on hard, non-porous surfaces including plastics, Plexiglas™, glass, glazed ceramic tile, linoleum, baked enamel, stainless steel (follow equipment manufacturers' directions)
- Disinfection sites include POCT equipment, lab equipment, counters, centrifuges, cryostats, phlebotomy and specimen collection areas, wastewater treatment, pharma and research labs
- The HYPE-WIPE pouch measures 3 × 5" (7.6 × 12.7cm) and contains a folded 6 × 12" (15.2 × 30.5cm) towel
- The Mini HYPE-WIPE pouch measures 3 × 3" (7.6 × 7.6cm) and contains a folded 3 × 3" (7.6 × 7.6cm) towel

ORDERING INFORMATION:
Clear acrylic holders avaliable for storing HYPE-WIPES™ and MINI HYPE-WIPES™ are not included.

COMPLIANCE:
EPA registered as a one-step hospital cleaner/disinfectant for hard nonporous surfaces including counters, benchtops and equipment

Kill Time	Pathogens
One Minute	**Bacteria**
	Carbapenem-resistant Klebsiella pneumoniae (CRKP)
	Escherichia coli (ESBL)
	Pseudomonas aeruginosa
	Salmonella enterica
	Streptococcus pyogenes
	Tuberculosis - TB (Mycobacterium bovis - BCG)
	Virus
	Hepatitis B (HBV)
	Hepatitis C (HCV)
	Influenza A H1N1 (swine flu)
	Norovirus
	Respiratory Syncytial (RSV)
	Rotavirus
Two Minutes	Methicillin Resistant Staphylococcus aureus (MRSA)
	Staphylococcus aureus
	Vancomycin Resistant Enterococcus faecium (VRE)
Four Minutes	Clostridium difficile spores

Size	Unfolded Towel Size (W × L)	Mfr. No.	Cat. No.	Case of 100
Standard	6 × 12" (15.2 × 30.5cm)	9103	**14-412-56**	102.27
Mini	3 × 3" (7.6 × 7.6cm)	9803	**14-412-59**	59.20

Decon™ CiDecon™ Disinfectant Wipes

Phenolic-based, hard-surface safe to provide broad spectrum efficacy against bacteria, viruses and fungi, including HIV-1

04-355-82

Provide broad spectrum efficacy against bacteria, viruses and fungi, including HIV-1

COMPLIANCE:
Meets OSHA's Bloodborne Pathogens Standards and is EPA registered.

Size	Mfr. No.	Cat. No.	Canister of 65	Case of 6
6 × 10.5" (15.2 × 26.7cm)	8510	**04-355-82**	42.73	219.50

CiDecon™ Plus Wipes

Premoistened phenolic disinfectant wipes for use on hard surfaces

- Achieve hospital disinfection in three minutes and maintain continual residual bacteriostatic activity for up to six months
- Economical, durable wipes display superior efficacy against a broad range of pathogenic organisms
- Tuberculocidal, virucidal, bactericidal and fungicidal

COMPLIANCE:
Meet OSHA Bloodborne Pathogen Standard. EPA registered.

04-355-87

Packaging	Size (W × L)	Mfr. No.	Cat. No.	Each	Case of 12
Pop-up canister (180 wipes)	5 × 8" (12.7 × 20.3cm)	8511	**04-355-87**	37.89	388.37

CiDehol™ 70 Wipes

Alcohol wipes in canister

- Pre-saturated with 70% isopropyl alcohol (IPA) and 30% USP grade water
- Environmentally Friendly: Item contains environmental attributes or features (e.g. water conserving, lead-free, etc.) as described in the item detail
- Recycled: Item contains recycled content as described in the item detail
- Nontoxic

Size (W × L)	Packaging	Mfr. No.	Cat. No.	Each	Case of 12
6 × 7" (15.24 × 17.78cm)	Canister (160 wipes)	8775	**04-355-300**	35.54	364.51

Steris™ Germicidal Surface Wipes

Nonwoven disposable cloths containing a stable, low pH disinfectant/deodorant cleaner

- Dual chain quaternary/isopropyl alcohol for use on hard, nonporous surfaces
- Provide broad spectrum biocidal activity, including Mycobacterium tuberculosis and HIV-1 virus
- Ready-to-use

APPLICATIONS:
Designed for use on hard, nonporous surfaces.

14-415-16

Packaging	Size (W × L)	Mfr. No.	Cat. No.	Each	Case of 12
Canister, 160 wipes	6 × 6.75" (15.2 × 17.1cm)	1608-GS	**14-415-16**	42.30	425.50
Canister, 60 wipes	10 × 10" (25.4 × 25.4cm)	1608-WC	**14-415-17**	41.35	417.50

Wire

Multiple-Use Bare Copper Wire

Solid, soft-drawn annealed copper wire

- Available in various tempers and sizes
- Uninsulated

APPLICATIONS:
For busbar crafts, metal finishers' hanging wire and grounding applications.

COMPLIANCE:
Meets QQ-W-343, TYPE S, MIL-W-3861, TYPE S, ASTM™-B-3.

15-545 Series, Copper Wire

AWG Gauge	Dia. (mm)	Feet/lb.	Mfr. No.	Cat. No.	Each	Case of
1 lb. (454g) spools						
16	1.3	126	AWC 34164	**15-545-2A**	90.95	12/923.12
18	1.0	199	AWC 34184	**15-545-2B**	90.37	12/917.50
20	0.81	315	20GAUGE	**15-545-2C**	85.38	12/866.62
22	0.64	501	22GAUGE	**15-545-2D**	110.22	12/1119.03
24	0.51	793	24GAUGE	**15-545-2E**	60.75	8/411.23
0.25 lb.(113g) spools						
16	1.3	126	BARE 16GA	**15-545-1A**	33.36	12/338.66
18	1.0	199	BARE 18GA	**15-545-1B**	34.57	12/350.83
20	0.81	315	BARE 20GA	**15-545-1C**	40.50	12/410.98

Wrapping Film

Curwood Parafilm M™ Laboratory Wrapping Film

Quickly, effectively seals labware

13-374 Series

- Waterproof, moisture-proof film prevents sample evaporation, contamination; protects anhydrous materials
- Can be folded repeatedly and twisted around sharp surface without rupturing
- Increases approximately 200% when stretched lengthwise at 21°C (70°F)
- Partially returns to original length when tension is removed
- Becomes more flexible and softer as temperature increases
- Rolls are interlined with paper to prevent adhering

ORDERING INFORMATION:
13-374-10, 13-374-12 and 13-374-16 rolls are packaged in cardboard dispensing cartons.

Roll Dimensions (W × L)	Mfr. No.	Cat. No.	Each	Case of
2" × 250' (5cm × 76m)	PM992	**13-374-16**	53.17	24/943.81
4" × 125' (10cm × 38m)	PM996	**13-374-10**	78.37	12/695.31
4" × 250' (10cm × 76m)	PM999	**13-374-12**	94.96	12/921.01
20" × 50' (51cm × 15m)	PM998	**13-374-5**	109.37	6/528.71

Fisherbrand® Polyvinyl Wrapping Film

Pure food-grade polyvinyl chloride film in its own dispenser

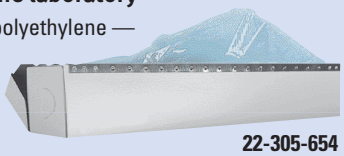
15-610

- Gas permeable, making it especially good for covering culture trays
- Also useful for wrapping or covering any perishable material for refrigerator or freezer storage

Roll Dimensions (W × L)	Cat. No.	Each
18" × 1000' (45cm × 305m)	**15-610**	15.41

Fisherbrand® Clear Plastic Lab Wrap

Designed specifically for the laboratory



22-305-654

- Made of 100% ultraclean polyethylene — ensures sample purity and eliminates contamination
- High-cling properties make it ideal for wrapping of beakers, flasks, or Petri dishes with an extraordinarily tight seal that stays in place
- Low-tangle properties ensure wrap won't ball up when being handled
- Carton has convenient metal tear-off bar

Roll Dimensions (W × L)	Cat. No.	Each
12" × 100' (30.5cm × 30.5m)	**22-305-654**	15.41

Fisherbrand® Aluminum Foil Rolls

For sealing, weighing and transferring samples

01-213-101

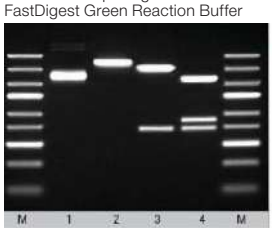
- Packed in individual dispenser box with cutter bar
- Heavy-gauge rolls (0.024mm thick) offer greater folding strength, good for covering sharp edges

Thickness	W x L	Cat. No.	Each	Case of
Rolls				
0.018mm	12" × 25' (30.5cm × 7.6m)	**01 213 100**	6.62	24/158.90
0.018mm	12" × 200' (30.5cm × 61m)	**01-213-101**	42.49	16/679.95
0.018mm	12" × 500' (30.5cm × 152m)	**01-213-102**	91.25	9/821.23
0.024mm	18" × 25' (46cm × 7.6m)	**01-213-103**	19.70	12/236.34
0.024mm	18" × 500' (46cm × 152m)	**01-213-105**	247.96	----
0.024mm	18" × 50' (46cm × 15.2m)	**01 213 104**	30.23	12/362.75
Sheets				
0.013mm	9" × 10.6" (230mm × 270mm)	**01-213-106**	Pk. of 200/27.74	12/312.12

1 buffer • 100% digestion • all DNA templates

Thermo Scientific™ FastDigest™ Restriction Enzymes

Five minute triple digestion in the FastDigest Green Reaction Buffer



1. plasmid - undigested control
2. plasmid - digested with FastDigest EcoRI
3. plasmid - double digested with FastDigest EcoRI and FastDigest KpnI
4. plasmid - triple digested with FastDigest EcoRI, FastDigest KpnI and FastDigest SmaI

M. marker - Thermo Scientific GeneRuler Express Ladder #FERSM1553

- 100% activity of all Thermo Scientific FastDigest Enzymes in the universal buffer
- 100% buffer compatibility with downstream applications
- Direct loading on gel
- No star activity
- Complete digestion in 5 to 15 minutes

Standard reaction set-up

Component	Volume			
	Plasmid DNA	PCR product unpurified	PCR product purified	Genomic DNA
Nuclease-free Water	15µL	17µL	up to 30µL	30µL
10X FastDigest Green Buffer or 10X FastDigest Buffer	2µL	2µL	3µL	5µL
DNA	2µL (up to 1µg)	10µL (~0.2µg)	~0.2µg	10µL (5µg)
FastDigest enzyme	1µL	1µL	1µL	5µL
TOTAL volume	**20µL**	**30µL**	**30µL**	**50µL**

The volume of DNA can be scaled up to 10µL or down to 0.5µL depending on the DNA concentration. The volume of water should be corrected to keep the indicated total reaction volume.

Activity of DNA/RNA modifying enzymes in FastDigest Green Buffer and FastDigest Buffer

DNA/RNA modifying enzyme	Activity in FastDigest Green Buffer/ FastDigest Buffer
DNA Polymerase I (#FEREP0041)	100%
Klenow Fragment (#FEREP0051)	100%
Klenow Fragment, exo⁻ (#FEREP0421)	100%
T4 DNA Polymerase (#FEREP0061)	100%
T7 DNA Polymerase (#FEREP0081)	100%
T4 DNA Ligase* (#FEREL0011)	75-100%
Thermo Scientific FastAP Alkaline Phosphatase (#FEREF0651)	100%
T4 Polynucleotide Kinase (#FEREK0031)	100%

*0.5 mM ATP is required for T4 DNA Ligase activity.

Scaling up DNA digestion reaction

DNA	1µg	2µg	3µg	4µg	5µg
FastDigest Enzyme	1µL	2µL	3µL	4µL	5µL
10X FastDigest Green Buffer or 10X FastDigest Buffer	2µL	2µL	3µL	4µL	5µL
TOTAL volume	20µL	20µL	30µL	40µL	50µL

Part Number	Product Description	Specificity 5' ⟶ 3'	Reaction Temperature °C	Digestion Time With 1µL of FastDigest Enzyme, Min: Lambda DNA 1µg/20µL	Plasmid DNA 1µg/20uL	PCR Product ~0.2µg/30µL	Genomic DNA 1µg/10µL	bp From End of DNA Required for Complete Digestion	Thermal Inactivation	Incubation Time Without Star Activity, Hours	Package Size, Reactions
FERFD1464	FASTDIGEST AGEI (BSHTI) 20RXN	A^CCGGT	37	5	5	5	5	3	80°C, 5 min.	16	20
FERFD1894	FASTDIGEST ASCI (SGSI) 100RXN	GG^CGCGCC	37	5	5	5	5	2	65°C, 20 min.	16	100
FERFD1564	FASTDIGEST AVRII (XMAJI) 20RXN	C^CTAGG	37	5	10	5	10	2	No	16	20
FERFD0054	FASTDIGEST BAMHI 800RXN	G^GATCC	37	5	5	5	5	2	80°C, 5 min.	1	800
FERFD0055	FASTDIGEST BAMHI 5X500RXN	G^GATCC	37	5	5	5	5	2	80°C, 5 min.	1	2500
FERFD1014	FASTDIGEST BBSI (BPII) 20RXN	GAAGAC(2/6)^	37	5	5	5	5	1	65°C, 10 min.	16	20
FERFD0084	FASTDIGEST BGLII 200RXN	A^GATCT	37	5	20	30	20	3	No	16	200
FERFD0854	FASTDIGEST BSIWI(PFL23II) 50RXN	C^GTACG	37	15	15	15	15	3	65°C, 5 min.	16	50
FERFD0454	FASTDIGEST BSMBI (ESP3I) 20RXN	CGTCTC(1/5)^	37	5	5	5	5	1	65°C, 10 min.	6	20
FERFD2134	FASTDIGEST BSSHII (PTEI) 20RXN	G^CGCGC	37	5	5	5	5	3	80°C, 5 min.	16	20
FERFD1704	FASTDIGEST DPNI 100RXN	Gm6A^TC	37	ND	5	NA	10	1	80°C, 5 min.	16	50
FERFD0274	FASTDIGEST ECORI 800RXN	G^AATTC	37	5	5	20	5	2	80°C, 5 min.	0.5	800
FERFD0275	FASTDIGEST ECORI 5X500RXN	G^AATTC	37	5	5	20	5	2	80°C, 5 min.	0.5	2500
FERFD0304	FASTDIGEST ECORV(ECO32I) 400RXN	GAT^ATC	37	5	5	5	5	2	No	16	400
FERFD0504	FASTDIGEST HINDIII 800RXN	A^AGCTT	37	5	5	20	10	3	80°C, 10 min.	16	800
FERFD0505	FASTDIGEST HINDIII 5X500RXN	A^AGCTT	37	5	5	20	10	3	80°C, 10 min.	16	2500
FERFD0524	FASTDIGEST KPNI 300RXN	GGTAC^C	37	5	5	5	5	3	80°C, 5 min.	16	300
FERFD0564	FASTDIGEST MLUI 100RXN	A^CGCGT	37	5	5	5	15	3	80°C, 5 min.	16	100
FERFD0574	FASTDIGEST NCOI 100RXN	C^CATGG	37	5	10	10	5	3	65°C, 15 min.	16	100
FERFD0575	FASTDIGEST NCOI 300RXN	C^CATGG	37	5	10	10	5	3	65°C, 15 min.	16	300
FERFD0584	FASTDIGEST NDEI 300RXN	CA^TATG	37	5	5	60	30	3	65°C, 5 min.	6	300
FERFD0974	FASTDIGEST NHEI 100RXN	G^CTAGC	37	5	5	15	5	5	65°C, 5 min.	6	100
FERFD0594	FASTDIGEST NOTI 50RXN	GC^GGCCGC	37	no sites	30	5	10	2	80°C, 5 min.	16	50
FERFD0595	FASTDIGEST NOTI 150RXN	GC^GGCCGC	37	no sites	30	5	10	2	80°C, 5 min.	16	150
FERFD2204	FASTDIGEST PACI 25RXN	TTAAT^TAA	37	no sites	5	5	5	2	65°C, 10 min.	16	25
FERFD0744	FASTDIGEST RSRII (CPOI) 20RXN	CG^GWCCG	37	5	5	5	5	1	65°C, 5 min.	16	20
FERFD1134	FASTDIGEST SACI 200RXN	GAGCT^C	37	5	15	30	10	1	65°C, 5 min.	16	200
FERFD0644	FASTDIGEST SALI 200RXN	G^TCGAC	37	5	5	60	5	3	65°C, 10 min.	16	200
FERFD2164	FASTDIGEST SANDI (KFLI) 20RXN	GG^GWCCC	37	5	5	5	10	5	No	16	20
FERFD1254	FASTDIGEST SPEI (BCUI) 50RXN	A^CTAGT	37	no sites	5	5	5	1	No	16	50
FERFD0604	FASTDIGEST SPHI (PAEI) 20RXN	GCATG^C	37	5	5	5	5	5	65°C, 5 min.	16	20
FERFD0684	FASTDIGEST XBAI 300RXN	T^CTAGA	37	5	5	5	10	2	65°C, 20 min.	16	300
FERFD0685	FASTDIGEST XBAI 750RXN	T^CTAGA	37	5	5	5	10	2	65°C, 20 min.	16	750
FERFD0694	FASTDIGEST XHOI 400RXN	C^TCGAG	37	5	5	5	10	2	80°C, 5 min.	16	400
FERFD0695	FASTDIGEST XHOI 3X400RXN	C^TCGAG	37	5	5	5	10	2	80°C, 5 min.	16	1200

Thermo SCIENTIFIC

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Fittings Technical Guide

Fittings

Fittings — typically comprised of a nut and ferrule — are designed to connect and seal tubing. While simple in function, fittings can be complex in description and use. General descriptive terms include: the geometry of the receiving port (coned or flat-bottom); the tubing size for which the fitting is designed; and a description of the threads on the nut, e.g., 10-32, 1/4-28, etc. Fittings may also be classified by dimensions and by the type of material from which they are manufactured. Additional information — such as tubing and port material, solvent(s) to be used, and expected system pressure — is required to determine which fittings are best suited for a particular application.

Threads

Several thread sizes are commonly used in analytical fluid transfer. The most common sizes are 1/4-28, 10-32, and M6. The first two are U.S. Customary System measurements. The third, M6, is measured in the Metric System.

U.S. Customary System Two numbers are used to describe a thread size. The first number indicates the diameter of the threaded portion of the nut. Thread diameter numbers range from gauge 1 (0.073") to gauge 12 (0.216"). Beyond 0.216" the thread diameter is given as the actual diameter in fractions of an inch. The second number indicates the threads-per-inch count. Thus, a 1/4-28 nut (Figure 1) has a 1/4" (0.250") diameter thread barrel and 28 threads-per-inch. A 10-32 male nut (Figure 2) has a gauge 10 (0.190") thread barrel with 32 threads-per-inch.

Metric System The Metric System also uses a two number system to describe the threads. The first number, preceded by the letter M (for metric), indicates the diameter of the threads in millimeters. The second number indicates how many millimeters between each thread. When the spacing between threads is 1mm, the callout for the thread often excludes that second number. Thus, an M6x1 thread is often denoted by a simple M6 (Figure 3).

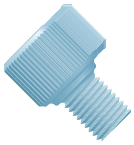


Figure 1
1/4-28 Nut

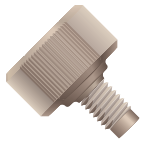


Figure 2
10-32 Nut

Figure 3
M6 Nut

MATERIAL STRUCTURAL COMPATIBILITY

Fitting	Tubing	Port	Recommended?
Plastic	Plastic	Plastic	Yes
Plastic	Steel	Plastic	Yes
Plastic	Steel	Steel	Yes
Plastic	Plastic	Steel	Yes
Steel	Steel	Steel	Yes
Steel	Plastic	Steel	Sometimes
Steel	Plastic	Plastic	No
Steel	Steel	Plastic	No

Interchangeability

Because swaged stainless-steel ferrules are permanently attached to the tubing, interchangeability is almost impossible with stainless-steel fittings. The key factor that limits interchangeability of stainless-steel fittings is "Dimension X"—the length of tubing that extends past a swaged ferrule (Figure 4).

Dimension X varies among manufacturers (Figure 5). Dimension X can also vary for the same manufacturer due to production tolerances. Because of these differences, if all-stainless-steel fittings are being used, they should only be used in the port into which they were originally swaged (Figure 6a). Interchanging fitting assemblies and receiving ports can introduce leaks and/or dead-volume chambers to the flow path (Figure 6b). Therefore, for stainless-steel fittings, new fittings, new ferrules, and new connections should be used each time receiving ports are changed.

Even though interchangeability is a problem with stainless-steel fittings, it is generally not a problem with polymer fittings. Because polymer ferrules do not permanently attach to the tubing wall, Dimension X can be adjusted each time the fitting assembly is connected to a receiving port. This helps ensure a good connection with minimal dead volume.

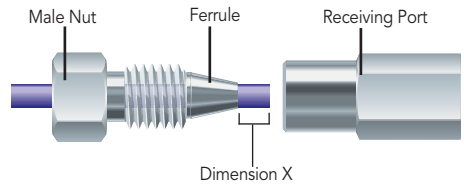
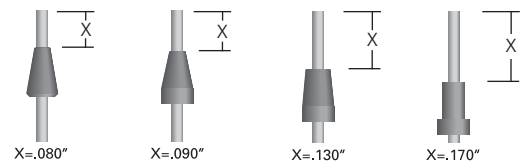
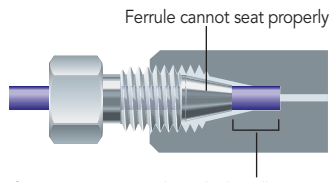


Figure 4



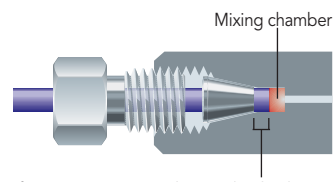
Dimension X can range from 0.080" to 0.170" among various manufacturers.

Figure 5



If Dimension X is too long, leaks will occur

Figure 6a



If Dimension X is too short, a dead-volume, or mixing chamber, will occur

Figure 6b

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HOW BLUE IS YOUR LAB?

	Ia	2 IIa	3 IIIb	4 IVb	5 Vb	6 VIb	7 VIIb	8	9 VIIIb	10	11 Ib	12 IIb	13 IIIa	14 IVa	15 Va	16 VIa	17 VIIa	0
1	H 1 1.008 -259.34° -252.87° -240.18° Hydrogen																	He 2 4.003 -272.2° -268.93° -267.96° Helium
2	Li 3 6.941 180.5° 1342° Lithium	Be 4 9.012 1287° 2471° Beryllium											B 5 10.811 2075° 4000° Boron	C 6 12.011 4492i° 3642s°	N 7 14.007 -210.00° -195.79° -146.94° Nitrogen	O 8 15.999 -218.79° -182.95° -118.56° Oxygen	F 9 18.998 -219.62° -188.12° -129.02° Fluorine	Ne 10 20.180 -248.59° -246.08° -228.7° Neon
3	Na 11 22.990 97.80° 883° Sodium	Mg 12 24.305 650° 1090° Magnesium											Al 13 26.982 660.32° 2519° Aluminum	Si 14 28.086 1414° 3265° Silicon	P 15 30.974 44.15° 280.5° 721° Phosphorous	S 16 32.066 115.21° 444.60° 1041° Sulfur	Cl 17 35.453 -101.5° -34.04° 143.8° Chlorine	Ar 18 39.948 -189.35° -185.85° -122.28° Argon
4	K 19 39.098 63.38° 759° Potassium	Ca 20 40.078 842° 1484° Calcium	Sc 21 44.956 1541° 2836° Scandium	Ti 22 47.88 1668° 3287° Titanium	V 23 50.942 1910° 3407° Vanadium	Cr 24 51.996 1907° 2671° Chromium	Mn 25 54.938 1246° 2061° Manganese	Fe 26 55.847 1538° 2861° Iron	Co 27 58.933 1495° 2927° Cobalt	Ni 28 58.69 1455° 2913° Nickel	Cu 29 63.546 1084.62° 2562° Copper	Zn 30 65.39 419.53° 907° Zinc	Ga 31 69.723 29.76° 2204° Gallium	Ge 32 72.61 938.25° 2833° Germanium	As 33 74.922 817t° 614s° 1400° Arsenic	Se 34 78.96 221° 685° 1493° Selenium	Br 35 79.904 -7.2° 58.8° 315° Bromine	Kr 36 83.80 -157.36° -153.22° -63.74° Krypton
5	Rb 37 85.468 39.31° 688° Rubidium	Sr 38 87.62 777° 1382° Strontium	Y 39 88.906 1522° 3345° Yttrium	Zr 40 91.224 1855° 4409° Zirconium	Nb 41 92.906 2477° 4744° Niobium	Mo 42 95.94 2623° 4639° Molybdenum	Tc 43 (98) 2157° 4265° Technetium	Ru 44 101.07 2334° 4150° Ruthenium	Rh 45 102.906 1964° 3695° Rhodium	Pd 46 106.42 1554.9° 2963° Palladium	Ag 47 107.868 961.78° 2162° Silver	Cd 48 112.411 321.07° 767° Cadmium	In 49 114.82 156.60° 2072° Indium	Sn 50 118.71 231.93° 2602° Tin	Sb 51 121.75 630.63° 1587° Antimony	Te 52 127.60 449.51° 988° Tellurium	I 53 126.905 113.7° 184.4° 546° Iodine	Xe 54 131.29 -111.75° -108.04° 16.58° Xenon
6	Cs 55 132.905 28.44° 671° Cesium	Ba 56 137.327 727° 1897° Barium		Hf 72 178.49 2233° 4603° Hafnium	Ta 73 180.948 3017° 5458° Tantalum	W 74 183.85 3422° 5555° Tungsten	Re 75 186.207 3186° 5596° Rhenium	Os 76 190.2 3033° 5012° Osmium	Ir 77 192.22 2446° 4428° Iridium	Pt 78 195.08 1768.4° 3825° Platinum	Au 79 196.967 1064.18° 2856° Gold	Hg 80 200.59 -38.83° 356.73° 1477° Mercury	Tl 81 204.383 304° 1473° Thallium	Pb 82 207.2 327.46° 1749° Lead	Bi 83 208.980 271.40° 1564° Bismuth	Po 84 (209) 254° 962° Polonium	At 85 (210) 302° Astatine	Rn 86 (222) -71° -61.7° 104° Radon
7	Fr 87 (223) 27° Francium	Ra 88 226.025 700° Radium		Rf 104 (261) Rutherfordium	Db 105 (261) Dubnium	Sg 106 (263) Seaborgium	Bh 107 (262) Bohrium	Hs 108 (265) Hassium	Mt 109 (266) Meitnerium	Ds 110 (271) Darmstadtium	Rg 111 (272) Roentgenium	Cn 112 (277) Copernicium	Uut 113 (281) Ununtrium	Uuq 114 (285) Ununquadium	Uup 115 (287) Ununpentium	Uuh 116 (289) Ununhexium	Uus 117 (291) Ununseptium	Uuo 118 (293) Ununoctium

Lanthanide Series	La 57 138.906 798° 3443° Lanthanum	Ce 58 140.115 931° 3520° Cerium	Pr 59 140.908 1021° 3074° Praseodymium	Nd 60 144.24 1042° 3000° Neodymium	Pm 61 (145) 1074° 1794° Promethium	Sm 62 150.36 822° 1596° Samarium	Eu 63 151.965 1313° 3273° Europium	Gd 64 157.25 1356° 3230° Gadolinium	Tb 65 158.925 1412° 2567° Terbium	Dy 66 162.50 1474° 2700° Dysprosium	Ho 67 164.93 1529° 2868° Holmium	Er 68 167.26 1545° 1950° Erbium	Tm 69 168.934 819° 1196° Thulium	Yb 70 173.04 1663° 3402° Ytterbium	Lu 71 174.967 918° 3464° Lutetium
Actinide Series	Ac 89 227.028 1750° 4788° Actinium	Th 90 232.038 1572° Thorium	Pa 91 231.036 1135° 4131° Protactinium	U 92 238.029 644° Uranium	Np 93 237.048 640° 3228° Neptunium	Pu 94 (244) 1176° 2011° Plutonium	Am 95 (243) 1345° Americium	Cm 96 (247) 1050° Curium	Bk 97 (247) 900° Berkelium	Cf 98 (251) 860° Californium	Es 99 (252) 1527° Einsteinium	Fm 100 (257) 827° Fermium	Md 101 (258) 827° Mendelevium	No 102 (259) 1627° Nobelium	Lr 103 (260) 1051° 3198° Lawrencium

KEY TO TABLE

Symbol — H — 1 — Atomic Number
Atomic Weight — 1.008 — -259.34° -252.87° -240.18° — Melting Point (°C), Boiling Point (°C), Critical Point (°C)
Element Name — Hydrogen

- Alkali Metals
- Alkaline Earth Metals
- Transition Elements
- Non-metals
- Other Metals
- Halogens
- Inert Gases
- Lanthanide Series
- Actinide Series

Aa – Solid
Aa – Liquid
Aa – Gas
Aa – Synthetically Prepared

Fisher Scientific

*Trademark. See Trademark Reference.

Prices subject to change.

Conversion Tables

Find the unit of measurement from which you want to convert under the column "Unit." Move across the line until you reach the column under the unit to which you want to convert. Multiply your existing measurement by the listed factor to obtain the conversion. (Ex: Suppose you want to convert 5 sq. in. into sq. cm. Find "sq. in." under the "Unit" column in the Area table below. Move across this line until you come to the column under "sq. cm." Multiply 5 sq. in. by 6.452 to get 32.260 sq. cm.)

Area

Unit	Sq. In.	Sq. Ft.	Sq. Yd.	Sq. cm	Sq. m
Sq. In.	1	0.006944	0.0007716	6.452	0.000645
Sq. Ft.	144	1	0.1111	929	0.0929
Sq. Yd.	1296	9	1	8361	0.8361
Sq. cm	0.155	0.001076	0.0001196	1	0.0001
Sq. m	1550	10.76	1.196	10,000	1

Force

Unit	Dyne	Lb.	Newton
Dyne	1	2.248×10^{-6}	10^{-5}
Lb.	444,823	1	4.448
Newton	100,000	0.2248	1

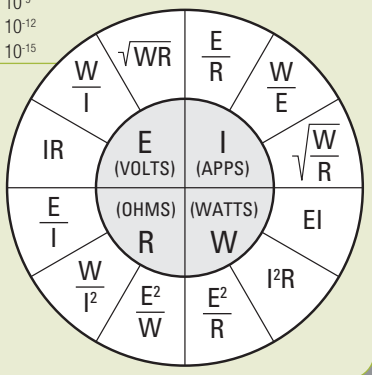
Heat

1 cal./g•°C = 1BTU/lb.•°F = 4.184 joule/g•°C = 4184 joule/kg•°C
1 cal./g = 1BTU/lb. = 4.184 joule/g = 4184 joule/kg

Metric Prefixes

Prefix	Abbreviation	Meaning
peta-	P	$\times 10^{15}$
tera-	T	$\times 10^{12}$
giga-	G	$\times 10^{9}$
mega-	M	$\times 10^{6}$
kilo-	k	$\times 10^{3}$
deci-	d	$\times 10^{-1}$
centi-	c	$\times 10^{-2}$
milli-	m	$\times 10^{-3}$
micro-	µ	$\times 10^{-6}$
nano-	n	$\times 10^{-9}$
pico-	p	$\times 10^{-12}$
femto-	f	$\times 10^{-15}$

OHM'S LAW



Length

Unit	In.	Ft.	Yd.	Mile (Statute)	cm	m	km
In.	1	0.0833	0.02778	1.578×10^{-5}	2.54	0.0254	2.54×10^{-5}
Ft.	12	1	0.333	1.894×10^{-4}	30.48	0.3048	3.048×10^{-4}
Yd.	36	3	1	5.682×10^{-4}	91.44	0.9144	9.144×10^{-4}
Mile (Statute)	63,360	5280	1760	1	160,900	1609	1.609
cm	0.3937	0.03281	0.01094	6.214×10^{-6}	1	0.01	10^{-5}
m	39.37	3.281	1.094	6.214×10^{-4}	100	1	10^{-3}
km	39,370	3281	1094	0.6214	100,000	1000	1

1 angstrom (Å) = 10^{-10}m = 10^{-5}cm = 10^{-4}µm
1 fermi = 1 femtometer (fm) = 10^{-15}m = 10^{-13}cm = 10^{-9}µm
1 light-year = 5.9×10^{12} miles (statute) = 9.46×10^{12}km
1 micron (µm or µ) = 10^{-6}m = 10^{-4}cm = 10^{-3}mm

Liquid Measures

(All drams, ounces, quarts and gallons are U.S. liquid except where indicated.)

Unit	Dram	Oz.	Qt.	Gal.	Cu. In.	Cu. Ft.	mL	L	Cu. cm	Cu. m
Dram	1	0.125	0.00391	9.766×10^{-4}	0.2256	1.3055×10^{-4}	3.6967	0.0036967	3.6967	----
Oz.	8	1	0.03125	7.813×10^{-3}	1.805	1.0444×10^{-3}	29.5735	0.02957	29.5735	----
Qt.	256	32	1	0.25	57.75	0.03342	946.4	0.9464	946.4	9.464×10^{-4}
Gal.	1024	128	4	1	231	0.1337	3785	3.785	3785	3.785×10^{-3}
Cu. In.	4.4329	0.5541	0.01732	4.329×10^{-3}	1	5.787×10^{-4}	16.39	0.01639	16.39	1.639×10^{-5}
Cu. Ft.	7660.05	957.51	29.92	7.48052	1728	1	28,316.9	28.32	28,316.9	2.832×10^{-2}
mL	0.2705	0.0338	0.001057	2.642×10^{-4}	0.06103	3.532×10^{-5}	1	0.001	1	10^{-6}
L	270.512	33.814	1.057	0.2642	61.024	0.03531	1000	1	1000	10^{-3}
Cu. cm	0.2705	0.0338	0.001057	2.642×10^{-4}	0.06103	3.532×10^{-5}	1	0.001	1	10^{-6}
Cu. m	----	----	1057	264.2	61,023.7	35.31	10^{6}	1000	10^{6}	1

1 gal. U.K. = 1.20095 gal. U.S.
1 gal. U.S. = 0.832675 gal. U.K.
1 lb. of water = 27.68 cu. in. = 0.01602 cu. ft. = 0.1198 gal.

Inch Equivalents

Fraction (inches)	Decimal (inches)	Millimeters
1/64	0.015625	0.3969
1/32	0.03125	0.7938
1/16	0.0625	1.5875
1/8	0.125	3.175
3/16	0.1875	4.7625

Fraction (inches)	Decimal (inches)	Millimeters
1/4	0.25	6.35
5/16	0.3125	7.9375
3/8	0.375	9.525
7/16	0.4375	11.1125

Fraction (inches)	Decimal (inches)	Millimeters
1/2	0.50	12.70
9/16	0.5625	14.2875
5/8	0.625	15.875
11/16	0.6875	17.4625
3/4	0.75	19.05

Fraction (inches)	Decimal (inches)	Millimeters
13/16	0.8125	20.6375
7/8	0.875	22.225
15/16	0.9375	23.8125
1	1.0	25.40

Conversion Tables *(continued)*

METTLER TOLEDO

Mass

(Apoth. stands for apothecaries'; avdp. stands for avoirdupois.)

Unit	Grain	Apoth. Scruple	Avdp. Dram	Apoth. Dram	Avdp. Oz.	Apoth. Oz.	Avdp. Lb.	Apoth. Lb.	g	kg	Ton (Short)	Ton (Long)	Ton (Metric)
Grain	1	0.05	0.0365714	0.0167	0.002286	0.002083	0.000142	0.0001736	0.0648	6.48×10^{-5}	----	----	----
Apoth. Scruple	20	1	0.7314	0.3333	0.0457	0.0417	0.002857	0.003472	1.296	0.001296	----	----	----
Avdp. Dram	27.3437	1.367	1	0.4557	0.0625	0.0570	0.003906	0.004747	1.7718	0.0017718	----	----	----
Apoth. Dram	60	3	2.1943	1	0.1371429	0.125	0.008571	0.0104	3.8879	0.003888	----	----	----
Avdp. Oz.	437.5	21.875	16	7.292	1	0.9115	0.0625	0.0759	28.3495	0.0283	----	----	----
Apoth. Oz.	480	24	17.554	8	1.09714	1	0.0686	0.08333	31.1035	0.0311	----	----	----
Avdp. Lb.	7000	350	256	116.67	16	14.5833	1	1.21528	453.5924	0.4536	5×10^{-4}	4.464×10^{-4}	4.536×10^{-4}
Apoth. Lb.	5760	288	210.65	96	13.1657	12	0.822857	1	373.2417	0.3732	4.11×10^{-4}	3.6×10^{-4}	3.7324×10^{-4}
g	15.43	0.7716	0.5644	0.2572	0.03527	0.03215	0.002205	0.002679	1	0.001	----	----	----
kg	15,432.4	771.62	564.38	257.21	35.274	32.151	2.205	2.679	1000	1	1.102×10^{-3}	9.842×10^{-4}	10^{-3}
Ton (Short)	----	----	----	----	----	----	2000	2430.56	----	907.1847	1	0.89286	0.9072
Ton (Long)	----	----	----	----	----	----	2240	2722.22	----	1016	1.12	1	1.016
Ton (Metric)	----	----	----	----	----	----	2205	2679.229	----	1000	1.1023	0.9842	1

Weight = Mass × 9.80665m/sec.[2]

Power

Unit	BTU/min.	Ft.-lb./sec.	hp	Joule/sec.	kW	Watt
BTU/min.	1	12.96	0.02356	17.57	0.01757	17.57
Ft.-lb./sec.	0.077†	1	0.001818	1.356	0.001356	1.356
hp	42.44	550	1	745.7	0.7457	745.7
Joule (abs.)/sec.	0.0569	0.7378	0.001341	1	0.001	1
kW	56.83†	737.6	1.341	1000	1	1000
Watt	0.057†	0.7378	0.001341	1	0.001	1

† BTU (mean)/min.

Velocity

(All miles are statute.)

Unit	Ft./sec.	Miles/hr.	m/min.	km/hr.
Ft./sec.	1	0.6818	18.29	1.097
Miles/hr.	1.467	1	26.82	1.609
m/min.	0.05468	0.03728	1	0.06
km/hr.	0.9113	0.6214	16.67	1

Volume

Unit	Cu. In.	Cu. Ft.	Cu. Yd.	Cu. cm	Cu. m
Cu. In.	1	5.787×10^{-4}	2.143×10^{-5}	16.39	1.639×10^{-5}
Cu. Ft.	1728	1	0.03704	28,316.85	0.02832
Cu. Yd.	46,656	27	1	764,600	0.7646
Cu. cm	0.06102	3.531×10^{-5}	1.3×10^{-6}	1	10^{-6}
Cu. m	61,023.74	35.31	1.308	10^{6}	1

Work and Energy

Unit	BTU	Cal./g (IST‡)	Erg	Ft.-lb.	Joule	kW-hr.
BTU	1	252	1.05×10^{10}	778	1054.8	0.00029
Cal./g	0.00397	----	4.18×10^{7}	3.08596	4.184	1.16×10^{-6}
Erg	9.48×10^{-11}	2.39×10^{-8}	1	7.4×10^{-8}	10^{-7}	2.778×10^{-14}
Ft.-lb.	0.00129	0.3238	1.356×10^{7}	1	1.356	3.766×10^{-7}
Joule (abs.)	9.48×10^{-4}	0.2389	10^{7}	0.7376	1	2.78×10^{-7}
kW-hr.	3410††	8.6×10^{5}	3.6×10^{13}	2.66×10^{6}	3.6×10^{6}	1

‡ International Steam Table.
†† BTU (mean).

1 electron volt (eV) = 1.6×10^{-19} joule

*Trademark. See Trademark Reference.

Prices subject to change.

Conversion Tables *(continued)*

Typical Index of Refraction (RI) and Brix Values

Sample	RI	Sample	% Brix	Sample	% Brix
Calcium chloride	1.33 to 1.44	Oranges, pears	5 to 13	Lactic acid beverages	17 to 21
Castor oil (40°C)	1.4770	Tomatoes	2 to 5	Condensed milk	52 to 68
Citric acid	1.33 to 1.37	Apples, melons	11 to 18	Liquid sugar	59 to 80
Corn oil (40°C)	1.4734	Strawberries	15 to 11	Grape wine	14 to 18
Ethylene glycol	1.33 to 1.39	Grapes	12 to 24	Bean milk	5 to 13
Hydrochloric acid	1.33 to 1.42	Fruit juices	12 to 17	Egg yolk	45 to 49
Nitric acid	1.33 to 1.38	Canned fruits	15 to 29	Steak sauce	27 to 37
Olive oil (40°C)	1.4679	Tomato puree	7 to 16	Ketchup	27 to 37
Peanut oil (40°C)	1.4691	Tomato juice	5 to 9	Milk	12 to 16
Potassium chloride	1.33 to 1.36	Carbonated beverages	6 to 15	Jam, marmalade	60 to 70
Sodium chloride	1.33 to 1.37	Nectars	16 to 22	Flour	60 to 70
Sulfuric acid	1.33 to 1.40	Acidophilus beverages	17 to 20	Peaches	11 to 16

Note: *All values are approximations at 20°C, except where indicated.*

Viscosity Values

Centipoise* (cp)	Centistokes (cSt)	Saybolt Second Universal (SSU)	Typical Liquid
1	1	31	Water
3.2	4	40	Milk
12.6	15.7	80	Number 4 fuel oil
16.5	20.6	100	Cream
34.6	43.2	200	Vegetable oil
88	110	500	SAE 10 oil
176	220	1000	Tomato juice
352	440	2000	SAE 30 oil
880	1100	5000	Glycerine
1561	1735	8000	SAE 50 oil
1760	2200	10,000	Honey
3000	4500	20,000	Glue
5000	6250	28,000	Mayonnaise
8640	10,800	50,000	Molasses B
15,200	19,000	86,000	Sour cream
17,640	19,600	90,000	SAE 70 oil

** Centipoise = centistokes × specific gravity where specific gravity is assumed to be 0.8 (except for water). To find the exact cp of your fluid:* ***cp = cSt × (weight per gallon × 0.120)****.*

Brix Scale (sucrose)

% Brix	RI
0.0	1.3330
5.0	1.3403
10.0	1.3479
15.0	1.3557
20.0	1.3639
25.0	1.3723
30.0	1.3811
35.0	1.3902
40.0	1.3997
45.0	1.4096
50.0	1.4200
55.0	1.4307
60.0	1.4418
65.0	1.4532
70.0	1.4651
75.0	1.4774
80.0	1.4901
85.0	1.5003

Conductivity Values µΩ/cm at 77°F (25°C)

% Weight	ppm (mg/L)	NaCl	NaOH	HCl	Acetic Acid
0.0001	1	2.2	6.2	11.7	4.2
0.0003	3	6.5	18.4	35.0	7.4
0.001	10	21.4	61.1	116	15.5
0.003	30	64	182	340	30.6
0.01	100	210	603	1140	63
0.03	300	617	1780	3390	114
0.1	1000	1990	5820	11,100	209
0.3	3000	5690	16,900	32,200	368
1.0	10,000	17,600	53,200	103,000	640
3.0	—	48,600	144,000	283,000	1120
5.0	—	78,300	223,000	432,000	1230
10.0	—	140,000	358,000	709,000	1530
20.0	—	226,000	414,000	850,000	1600
30.0	—	Saturated	292,000	732,000	1405
40.0	—	Saturated	191,000	Saturated	1080
50.0	—	Saturated	150,000	Saturated	740
75.0	—	Saturated	Saturated	Saturated	168
100.0	—	Saturated	Saturated	Saturated	<1

Pressure Unit Conversion Constants

To go from	Multiply by	To get
bar	14.50	psi
bar	401.47	" of H_2O
bar	29.53	" of Hg
bar	100.0	kPa
bar	1000	mbar
bar	1019.73	cm of H_2O
bar	750.06	mm of Hg
cm of H_2O	0.014223	psi
cm of H_2O	0.3937	" of H_2O
cm of H_2O	0.028958	" of Hg
cm of H_2O	0.09806	kPa
cm of H_2O	0.9806	mbar
cm of H_2O	0.7355	mm of Hg
" of H_2O	0.036127	psi
" of H_2O	0.073554	" of Hg
" of H_2O	0.2491	kPa
" of H_2O	2.491	mbar
" of H_2O	2.5400	cm of H_2O
" of H_2O	1.8683	mm of Hg
" of Hg	0.4912	psi
" of Hg	13.596	" of H_2O
" of Hg	3.3864	kPa
" of Hg	33.864	mbar
" of Hg	34.532	cm of H_2O
" of Hg	25.400	mm of Hg
kg/cm^2	14.223	psi
kg/cm^2	393.7	" of H_2O
kg/cm^2	28.96	" of Hg
kg/cm^2	98.06	kPa
kg/cm^2	980.6	mbar
kg/cm^2	1000	cm of H_2O
kg/cm^2	735.5	mm of Hg
kPa	0.14504	psi
kPa	4.0147	" of H_2O
kPa	0.2953	" of Hg
kPa	10.000	mbar
kPa	10.1973	cm of H_2O
kPa	7.5006	mm of Hg
mbar	0.01450	psi
mbar	0.40147	" of H_2O
mbar	0.02953	" of Hg
mbar	0.100	kPa
mbar	1.01973	cm of H_2O
mbar	0.75006	mm of Hg
micron (µ)	0.00019337	psi
micron (µ)	0.0053525	" of H_2O
micron (µ)	0.00039370	" of Hg
micron (µ)	0.0013332	kPa
micron (µ)	0.013332	mbar
micron (µ)	0.013595	cm of H_2O
micron (µ)	0.001	mm Hg
mm of Hg	0.019337	psi
mm of Hg	0.53525	" of H_2O
mm of Hg	0.039370	" of Hg
mm of Hg	0.13332	kPa
mm of Hg	1.3332	mbar
mm of Hg	1.3595	cm of H_2O
oz/inch^2	0.06250	psi
oz/inch^2	1.7299	" of H_2O
oz/inch^2	0.1272	" of Hg
oz/inch^2	0.4309	kPa
oz/inch^2	4.309	mbar
oz/inch^2	4.394	cm of H_2O
oz/inch^2	3.232	mm of Hg
psi	27.680	" of H_2O
psi	2.036	" of Hg
psi	6.8947	kPa
psi	68.947	mbar
psi	70.308	cm of H_2O
psi	51.715	mm of Hg
torr	0.019337	psi
torr	0.53525	" of H_2O
torr	0.039370	" of Hg
torr	0.13332	kPa
torr	1.3332	mbar
torr	1.3595	cm of H_2O
torr	1.000	mm Hg

Regulatory Agencies and Approvals

ASCII: American Standard Code for information Interchange is a method of encoding characters into 7 or 8 binary bits (typically 7 bits plus an 8th bit for parity).

ANSI: The American National Standards Institute is a private organization that coordinates the creation of voluntary standards in a number of fields including engineering, electronics, and construction.

ASTM: The American Society for Testing and Materials is a scientific and technical organization that develops material standards and testing methods.

DIN: The Deutsche Industrie Normen is a German organization that develops standards from physical quantities engineering to material engineering.

FDA: The Food & Drug Administration is responsible for approving food and drugs for widespread use. Definitions for proper use are found in a series of regulations published annually under Government Regulations CFR 21.

ISO: The International Organization for Standardization promulgates worldwide industrial and commercial standards. ISO designations apply to quality processes or environmental performance used by a production company; the marks of conformity do not apply to products and should not appear on product packaging.

NEMA: The National Electrical Manufacturers Association is a trade association of electrical equipment manufacturers that develops and publishes many manufacturing standards.

NFPA: The National Fire Protection Association's codes and standards affect nearly every building, process, service, design and installation in the United States and many countries worldwide. NFPA develops, publishes and disseminates more than 300 codes/standards to minimize the possibility and effects of fire and other hazards.

NIST: The National Institute of Standards and Technology is a U.S. government agency that provides standard reference materials and calibration services. NIST-certified instruments are calibrated at NIST. NIST-traceable instruments are factory calibrated against NIST-certified standards.

OEM: Products used by Original Equipment Manufacturers in the design of equipment.

OSHA: The Occupational Safety and Health Administration oversees and regulates workplace health and safety.

UL: Underwriters Laboratories, Inc. is concerned with safety of personnel and property. UL listing indicates compliance with UL safety standards for electrical, mechanical and fire hazards.

USP Class VI: Safety evaluation standards of the U.S. Pharmacopoeia/National Formulary for biocompatibility with plastics.

Acid-Base Indicator Selection

Name	Visual Transition Interval (pH)	Color Change
Thymol Blue	1.2 – 2.8	Red to Yellow
Thymol Blue, Sodium Salt		Red to Yellow
Bromophenol Blue	3.0 – 4.6	Yellow to Blue
Bromophenol Blue, Sodium Salt		Yellow to Blue
Congo Red	3.0 – 5.0	Blue to Red
Dyphenycarbazone- Bromophenol Blue	3.0 – 7.0	Yellow to Blue
Methyl Orange-Xylene Cyanole Solution	3.2 – 4.2	Purple to Green
Methyl Orange Sodium Salt	3.2 – 4.4	Red to Yellow
Bromocresol Green	3.8 – 5.4	Yellow to Blue
Bromocresol Green, Sodium Salt		Yellow to Blue
Methyl Red	4.2 – 6.2	Pink to Yellow
Methyl Red Hydrochloride		Pink to Yellow
Methyl Red, Sodium Salt		Pink to Yellow
Rosolic Acid	5.0 – 8.0	Yellow to Red
Bromocresol Purple	5.2 – 6.8	Yellow to Purple
Alizarin	5.8 – 7.2	Yellow to Red
Bromothymol Blue	6.0 – 7.6	Yellow to Blue
Bromothymol Blue, Sodium Salt		Yellow to Blue
m-Nitrophenol	6.8 – 8.6	Colorless to Yellow
Phenol Red	6.8 – 8.2	Yellow to Red
Phenol Red, Sodium Salt		Yellow to Red
Cresol Red	7.0 – 8.8	Yellow to Violet Red
Thymol Blue	8.0 – 9.2	Yellow to Blue
Thymol Blue, Sodium Salt		Yellow to Blue
Phenolphthalein	8.0 – 10.0	Colorless to Red
Thymolphthalein	8.8 – 10.5	Colorless to Blue
Alizarin	11.0 – 13.0	Red to Purple
5,5'-Indigodisulfonic Acid, Disodium Salt	11.4 – 13.0	Blue to Yellow
Acid Fuchsin	12.0 – 14.0	Red to Colorless

*Trademark. See Trademark Reference.

Prices subject to change.

Concentrations of Acids and Bases

Common Commercial Strength of	Molecular Weight	Moles/Liter	Grams/Liter	Percentage by Weight	Specific Gravity
Acetic Acid, Glacial	60.05	17.4	1045	99.5	1.05
Acetic Acid	60.05	6.27	376	36	1.045
Formic Acid	46.02	23.4	1080	90	1.20
Hydrochloric Acid	36.5	11.6	424	36	1.18
		2.9	105	10	1.05
Nitric Acid	63.02	15.99	1008	71	1.42
		14.9	938	67	1.42
		13.3	837	61	1.37
Perchloric Acid	100.5	11.65	1172	70	1.67
		9.2	923	60	1.54
Phosphoric Acid	80.0	18.1	1445	85	1.70
Sulfuric Acid	98.1	18.0	1766	96	1.84
Ammonium Hydroxide	35.0	14.8	251	28	0.898
Potassium Hydroxide	56.1	13.5	757	50	1.52
		1.94	109	10	1.09
Sodium Hydroxide	40.0	19.1	763	50	1.53
		2.75	111	10	1.11

RICCA CHEMICAL COMPANY®

Additional Formulas

Compound	Lab Addition Rate	Cellar Addition Rate
Acids (Increase TA)	+0.1g/100mL	= 3.8g tartaric/gal.wine = 8.3 lb tantaric;1000 gal. wine = 7.4 lb malic/1000 gal. wine = 7.4 lb citric/1000 gal. wine
Ascorbic acid (treat disulfides, add copper and carbon afterwards)	+10ppm	= 0.1mL of 1% solution in 100mL wine = 3.78mL/gal. = 37.85g asorbic acid crustals in 1000 gal. wine
Potassium carbonate	reduce TA by 0.1g/100mL	= 2.5g/gal calcium carbonate = 5.5 lb./1000 gal. wine = 3.8g/gal potassium carbonate = 8.3 lb./1000 gal. wine
Copper (treats sulfides) DO TRIALS FIRST	+0.1ppm as Cu	= 0.15mL of 1% $CuS0_4$ solution/1000 gal. wine = 0.1mL of 0.05% $CuS0_4$ in 120mL (4 oz.) wine = 1.5g $CuS0_4$.$5H_20$ per 1000 gal. wine
Hydrogen peroxide (reduce $S0_2$) (Not legal for commercial wine)	~10ppm $S0_2$	approx 1mL H_20_2 3%/gal. wine DO TRIALS FIRST!
Potassium metabisulfite (add $S0_2$)	+100ppm $S0_2$	= .76 gal. = 760g/1000 gal. = 20g/hl = 002g/L = 7.6mL/gal. = 2mL/L of 10% KMBS solution (-5% $S0_2$)
Any soluble compound	1% +1 lb./ 1000 gal.	1g/100mL = 7.50g/750mL = 37.85g/gal. = 0.45g/gal. = 0.012g/100mL = 0.09g/750mL

Other Calculations

Normality:

Normality (1) × Volume (1) = Normality (2) × Volume (2)

OR volume to add = $\frac{\text{normality desired} \times \text{volume desired}}{\text{normality of concentrated solution}}$

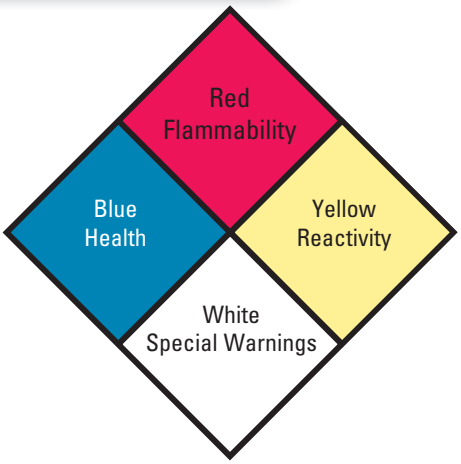
Percentage (% additions):

% (1) × Volume (1) = % (2) × Volume (2)

OR amount to add – $\frac{\text{\% desired} \times \text{total volume desired}}{\text{\% solution to be added}}$

Parts per million (ppm) = mg/L

Amount to add in grams = $\frac{(\text{gallons wine}) \times 3.785 \times \text{desired ppm}}{1000}$



NFPA Hazard Code Ratings

The National Fire Protection Association has developed a numerical rating system that reflects the health, flammability, self-reactivity and other hazards of materials, including its reaction with water, specified in NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response.

Potential hazards are evaluated based on the degree of hazard, and the numerical rating is placed inside the universal NFPA symbol.

HEALTH

Health Hazards

- **4** Very short exposure to material can cause death or major residual injury even if prompt medical treatment is given.
- **3** Short exposure to material can cause serious temporary or residual injury even if prompt medical treatment is given.
- **2** Intense or continued exposure to material can cause temporary incapacitation or possibly residual injury unless prompt medical treatment is given.
- **1** Exposure to material will cause irritation but only minor residual injury even if no treatment is given.
- **0** Exposure to materials under fire conditions will offer no hazard beyond that of ordinary combustible material.

FLAMMABILITY

Flammability

- **4** Material will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature, or will burn readily when dispersed in air.
- **3** A liquid or solid that can be ignited under almost all ambient temperature conditions.
- **2** Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
- **1** Material that must be preheated before ignition can occur.
- **0** Material that will not burn.

REACTIVITY

Reactivity

- **4** Material is readily capable of detonation or of explosive decomposition or instability at normal temperatures and pressures.
- **3** Material is capable of detonation or explosive reaction but requires a strong initiating source; or which must be heated under confinement before initiation; or may react explosively with water.
- **2** Material is normally unstable and readily undergoes violent chemical change but does not detonate. Also may react violently with water or may form potentially explosive mixtures with water.
- **1** Material is normally stable but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
- **0** Material is normally stable even under fire exposure conditions, and is not reactive with water.

SPECIAL WARNINGS

Special Warnings

- **OX** Oxidizing material
- **W** Material is hazardous when in contact with moisture or water

Examples:

1,1,1-Trichloroethane

Isopropyl ether

Calcium

Benzene

Acetic acid, glacial

Picric acid, wet, with not less than 10% water

*Trademark. See Trademark Reference.

Prices subject to change.

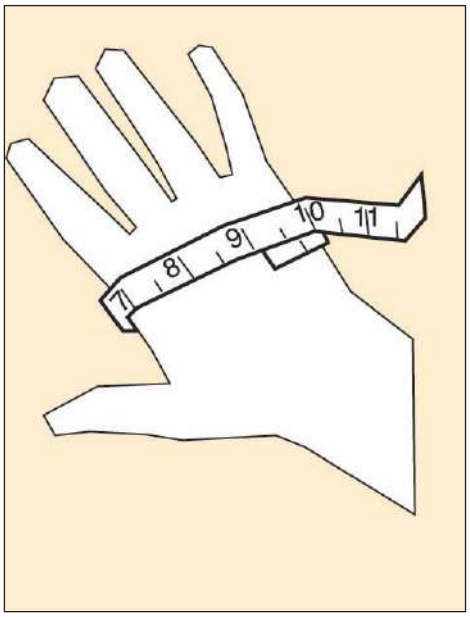
Glove Sizing Guide

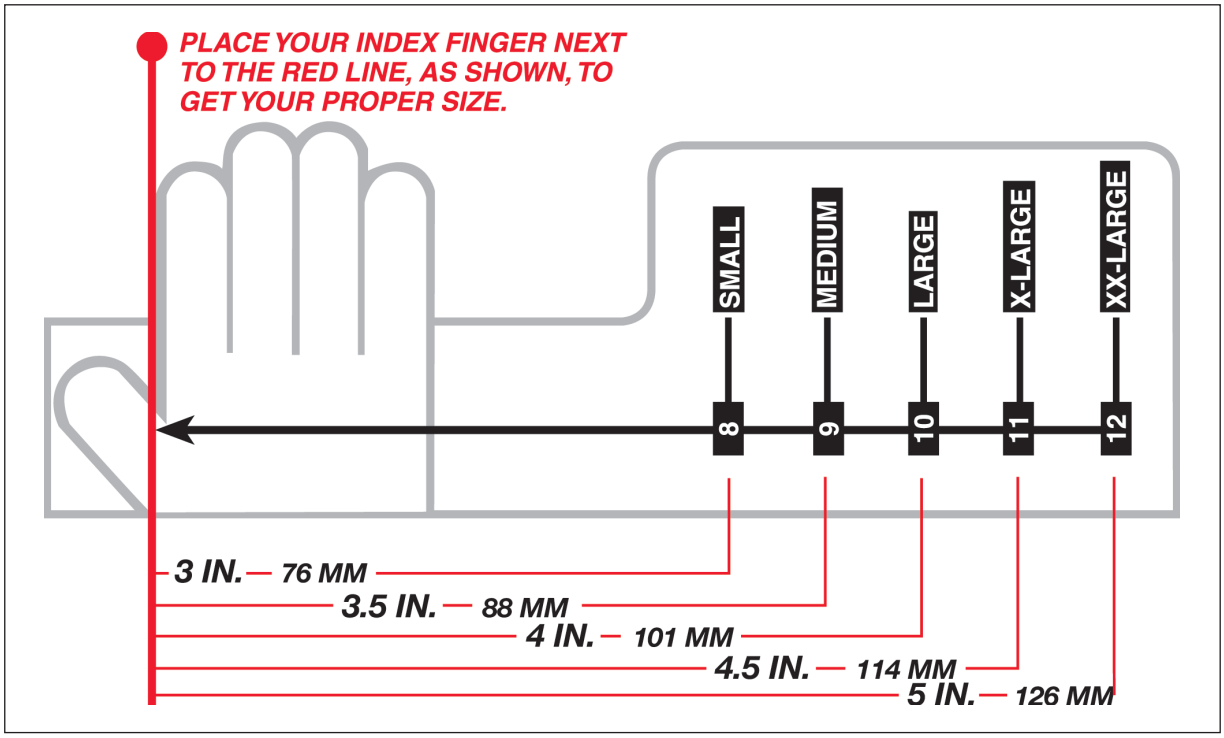
Selecting the right glove size means a comfortable, safe fit, and helps ensure that workers will wear their gloves. Gloves that are too large reduce dexterity and can get caught in machinery. Gloves that are too small are binding and cause the hand to tire more quickly.

To find your glove size, use a tape measure to determine the circumference of your hand around the palm area. If your hand circumference is 9", for example, your closest glove size is a 9. Be aware that gloves can also come in non-numerical sizes. In most cases, the size conversion chart below should be a good guide.

Non-numerical Size	Numerical Size
Extra Small (XS)	6-7
Small (S)	7-8
Medium (M)	8-9
Large (L)	9-10
Extra Large (XL)	10-11
Extra Extra Large (XXL)	11-12

Of course, there are other methods for determining glove size. For your convenience, one of our suppliers has created the following chart that bases glove size on hand width. Please feel free to use it as well, understanding that all of these resources are just guides. Glove sizing varies, depending on manufacturer, origin and style. Your exact fit will ultimately be found only through use.





Chemical Resistance and Physical Properties of Plastics

Resin Codes

ECTFE: Ethylene- chlorotrifluoroethylene copolymer
ETFE: Ethylenetetrafluoroethylene
FEP: Fluorinated ethylene propylene
FLPE: Fluorinated high-density polyethylene
FLPP: Fluorinated polypropylene
HDPE: High-density polyethylene
LDPE: Low-density polyethylene
NYL: Nylon (polyamide)
PPCO: Polypropylene copolymer
PC: Polycarbonate
PETG: Polyethylene terephthalate copolyester
PK: Polyketone
PFA: Perfluoroalkoxy
PMMA: Polymethyl methacrylate
PMP: Polymethylpentene
PP: Polypropylene
PS: Polystyrene
PSF: Polysulfone
PTFE: Polytetrafluoroethylene
PUR: Polyurethane
PVC: Polyvinyl chloride
PVDF: Polyvinylidene fluoride
TPE: Thermoplastic elastomer
XLPE: Cross-linked high-density polyethylene

Do not store strong oxidizing agents in plastic labware except if made of FEP, PFA or PTFE. Other plastics will become brittle after prolonged exposure.

Do not place plastic labware directly in a flame or on a hotplate unless specified.

Use these charts as general guides only. They are recommendations, not guarantees, of fitness for particular uses. Test materials under actual conditions first before using them for your applications.

Chemical Resistance Summary

Classes of substances; temperature 68°F (20°C)	ECTFE/ETFE	FEP/PTFE/PFA	FLPE	HDPE/XLPE	LDPE	NYL	PC	PETG	PK	PMMA	PMP	PP/PPCO	PS	PSF	PUR	PVC	PVDF	TPE†
Acids, weak or dilute	E	E	E	E	E	F	E	E	E	G	E	E	E	E	G	E	E	E
Acids*, strong or concentrated	G	E	E	E	E	N	N	N	G	N	E	E	F	G	F	E	E	F
Alcohols, aliphatic	E	E	E	E	E	N	G	E	G	N	E	E	E	G	F	E	E	E
Aldehydes	E	E	G	G	G	F	F	N	E	G	G	G	N	F	G	N	E	N
Bases	E	E	F	E	E	F	N	N	G	F	E	E	E	E	N	E	E	E
Esters	E	E	E	G	G	E	N	N	E	N	G	G	N	N	N	N	G	N
Hydrocarbons, aliphatic	E	E	E	G	F	E	F	E	E	G	F	G	N	G	E	E	E	N
Hydrocarbons, aromatic	E	E	E	G	F	E	N	N	E	N	F	F	N	N	N	N	E	N
Hydrocarbons, halogenated	E	E	G	F	N	G	N	N	E	N	N	F	N	N	N	N	N	N
Ketones	G	E	E	G	G	E	N	N	E	N	F	G	N	N	N	N	N	N
Oxidizing agents, strong	F	E	F	F	F	N	N	N	G	N	F	F	N	G	N	G	G	N

** For oxidizing acids, see table entry "Oxidizing agents, strong."* *† TPE gaskets*

E—No damage after 30 days of constant exposure.

G—Little or no damage after 30 days of constant exposure.

F—Some effect after seven days of constant exposure. Depending on the plastic, the effect may be cracking, crazing, loss of strength, or discoloration. Solvents may cause softening, swelling, and permeation losses with PPCO, PP, PMP, LDPE and HDPE; the solvent effects on these materials are normally reversible.

N—Not recommended for continuous use. Immediate damage may occur. Depending on the plastic, the effect will be severe cracking, crazing, loss of strength, discoloration, deformation, dissolution or permeation loss.

Physical Properties

Resin	Max use temp (°F/°C)	Brittleness temp (°F/°C)	Trans-parency	Sterilization					Specific gravity (g/mL)	Flexibility	Permeability (approximate) cc-mm m² - 24hr - Bar			Water absorp-tion (%)
				Autoclave	Gas	Dry heat	Radiation‡	Disinfectants			N_2	O_2	CO_2	
ECTFE, ETFE	302/150	–157/–105	Translucent	Yes	Yes	Yes	No	Yes	1.70	Rigid	—	—	—	<0.03
FEP	401/205	–454/–270	Translucent	Yes	Yes	Yes	No	Yes	2.15	Excellent	4960	11,625	34,100	<0.01
HDPE	248/120	–148/–100	Translucent	No	Yes	No	Yes	Yes	0.95	Rigid	651	2868	8990	<0.01
LDPE	176/80	–148/–100	Translucent	No	Yes	No	Yes	Yes	0.92	Excellent	2790	7750	41,850	<0.01
NYL	194/90	32/0	Translucent	No	Yes	No	Yes	Yes	1.13	Rigid	—	—	—	1.30
PPCO	250/121	–40/–40	Translucent	Yes	Yes	No	No	Yes	0.90	Moderate	698	3100	10,075	<0.02
PC	275/135	–211/–135	Transparent	Yes**	Yes	No	Yes	Yes	1.20	Rigid	775	4650	16,663	0.35
PETG	158/70	<–40/<–40	Transparent	No	Yes	No	Yes	Yes	1.27	Moderate	155	388	1240	0.15
PFA	482/250	–454/–270	Translucent	Yes	Yes	Yes	No	Yes	2.15	Excellent	4511	13,656	35,030	<0.03
PK	220	–40	Opaque	Yes	Yes	—	Yes	Some	1.24	Rigid	—	3.1	25	0.45
PMMA	122/50	—	Transparent	No	Yes	No	Yes	Some	1.20	Rigid	—	—	310	0.35
PMP	347/175	68/20	Transparent	Yes	Yes	Yes**	No	Yes	0.83	Rigid	17,050	69,750	—	0.01
PP	275/135	32/0	Translucent	Yes	Yes	No	No	Yes	0.90	Rigid	744	3720	12,400	<0.02
PS	194/90	68/20	Transparent	No	Yes	No	Yes	Some	1.05	Rigid	853	4650	17,825	0.05
PSF	329/165	–148/–100	Transparent	Yes	Yes	Yes**	Yes	Yes	1.24	Rigid	853	4650	10,850	0.30
PTFE	500/260	–450/–267	Translucent	Yes	Yes	Yes	Yes	Yes	2.15	Rigid	—	—	—	0.01
PUR	180/82	–94/–70	Transparent	Yes**††	Yes	No	Yes	Yes	1.20	Excellent	—	1162-5068	6975-25,575	0.03
PVC	158/70	–22/–30	Transparent	No**‡‡	Yes	No	No	Yes	1.34	Rigid	31-310	62	62	0.15-0.75
PVDF	230/110	–80/–62	Translucent	No	Yes	No	No	Yes	1.75	Rigid	140	217	7,828	0.05
TPE	250/121	—	Opaque	Yes	Yes	No	—	Some	1.20	Excellent	481-2248	1317-10,013	13,950-133,827	<0.01
XLPE	212/100	–180/–118	Translucent	No	Yes	No	Yes	Yes	0.93	Rigid	—	—	—	<0.01

‡ Radiation—gamma irradiation at 2.5 mrad with unstabilized plastic.
*** Sterilizing reduces mechanical strength. Do not use PC vessels for vacuum applications if they have been autoclaved.*
†† PUR tubing is not autoclavable.
‡‡ Some PVC tubing may be autoclaved; see specific product information.
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*Trademark. See Trademark Reference.
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Chemical Resistance of Labware Materials

How to Use This Chart

Use This Chart as a General Guide Only. Test each chemical first before storing in labware. The first letter of each pair represents the resistance rating at 20°C; the second at 50°C.

E—No damage after 30 days of constant exposure.

G—Little or no damage after 30 days of constant exposure.

F—Some effect after 7 days of constant exposure. Depending on the material, the effect may be cracking, crazing, loss of strength or discoloration. Solvents may cause softening, swelling, and permeation losses with PA, PP, PMP, LDPE and HDPE; the solvent effects on these materials are normally reversible.

N—Not recommended for continuous use. Immediate damage may occur. Depending on the material, the effect will be severe cracking, crazing, loss of strength, discoloration, deformation, dissolution or permeation loss.

Effects of Chemicals on Labware

Chemicals may affect the weight, strength, color, dimensions, flexibility and surface appearance of labware. The basic models of interaction that cause these changes are:
(1) chemical attack on the polymer chain, with resultant reduction in physical properties, including oxidation; reaction of functional groups in or on the chain; and depolymerization;
(2) physical change, including absorption of solvents, resulting in softening and swelling of the plastic; permeation of solvent through the plastic; or dissolution in a solvent; and
(3) stress-cracking from the interaction of a "stress-cracking agent" with molded-in or external stresses.

The reactive combination of compounds of two or more classes may cause a synergistic or undesirable chemical effect. Other factors affecting chemical resistance include: temperature, pressure, internal or external stresses (such as centrifugation), and length of exposure to and concentration of the chemical. As temperature increases, resistance to attack decreases.

*Warning!

Do not store strong oxidizing agents in plastic containers except those made of Teflon® FEP, PFA or PTFE. Other plastics will become brittle after prolonged exposure.

CHEMICAL	LDPE	HDPE	PP/PPCO	PMP	FEP/PTFE/PFA	ECTFE/ETFE	PC	PVC	PSF	PVDF	PS	NYL	Stainless Steel	Glass	Ceramic
Acetaldehyde	GN	GF	GN	GN	EE	GF	FN	GN	NN	EE	NN	EG	EE	EE	EE
Acetamide, sat.	EE	EE	EE	EE	EE	EE	NN	NN	NN	—	EE	EE	EE	EE	EE
Acetic acid, 5%	EE	EE	EE	EE	EE	EE	EG	EE	EE	EE	EG	FN	EE	EE	EE
Acetic acid, 50%	EE	EE	EE	EE	EE	EG	EG	EG	GG	EE	GG	NN	EE	EE	EE
Acetone	NN	NN	EE	EE	EE	GF	NN	NN	NN	NN	NN	EE	EE	EE	EE
Acetonitrile	EE	EE	FN	FN	EE	EE	NN	NN	NN	EE	NN	EE	EG	EE	EE
Acrylonitrile	EE	EE	FN	FN	EE	EG	NN	NN	NN	GF	NN	EG	EG	EE	EE
Adipic acid	EG	EE	EE	EE	EE	EE	EE	EG	GG	—	EE	EF	EG	EE	EE
Alanine	EE	EE	EE	EE	EE	EE	NN	NN	NN	—	EE	EG	—	—	—
Allyl alcohol	EE	EE	EE	EG	EE	EE	GF	GF	GF	—	GF	NN	EE	EG	EG
Aluminum hydroxide	EG	EE	EG	EG	EE	EE	FN	EG	GG	EE	GG	EE	EE	NN	EE
Aluminum salts	EE	EE	EE	EE	EE	EE	EG	EE	EE	EE	GG	NN	GG	EE	EE
Amino acids	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EG	—	—	—
Ammonia	EE	EE	EE	EE	EE	EE	NN	EG	GF	EE	GF	FF	EE	EE	EE
Ammonium acetate, sat.	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EG	EG	EE	EE
Ammonium glycolate	EG	EE	EG	EG	EE	EE	GF	EE	GG	EE	EE	GG	—	—	—
Ammonium hydroxide, 5%	EE	EE	EE	EE	EE	EE	FN	EE	GG	EE	EF	GF	EE	EE	EE
Ammonium hydroxide, 30%	EG	EE	EG	EG	EE	EE	NN	EG	GG	EE	GF	FN	EE	EE	EE
Ammonium oxalate	EG	EE	EG	EG	EE	EE	EE	EE	EE	EE	EE	GF	EE	EE	EE
Ammonium salts	EE	EE	EE	EE	EE	EE	EG	EG	EE	EE	GG	NN	EE	EE	EE
n-Amyl acetate	GF	EG	GF	GF	EE	EE	NN	NN	NN	EE	NN	EE	EE	EE	EG
Amyl chloride	NN	FN	NN	NN	EE	EE	NN	NN	NN	EE	NN	EG	EG	EE	EE
Aniline	EG	EG	GF	GF	EE	GN	FN	NN	NN	EF	NN	GF	EG	EE	EE
Benzaldehyde	EG	EE	EG	EG	EE	EF	FN	NN	FF	EE	NN	EG	GG	EE	EE
Benzene	FN	NN	GF	GF	EE	EG	NN	NN	NN	EE	NN	EE	GG	EE	EE
Benzoic acid, sat.	EE	EE	EG	EG	EE	EE	EG	EG	FF	EE	GG	NN	EG	EE	EE
Benzyl acetate	EG	EE	EG	EG	EE	EG	FN	NN	NN	—	NN	EG	GG	EE	EE
Benzyl alcohol	NN	FN	NN	NN	EE	EE	NN	GF	NN	EE	NN	NN	GG	EE	EE
Bromine	NN	FN	NN	NN	EE	EG	FN	GN	NN	EE	NN	NN	EE	EG	GG
Bromobenzene	NN	FN	NN	NN	EE	GN	NN	NN	NN	EE	NN	EG	GG	GG	GG
Bromoform	NN	NN	NN	NN	EE	GF	NN	NN	NN	EE	NN	FF	GG	EE	EE
Butadiene	NN	FN	NN	NN	EE	EE	NN	FN	NN	EE	NN	FF	GG	EE	EE
n-Butyl acetate	GF	EG	GF	GF	EE	EG	NN	NN	NN	EE	NN	EE	GG	EE	EE
n-Butyl alcohol	EE	EE	EE	EG	EE	EE	GF	GF	GF	EE	EG	NN	EE	EE	EE
sec-Butyl alcohol	EG	EE	EG	EG	EE	EE	GF	GG	GF	EE	GG	NN	EE	EE	EE
tert-Butyl alcohol	EG	EE	EG	EG	EE	EE	GF	EG	GF	EE	EE	NN	EE	EE	EE
Butyric acid	NN	FN	NN	NN	EE	EE	FN	GN	GG	EE	NN	FN	GG	EE	EE
Calcium hydroxide, conc.	EE	EE	EE	EE	EE	EE	NN	EE	GG	EE	GG	NN	GG	NN	EE
Calcium hypochlorite, sat.	EE	EE	EE	EG	EE	EE	FN	GF	EE	EE	GF	NN	EE	EE	EE
Carbazole	EE	EE	EE	EE	EE	EE	NN	NN	NN	—	EE	EE	—	—	—
Carbon disulfide	NN	NN	NN	NN	EE	EF	NN	NN	NN	EE	NN	EG	EE	EE	EE
Carbon tetrachloride	FN	GF	GF	NN	EE	EE	NN	GF	NN	EE	NN	EE	GG	EE	EE
Cedarwood oil	NN	FN	NN	NN	EE	EG	GF	FN	FF	EE	NN	EG	—	—	—
Cellosolve acetate	EG	EE	EG	EG	EE	EG	FN	FN	NN	EG	NN	EE	GG	EE	EE
Chlorine, 10% in air	GN	EF	GN	GN	EE	EE	EG	EE	NN	EE	FN	NN	FF	EE	EE
Chlorine, 10% (moist)	GN	GF	FN	GN	EE	EE	GF	EG	NN	EE	NN	NN	FF	EE	EE
Chloroacetic acid	EE	EE	EG	EG	EE	EE	FN	FN	NN	E–	GN	NN	GG	EE	EE
p-Chloroacetophenone	EE	EE	EE	EE	EE	EE	NN	NN	NN	—	NN	EG	—	—	—
Chloroform	FN	FN	GF	NN	EE	GF	NN	NN	NN	EE	NN	FF	EE	EE	EE
Chromic acid, 10%	EE	EE	EE	EE	EE	EE	GF	EG	NN	EE	EE	NN	GG	EE	EE
Chromic acid, 50%	EE	EE	GF	GF	EE	EE	FN	EF	NN	EG	FF	NN	FF	EE	NN
Cinnamon oil	NN	FN	NN	NN	EE	EG	GF	NN	FF	—	NN	GF	EE	—	—
Citric acid, 10%	EE	EE	EE	EE	EE	EE	EG	GG	EE	EE	EG	NN	GG	EE	EE
Cresol	NN	FN	GF	NN	EE	EG	NN	NN	NN	EE	NN	NN	EE	EE	EE
Cyclohexane	FN	FN	FN	NN	EE	EG	EG	GF	NN	EE	NN	EE	EE	EE	EE
DeCalin	GF	EG	GF	FN	EE	EE	NN	EG	NN	—	NN	EE	—	—	—
o-Dichlorobenzene	FN	FF	FN	FN	EE	EF	NN	NN	NN	EE	NN	EG	GG	EE	EE
p-Dichlorobenzene	FN	GF	GF	GF	EE	EF	NN	NN	NN	EE	NN	EG	GG	EE	EE
Diethyl benzene	NN	FN	NN	NN	EE	EG	FN	NN	NN	—	NN	EE	GG	EE	EE
Diethyl ether	NN	FN	NN	NN	EE	EG	NN	FN	NN	EG	NN	EE	GG	EE	EE
Diethyl ketone	NN	NN	GG	GF	EE	GF	NN	NN	NN	NN	NN	EE	GG	EE	EE
Diethyl malonate	EE	EE	EE	EG	EE	EE	FN	GN	FF	EG	NN	EE	—	—	—
Diethylene glycol	EE	EE	EE	EE	EE	EE	GF	FN	GG	EE	GG	EE	EE	EE	EE
Diethylene glycol ethyl ether	EE	EE	EE	EE	EE	EE	FN	FN	FF	—	NN	EE	EE	EE	EE
Dimethyl formamide	EE	EE	EE	EE	EE	GG	NN	FN	NN	NN	NN	GF	EE	EE	EE
Dimethylsulfoxide	EE	EE	EE	EE	EE	EG	NN	NN	NN	—	EG	EE	EE	EE	EE
1,4-Dioxane	GF	GG	GF	GF	EE	EF	GF	FN	GF	NN	NN	EF	GG	EE	EE
Dipropylene glycol	EE	EE	EE	EE	EE	EE	GF	GF	GG	—	EE	EE	—	—	—
Ether	NN	FN	NN	NN	EE	EG	NN	FN	NN	EG	NN	EE	EE	EE	EE
Ethyl acetate	EE	EE	EE	FN	EE	EE	NN	NN	NN	NN	NN	EE	GG	EE	EE
Ethyl alcohol (absolute)	EG	EE	EG	EG	EE	EE	EG	EG	EG	EE	FN	NN	EE	EE	EE
Ethyl alcohol, 40%	EG	EE	EG	EG	EE	EE	EG	EE	EG	EE	GF	NN	EE	EE	EE
Ethyl benzene	FN	GF	FN	FN	EE	GF	NN	NN	NN	—	NN	EE	GG	—	—
Ethyl benzoate	FF	GG	GF	GF	EE	EG	NN	NN	NN	NN	NN	EE	—	—	—
Ethyl butyrate	GN	GF	GN	FN	EE	EG	NN	NN	NN	NN	NN	EE	EG	—	—
Ethyl chloride, liquid	FN	FF	FN	FN	EE	EE	NN	NN	NN	EE	NN	GF	EE	EE	EE
Ethyl cyanoacetate	EE	EE	EE	EE	EE	EE	FN	FN	FF	NN	GN	GF	—	—	—
Ethyl lactate	EE	EE	EE	EE	EE	EE	FN	FN	FF	NN	FN	EG	—	—	—
Ethylene chloride	GN	GF	FN	NN	EE	EE	NN	NN	NN	EE	NN	EG	GG	EE	EE
Ethylene glycol	EE	EE	EE	EE	EE	EE	GF	EE	EE	EE	EE	EE	GG	EE	EE
Ethylene glycol methyl ether	EE	EE	EE	EE	EE	EE	FN	FN	FF	—	NN	EE	—	—	—
Ethylene oxide	FF	GF	FF	FN	EE	EE	FN	FN	EE	EE	NN	EE	GG	EE	EE
Fluorides	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	GG	EE	—	—	—
Fluorine	FN	GN	FN	FN	EG	EF	GF	EG	NN	—	NN	NN	EG	EE	—
Formaldehyde, 10%	EE	EE	EE	EG	EE	EE	EG	GF	GF	EE	FN	GF	EE	EE	EE

Chemical Resistance of Labware Materials *(continued)*

CHEMICAL	LDPE	HDPE	PP/PPCO	PMP	FEP/PTFE/PFA	ECTFE/ETFE	PC	PVC	PSF	PVDF	PS	NYL	Stainless Steel	Glass	Ceramic
Formaldehyde, 40%	EG	EE	EG	EG	EE	EE	EG	GF	GF	EE	NN	GF	EE	EE	EE
Formic acid, 3%	EG	EE	EG	EG	EE	EE	EG	GF	GG	EE	EG	NN	GG	EE	EE
Formic acid, 50%	EG	EE	EG	EG	EE	EE	EG	GF	GG	EE	FF	NN	GG	EE	EE
Formic acid, 98 to 100%	EG	EE	EG	EF	EE	EE	EF	FN	FF	EE	FF	NN	GG	EE	EE
Freon® TF	EG	EG	EG	FN	EE	EG	GF	GF	EG	EE	FN	—	EE	EE	EE
Fuel oil	FN	GF	EG	GF	EE	EE	EG	EE	EG	EE	NN	EE	EE	EE	EE
Gasoline	FN	GG	GF	GF	EE	EE	FF	GN	FF	EE	NN	EE	EE	EE	EE
Glacial acetic acid	EG	EE	EG	EG	EE	EE	NN	EG	FN	EG	NN	NN	EG	EE	EE
Glycerine	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE
n-Heptane	FN	GF	FF	FF	EE	EE	EG	GF	EG	EE	NN	EE	EE	EE	EE
Hexane	NN	GF	GF	FN	EE	EE	FN	GN	EG	EE	NN	EE	EE	EE	EE
Hydrochloric acid, 1 to 5%	EE	EE	EE	EG	EE	EE	EE	EE	EE	EE	EE	NN	NN	EE	EE
Hydrochloric acid, 20%	EE	EE	EE	EG	EE	EE	GF	EG	EE	EE	EE	NN	NN	EE	EE
Hydrochloric acid, 35%	EE	EE	EG	EG	EE	EE	NN	GF	EE	EE	FF	NN	NN	EE	EE
Hydrofluoric acid, 4%	EG	EE	EG	EG	EE	EE	GF	GF	GF	EE	GF	NN	NN	NN	—
Hydrofluoric acid, 48%	EE	EE	EE	EE	EE	EE	NN	GF	FN	EE	NN	NN	NN	NN	NN
Hydrogen peroxide, 3%	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	EG	NN	GG	EE	EG
Hydrogen peroxide, 30%	EG	EE	EG	EG	EE	EE	EE	EE	EE	EE	EG	NN	GG	EE	EG
Hydrogen peroxide, 90%	EG	EE	EG	EG	EE	EE	EE	EG	EE	E-	EG	NN	GG	EE	EG
Isobutyl alcohol	EE	EE	EE	EG	EE	EE	EG	EG	EG	EE	GG	NN	EE	EE	EE
Isopropyl acetate	GF	EG	GF	GF	EE	EG	NN	NN	NN	—	NN	EE	GG	EE	EE
Isopropyl alcohol	EE	EE	EE	EE	EE	EE	EE	EG	EE	EE	EG	NN	GG	EE	EE
Isopropyl benzene	FN	GF	FN	NN	EE	EG	NN	NN	NN	—	NN	EG	—	—	—
Kerosene	FN	GG	GF	GF	EE	GF	EE	EE	GF	EE	NN	EE	EE	EE	EE
Lactic acid, 3%	EG	EE	EG	EG	EE	EE	EG	GF	EE	EG	GG	NN	GG	EE	EE
Lactic acid, 85%	EE	EE	EG	EG	EE	EG	EG	GF	EE	GF	GG	NN	GG	EE	EE
Methoxyethyl oleate	EG	EE	EG	EG	EE	EE	FN	NN	NN	—	NN	EG	—	—	—
Methyl alcohol	EE	EE	EE	EE	EE	EE	GF	EF	GF	EE	FN	NN	EE	EE	EE
Methyl ethyl ketone	NN	NN	EG	NN	EE	GF	NN	NN	NN	NN	NN	EE	EE	EE	EE
Methyl isobutyl ketone	NN	NN	GF	FF	EE	GF	NN	NN	NN	GN	NN	EE	GG	EE	EE
Methyl propyl ketone	GF	EG	GF	FF	EE	EG	NN	NN	NN	NN	NN	EE	EE	—	—
Methylene chloride	FN	FN	FN	FN	EE	GG	NN	NN	NN	NN	NN	GF	GG	EE	EE
Mineral oil	GN	EE	EE	EG	EE	EE	EG	EG	EE	EE	EE	EE	EE	EE	EE
Nitric acid, 1 to 10%	EE	EE	EE	EE	EE	EE	EG	EG	EF	EE	GN	NN	EE	EE	EE
Nitric acid, 50%	GN	GN	FN	GN	EE	EE	GF	GF	GF	EG	NN	NN	EG	EG	NN
Nitric acid, 70%	FN	GN	NN	GF	EE	EE	NN	FN	NN	GF	NN	NN	GG	EE	NN
Nitrobenzene	NN	FN	NN	NN	EE	EG	NN	NN	NN	EN	NN	FF	GG	EE	EE
n-Octane	EE	EE	EE	EE	EE	EE	GF	FN	GF	EE	NN	EE	EE	EE	EE
Orange oil	FN	GF	GF	FF	EE	EE	FF	FN	FF	EE	NN	GF	EE	EE	EE
Ozone	EG	EE	EG	EE	EE	EE	EG	EG	EE	EE	FF	EG	EG	—	—
Perchloric acid	GN	GN	GN	GN	GF	EG	NN	GN	NN	EE	GF	NN	FF	EE	EE
Perchloroethylene	NN	NN	NN	NN	EE	EE	NN	NN	NN	EE	NN	EE	EG	EE	EE
Phenol, crystals	GN	GF	GN	FG	EE	EE	NN	FN	FF	EE	NN	NN	GG	EE	EE
Phosphoric acid, 1 to 5%	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	GG	NN	NN	EE	EE
Phosphoric acid, 85%	EE	EE	EG	EG	EE	EE	EG	EG	EE	EE	EG	NN	NN	EE	EE
Pine oil	GN	EG	EG	GF	EE	EG	GF	FN	FF	EE	NN	GF	EE	—	—
Potassium hydroxide, 1%	EE	EE	EE	EE	EE	EE	FN	EE	EE	EE	GG	FF	EG	GF	GF
Potassium hydroxide, conc.	EE	EE	EE	EE	EE	EE	NN	EG	EE	EG	GG	FF	EG	NN	NN
Propane gas	NN	FN	NN	NN	EE	EE	FN	EG	FF	EE	NN	FF	GF	NN	NN
Propylene glycol	EE	EE	EE	EE	EE	EE	GF	FN	GG	—	EE	EE	GG	EE	EE
Propylene oxide	EG	EE	EG	EG	EE	FN	GF	FN	GG	FN	NN	EE	EE	—	—
Resorcinol, sat.	EE	EE	EE	EE	EE	EE	GF	FN	NN	—	GF	NN	—	—	—
Resorcinol, 5%	EE	EE	EE	EE	EE	EF	GF	GN	NN	—	GF	NN	—	—	—
Salicylaldehyde	EG	EE	EG	EG	EE	EN	GF	FN	FF	EG	NN	EG	—	—	—
Salicylic acid, powder	EE	EE	EE	EG	EE	EE	EG	GF	EE	EE	EE	EG	GG	EE	EE
Salicylic acid, sat.	EE	EE	EE	EE	EE	EE	EG	GF	EE	EE	EG	NN	GG	EE	EE
Salt solutions, metallic	EE	EE	EE	EE	EE	EE	EE	EE	EE	EE	GG	FF	EG	—	—
Silver acetate	EE	EE	EE	EE	EE	EE	EG	GG	EE	EE	GG	EF	—	—	—
Silver nitrate	EG	EE	EG	EE	EE	EE	EE	EG	EE	EE	GF	NN	GG	EE	EE
Sodium acetate, sat.	EE	EE	EE	EE	EE	EE	EG	GF	EE	EE	GG	FF	GG	EE	EE
Sodium hydroxide, 1%	EE	EE	EE	EE	EE	EE	FN	EE	EE	EE	GG	EE	GG	GE	GE
Sodium hydroxide, 50% to sat.	GG	EE	EE	EE	EE	EE	NN	NN	EG	EG	EE	GF	GF	NN	NN
Sodium hypochlorite, 15%	EE	EE	GF	EE	EE	EE	GF	EE	EE	EE	EE	NN	NN	EE	EG
Stearic acid, crystals	EE	EE	EE	EE	EE	EE	EG	EG	GG	EE	EG	EF	EG	EE	EE
Sulfuric acid, 1 to 6%	EE	EE	EE	EE	EE	EE	EE	EG	EE	EE	EG	NN	FN	EE	EG
Sulfuric acid, 20%	EE	EE	EG	EG	EE	EE	EG	EG	EE	EE	EG	NN	NN	EE	GG
Sulfuric acid, 60%	EG	EE	EG	EG	EE	EE	GF	EG	EE	EE	GN	NN	NN	EE	NN
Sulfuric acid, 98%	GG	GG	FN	GG	EE	EE	NN	GN	NN	EG	NN	NN	NN	EE	NN
Sulfur dioxide, liq., 46 psi	NN	FN	NN	NN	EE	EG	GN	FN	GG	EE	NN	NN	FN	NN	NN
Sulfur dioxide, wet or dry	EE	EE	EE	EE	EE	EE	EG	EG	GG	GE	FN	NN	FN	EE	EE
Sulfur salts	FN	GF	FN	FN	EE	EG	FN	NN	GG	GF	NN	NN	—	—	—
Tartaric acid	EE	EE	EE	EE	EE	EE	EG	EG	EE	EE	GG	EF	FF	EE	EE
Tetrahydrofuran	FN	GF	GF	FF	EE	GF	NN	NN	NN	FN	NN	EE	EE	EE	EE
Thionyl chloride	NN	NN	NN	NN	EE	EE	NN	NN	NN	—	NN	NN	NN	EE	EE
Toluene	FN	GG	GF	FF	EE	EE	FN	NN	NN	EE	NN	EE	EE	EE	EE
Tributyl citrate	GF	EG	GF	GF	EE	EG	NN	FN	FF	EF	NN	EG	—	—	—
Trichloroethane	NN	FN	NN	NN	EG	NN	NN	NN	NN	—	NN	EE	GG	EE	EE
Trichloroethylene	NN	FN	NN	NN	EE	EG	NN	NN	NN	EE	NN	EE	GG	EE	EE
Triethylene glycol	EE	EE	EE	EE	EE	EE	EG	GF	EE	—	EG	EE	—	—	—
Tripropylene glycol	EE	EE	EE	EE	EE	EE	EG	GF	EE	—	EE	EE	—	—	—
Turpentine	FN	GG	GF	FF	EE	EE	FN	GF	NN	EE	NN	EE	EE	EE	EE
Undecyl alcohol	EF	EG	EG	EG	EE	EG	GF	EF	FF	EE	GG	EE	—	—	—
Urea	EE	EE	EE	EG	EE	EE	NN	GN	FF	EE	EG	EE	GG	EE	EE
Vinylidene chloride	NN	FN	NN	NN	EE	GF	NN	NN	NN	EE	NN	NN	GG	—	—
Xylene	GN	GF	FN	FN	EE	EG	NN	NN	NN	EE	NN	EE	GG	EE	EE
Zinc stearate	EE	EE	EE	EE	EE	EE	EE	EG	EE	EE	EE	EE	EE	EE	EE

***Warning!**

The plastic resin information in these tables (does not include SS, glass or ceramic) has been provided by Nalgene and is reprinted with their permission. It should be used ONLY as a guide for selecting labware for testing.

Test the labware for 72 hours under expected or proposed conditions of use, BEFORE putting into service. Test with care to avoid injury or property damage.

Fisher Scientific does not warrant (neither express nor implied) that the information in these tables is accurate or complete or that any material is suitable for any purpose.

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Prices subject to change.

Septum Selection Guide

Septa for use with general chromatography vials

PTFE/Red Rubber Septa: (PTFE/RR)

PTFE/Red Rubber septa are the most popular and economical choice for general GC applications. Used primarily for routine analysis in gas chromatography with FID, TCD and FPD detectors, PTFE/Red Rubber septa offer moderate resealability and excellent chemical inertness before puncture. The low durometer of red rubber allows for easy needle penetration even with thin bore GC needles. PTFE/Red Rubber septa are not recommended for multiple injections or retention of samples for further analysis.

NOTE: C4000-30 and C4000-51 Series feature high-quality red rubber with a thin 0.003" layer of PTFE. C4011-1A, C40911-98 Series, C4011-51 Series, C4008-1A Series, and C4008-98 Series feature high-quality medium durometer red rubber with a thin (0.015") layer of PTFE.

PTFE/High Performance Red Rubber

PTFE Red Rubber is a highly pure red rubber septum that provides a reduced background level for specific GC applications, employing sensitive detectors such as ECD or NPD. PTFE Red Rubber has resealing characteristics similar to PTFE/Red Rubber and is pre-inserted into an aluminum seal.

PTFE/Silicone Septa: (T/S)

High-quality, pure silicone is laminated to 0.005" thick PTFE for a pure, greatly inert septum with excellent resealing characteristics even after repeated punctures. PTFE/Silicone septa are ideal for use in most HPLC applications and GC applications where resealability and purity are critical.

PTFE/Silicone/PTFE Septa: (T/S/T)

A layer of 0.003" thick PTFE is laminated to each side of high-purity, medium durometer silicone to form a septum that is resistant to coring, but still maintains good resealing characteristics. T/S/T septa are recommended for the most critical applications such as ultratrace analysis, where there is a longer time between injections, or for internal standard methods. T/S/T septa provide superior performance with Agilent 1050, 1090, 1100, or any autosampler employing a large diameter, blunt-tip needle.

PTFE Septa

A solid disk of 0.010" thick PTFE offers superior chemical inertness against the most aggressive solvents. The thin membrane allows for easy penetration by most needles. PTFE septa are not resealable and should be used with relatively short cycle times and single injection methods.

Pre-slit PTFE/Red Rubber Septa:

A PTFE/Red Rubber septum is comprised of a thin 0.003" PTFE layer laminated to standard red rubber and slit through the center for easier needle penetration and to release the vacuum that forms when a large volume of sample is withdrawn from a vial. This septum provides chromatographic characteristics similar to that of a septum without a slit, except that the ability to withstand exposure to aggressive solvents is slightly lessened.

Pre-slit PTFE/Silicone Septa:

A PTFE/Silicone septum is provided with a thin 0.005" PTFE layer laminated to highly pure silicone and slit through the center for easier needle penetration and to release the vacuum that forms when a large volume of sample is withdrawn from a vial. This septum provides chromatographic characteristics similar to that of a septum without a slit, except that the ability to withstand exposure to aggressive solvents is slightly lessened. Pre-slit septa are highly recommended for Shimadzu, Hitachi and other autosamplers with thin gauge needles.

Polyethylene (PE) Septa:

Chemically resistant polyethylene septa are usually molded into single-piece caps. The surface for needle penetration is 0.01" thick, allowing for use with thin gauge needles. Polyethylene septa are not resealable and are intended for single use.

Polypropylene (PP) Septa:

Chemically resistant polypropylene septa are available molded into single piece caps or as 0.01" thick disks. The surface for needle penetration is 0.01" thick, allowing for use with thin gauge needles. Polypropylene septa are not resealable and are intended for single use.

Viton Septa:

Viton offers the maximum chemical resistance for a wide variety of solvents. Viton has limited resealing capacity and should not be used for applications requiring multiple injections with long run times. Viton septa are highly recommended for use with chlorinated solvents. Due to their intrinsic hardness, Viton septa are not suitable for use with 32 gauge needles.

20mm Headspace Septa

Gray Butyl Stopper: (C4020-30)

An economical septum for lower temperature (125°C) or low-pressure applications. Gray Butyl stoppers do not provide a PTFE barrier and are not suitable for use with alkanes, benzene, chlorinated solvents or cyclohexane.

Ivory PTFE/Red Rubber Septa: (C4020-34)

Good solvent resistance, good resealing characteristics, resistant to coring, and feature an operating temperature range of –40° to +100°C. An economical choice where a PTFE barrier is desired.

PTFE/White Silicone PurePack Septa: (C4020-32)

Excellent choice for volatiles. Septa are packed in a glass PurePak jar to assure low background, low permeability, and the highest performance of any headspace septum. PTFE/Silicone septa provide excellent resealing characteristics and broad chemical compatibility. The recommended operating temperature range is –60° to +200°C.

Gray PTFE/Molded Black Butyl Septa: (C4020-36)

C4020-36 is a molded septum featuring a PTFE-faced center surface that does not extend to the edges of the septum. The PTFE center area provides good resistance to a wide variety of solvents. The center puncture area is resistant to coring and will reseal after several punctures. The black butyl outer sealing edge conforms well to the rim of the vial affecting a more positive seal. The operating temperature range for this septum is –20° to +125°C.

Black Rubber Septa: (C4020-40)

Black Rubber septa are molded from a higher density rubber compound compared to the standard red rubber. This septum has characteristics similar to the Gray Butyl stopper with a slightly smaller temperature range of –20° to +100°C. The Black Rubber septum is an economical choice for applications where reduced levels of vapor penetration are desired.

Aluminum Foil/Silicone (High Temperature Septum): (C4020-37)

Aluminum backing on this septum provides an effective vapor barrier along with high temperature compatibility. The silicone layer is highly resealable and stable at high temperatures. The operating temperature range for this septum is –60° to +220°C.

Syringe Filter Membrane Compatibility Chart

Use the information in this table to determine the ability of a specific syringe filter membrane to withstand exposure to a solvent. All concentrations are 100% unless noted.

LEGEND

C = Compatible
LC = Limited Compatibility (Membrane may swell and shrink)
IC = Incompatible (Not Recommended)
ND = No Compatibility Data Currently Available
PTFE = Polytetrafluoroethylene (Teflone)
PVDF = Polyvinylidene
PES = Polyethersulfone
CA = Cellulose Acetate
RC = Regenerated Cellulose
PP = Polypropylene
GMF = Glass MicroFiber

Chemical	Nylon	PTFE	PVDF	PES	CA	RC	PP	GMF
ACIDS								
Acetic, Glacial	LC	C	C	C	IC	C	C	C
Acetic, 25%	C	C	C	C	CA	C	C	C
Hydrochloric, Concentrated	IC	C	C	C	IC	IC	C	C
Hydrochloric, 25%	IC	C	C	C	IC	IC	C	C
Sulfuric, Concentrated	IC	C	IC	IC	IC	IC	C	C
Sulfuric, 25%	IC	C	C	C	IC	LC	C	C
Nitric, Concentrated	IC	C	C	IC	IC	IC	C	LC
Nitric, 25%	IC	C	C	C	IC	IC	C	LC
Phosphoric, 25%	IC	C	ND	ND	C	LC	C	ND
Formic, 25%	IC	C	ND	ND	LC	C	C	C
Trichloroacetic, 10%	IC	C	ND	ND	C	C	C	ND
ALCOHOLS								
Methanol, 98%	C	C	C	C	C	C	C	C
Ethanol, 98%	C	C	C	C	C	C	C	C
Ethanol, 70%	LC	C	C	C	C	C	C	C
Isopropanol	C	C	C	C	C	C	C	C
n-Propanol	C	C	C	C	C	C	C	C
Amyl Alcohol (Butanol)	C	C	C	C	C	C	C	C
Benzyl Alcohol	C	C	C	ND	LC	C	C	IC
Ethylene Glycol	C	C	C	C	C	C	C	C
Propylene Glycol	C	C	C	C	LC	C	C	C
Glycerol	C	C	C	C	C	C	C	C
ALKALIES								
Ammonium Hydroxide, 25%	C	C	LC	C	C	LC	C	C
Sodium Hydroxide, 3N	C	C	C	C	IC	LC	C	IC
AMINES AND AMIDES								
Dimethyl Formamide	LC	C	IC	IC	IC	LC	C	C
Diethylacetamide	C	C	ND	ND	IC	C	ND	C
Triethanolamine	C	C	ND	ND	C	C	ND	ND
Aniline	ND	C	ND	ND	IC	C	ND	ND
Pyridine	C	C	IC	IC	IC	C	IC	C
Acetonitrile	C	C	C	LC	IC	C	C	C

*Trademark. See Trademark Reference.
Prices subject to change.

Syringe Filter Membrane Compatibility Chart *(Continued)*

Chemical	Nylon	PTFE	PVDF	PES	CA	RC	PP	GMF
ESTERS								
Ethyl Acetate/Methyl Acetate	C	C	C	IC	IC	C	LC	C
Amyl Acetate/Butyl Acetate	C	C	IC	IC	LC	C	LC	C
Propyl Acetate	C	C	IC	IC	LC	C	LC	ND
Propylene Glycol Acetate	ND	C	ND	IC	IC	C	C	ND
2-Ethoxyethyl Acetate	ND	C	ND	IC	LC	C	ND	ND
Methyl Cellusolve	ND	C	ND	IC	IC	C	C	C
Benzyl Benzoate	C	C	ND	IC	C	C	ND	ND
Isopropyl Myristate	C	C	ND	IC	C	C	ND	ND
Tricresyl Phosphate	ND	C	ND	IC	C	C	ND	ND
HALOGENATED HYDROCARBONS								
Methylene Chloride	LC	C	C	IC	IC	C	LC	C
Chloroform	C	C	C	IC	IC	C	LC	C
Trichloroethylene	C	C	C	IC	C	C	C	C
Chlorobenzene	C	C	C	LC	C	C	C	C
Freon®	C	C	C	LC	C	C	C	C
Carbon Tetrachloride	C	C	C	IC	LC	C	LC	C
HYDROCARBONS								
Hexane/Xylene	C	C	C	IC	C	C	IC	C
Toluene/Benzene	C	C	C	IC	C	C	IC	C
Kerosene/Gasoline	C	C	C	LC	C	C	LC	ND
Tetralin/Decalin	ND	C	C	ND	C	C	ND	ND
KETONES								
Acetone	C	C	IC	IC	IC	C	C	C
Cyclohexanone	C	C	IC	IC	IC	C	C	C
Methyl Ethyl Ketone	C	C	LC	IC	LC	C	LC	C
Isopropylacetone	C	C	IC	IC	C	C	ND	C
Methyl Isobutyl Ketone	ND	C	LC	IC	ND	C	LC	C
ORGANIC OXIDES								
Ethyl Ether	C	C	C	C	C	C	LC	ND
Dioxane	C	C	LC	IC	LC	C	C	C
Tetrahydrofuran	C	C	LC	IC	LC	C	C	C
Triethanolamine	C	C	ND	ND	C	C	ND	ND
Dimethylsulfoxide (DMSO)	C	C	IC	IC	LC	C	C	C
Isopropyl Ether	ND	C	C	C	C	C	C	ND
MISCELLANEOUS								
Phenol, Aqueous Solution, 10%	ND	C	LC	IC	IC	IC	C	C
Formaldehyde Aqueous Solution, 30%	C	C	C	C	C	LC	C	C
Hydrogen Peroxide, 30%	C	C	ND	ND	C	C	ND	ND
Silicone Oil/Mineral Oil	ND	C	C	C	C	C	C	C

GC Troubleshooting

The following table lists common GC problems encountered, the possible causes and solutions for your quick reference.

Symptom	Cause	Recommended Solutions
BASELINE RELATED PROBLEMS		
Baseline Drifting	Accumulation of stationary phase.	Remove the end section of the column.
	Carrier gas cylinder pressure too low to allow control.	Replace the carrier gas cylinder. Increase the pressure.
	Drifting carrier gas or combustion gas flows.	Check the gas controllers.
	Accumulation of impurities in the column.	Check impurity levels in the gas source. Use correct gas purity. Replace or install appropriate Gas Filters.
Baseline Falling	Carrier gas leak in the system.	Perform a leak test. Check the tightness of the connections on the carrier gas line.
	Column is baking out.	Allow enough time for the column to stabilize.
Baseline Falling Away Slowly After a High Initial Value	Purge valve left closed during acquisition.	Alter the GC program. See your GC user manual for details.
	Inadequate purge flow rate.	Increase the purge flow rate.
	Purge valve left closed for too long.	Shorten the purge time.
	Solvent tail peak.	Increase the solvent delay. Shorten the purge time.
	Pre-filters are dirty. (when using a quadrupole MS detector)	Contact your service representative.
Baseline Rising	Accumulation of impurities in the column.	Check impurity levels in the gas source. Use correct gas purity. Replace or install appropriate Gas Filters.
	Contaminated detector.	Check the detector and clean it.
	There is bleeding from the GC column.	Condition column. Change the column.
	Air is leaking into the system.	Trace and repair the leak.
Baseline Rising Under Temperature Program Control	Column contaminated.	Recondition the column.
Baseline High Standing Current	Carrier gas flow rate too high.	Reduce the carrier gas flow.
	Column contaminated.	Recondition the column.
	Contaminated gases.	Replace gas cylinders. Replace the gas filters.
	Excessive column stationary phase bleeding.	Check the oven temperature, ensuring that it doesn't exceed the column upper limit. Recondition the column. Replace the column.
	Loose connections.	Ensure that all interconnections and screw connections are tight.
Baseline Irregular Shape: Dip After Solvent Peak	Detector contaminated.	Bake out the detector. Clean the detector. Install a high temperature column.
Baseline Irregular Shape: S-shaped	Excessive column bleed during column temperature programming.	Reduce the upper column temperature. Bake out the column.
	Oxygen contamination is decomposing the stationary phase.	Install oxygen filters in the carrier gas line. Check the pneumatic and inlet systems for leaks.
Baseline High Frequency Noise	Contaminated detector.	Isolate the detector from the electronics. If noise disappears, clean the collector.
	Combustion gas flow too low or too high.	Check the detector gas flows.
	Column contaminated.	Condition the column.
	Contaminated detector gas supply.	Check the gas purity and install appropriate filters.
	Detector temperature higher than column maximum temperature.	Reduce the detector temperature to the column temperature upper limit.
	Loose column fittings.	Tighten fittings accordingly.
Baseline Spiking	Column too close to flame. (when using an FID)	Lower the column to the correct position (2 - 3mm below the tip of the jet).
	Dirty jet or detector.	Isolate the detector from the electronics. If the spiking disappears, clean the jet and the collector.
	FID temperature too low. (when using an FID)	Increase the FID temperature to at least 150°C.
PEAK-RELATED PROBLEMS		
Peaks Broadening	Column flow too high.	Reduce the flow to slightly above optimum.
	Column flow too low.	Increase the flow to slightly above optimum.
	Split flow too low in split injection.	Increase the flow to 40 - 50mL/min.
	Column performances degraded.	Test the column at the optimum flow rate.
	Dirty injector.	Clean or replace the liner.
	Stationary phase accumulated in the outlet.	Remove the last two coils from the column.
	Detector base body temperature too low.	Increase the temperature to 5°C below the column maximum.
	The sample is overloading the column.	Reduce the amount and/or concentration of the sample.

If you need more assistance or information on specific detection systems, please contact your Fisher Scientific Sales Representative and request our Troubleshooting Guide.

*Trademark. See Trademark Reference.

Prices subject to change.

GC Troubleshooting *(Continued)*

Symptom	Cause	Recommended Solutions
PEAK-RELATED PROBLEMS		
Double Peaks	Injection speed too low.	Inject more rapidly in a smooth motion.
	Wrong autosampler injection speed or mode.	Use a higher speed.
Peak Fronting	Column or detector overloaded.	Decrease the injected amount. Decrease the analyte concentrations. Increase the split ratio.
	Column temperature too low.	Increase the temperature.
	Stationary phase too thin.	Use a thicker-film column.
	Poor injection technique.	Repeat, with better injection technique.
Ghost Peaks	Contaminated carrier gas.	Replace the cylinder. Replace the filter. (see page 287-289).
	Contamination from laboratory glassware.	Ensure the glassware is clean and contamination-free.
	Decomposition of injected sample.	Decrease the injection port temperature. Use the on-column injection technique.
	Dirty injection solution.	Carry out adequate clean-up of sample prior to injection.
Broad Ghost Peaks	Contaminated inlet or pneumatics.	Remove the column and bake out the inlet. Use a high-quality septum. Replace the split vent filter. Install an in-line filter between the pneumatics and the inlet.
	Incomplete elution of previous sample.	Increase the final oven program temperature or total run time. Increase the column flow rate.
Irregular, Chair-shaped Peaks	Solvent flooding of column.	Increase the initial oven temperature. Reduce the injection volume (on-column). Install a retention gap (on-column).
No Peaks After Solvent Peak	Carrier gas flow too high.	Reduce the carrier gas flow rate.
	Combustion gas flow incorrect.	Check the combustion gas flow.
	Detector contaminated.	Bake out or clean the detector.
	FID flame extinguished by solvent peak.	Check the detector temperature and that flame is lit.
	Too much sample injected.	Inject less sample.
	Incorrect column position in S/SL injector (too high).	Check the column position.
No Peaks at All	Clogged syringe needle.	Replace or repair the syringe.
	Column broken or disconnected.	Check the column and connections.
	Defective electrometer or amplifier.	Check electrometer or amplifier and associated connections. Replace if required.
	Defective recording device.	Replace the recording device.
	FID flame is out.	Clean FID jet, check detector gas flows and re-light flame.
	Incorrect column position in S/SL injector (too high).	Check the column position.
Sample Peak Tailing	Column degradation causing activity.	Inject a test mixture and evaluate the column.
	Column/oven temperature too low.	Increase the column/oven temperature. Do not exceed the recommended maximum temperature for the stationary phase.
	Column contaminated at inlet.	Trim first 10-20cm from column and re-install in injector.
	Glass wool or inlet liner causing activity.	Replace with fresh silanized wool and a clean inlet liner.
	Inlet temperature too low.	Increase the inlet temperature.
	Poor or obstructed column connections.	Remake the column inlet connection.
	Wrong stationary phase.	Replace the column according to the column manufacturer's literature.
Solvent Peak Tailing	Incorrect column position in inlet.	Reinstall the column.
	Initial oven temperature too high (On Column).	Reduce the initial oven temperature.
	Septum purge flow too low and/or split/splitless vent flow too low	Check and adjust the septum purge and vent flows.
	Too large injection size.	Reduce the injection size.
Unresolved Peaks	Carrier gas flow rate too high.	Reduce the carrier gas flow rate.
	Column deteriorated.	Replace the column.
	Column temperature too high.	Lower the column oven temperature.
	Column too short.	Use a longer column.
	Incorrect column choice.	Install a suitable column.
	Injection technique is not adequate.	Choose a correct injection technique.
Discrete High-intensity Contaminant Peaks	Bleed from the GC column.	Condition or change the column.
	Bleed from the septum.	Replace the septum.
	Sample vial septa are contaminating the sample.	Discard sample. Store samples upright, in a refrigerator. Use Teflon™ faced septa, with the Teflon facing downwards (i.e. towards the sample).

If you need more assistance or information on specific detection systems, please contact your Fisher Scientific Sales Representative and request our Troubleshooting Guide.

GC Troubleshooting *(Continued)*

Symptom	Cause	Recommended Solutions
RESULTS-RELATED PROBLEMS		
Low Reproducibility of Peak Area	Concentration not compatible with the dynamic range of the detection system.	Ensure that the sample concentration is suitable for the detection system.
	Inappropriate injection technique.	Try a different injection technique.
	Injection parameters inappropriate.	Check the injection temperature. Check the flow rates.
	Non reproducible sample injection technique.	Evaluate the sample preparation sequences. Compare the results with a series of standard injections.
	Leaking syringe or septum.	Check and replace the syringe at regular intervals. Check and replace septum at regular intervals.
	Leaks at the injection.	Check the column connections. Run a leak check.
	Poor injection technique.	Carefully meter the injected amount. Use a clean, good-quality syringe.
	Poor split flow or ratio control.	Monitor the flow. Replace the in-line filter.
Poor Sensitivity with Gas Line. Check the injector/Column Ferrules.	Carrier gas flow rate too low.	Increase the carrier gas flow rate. Locate and remove possible obstructions in the carrier
Poor Sensitivity with Increased Retention Time	Oven or injector parameters are not optimized.	Adjust the oven parameters. Adjust the injector parameters.
Normal Retention Time	Leaks in the GC carrier gas line.	Run a leak test and correct leaks.
	Syringe leaks during injection.	Replace syringe or piston seals, if applicable.
	Split injection temperature too low.	Increase the temperature of the injector.
	Column is in poor condition, or wrong column type used.	Condition the columns. Change the column.
Retention Times Decreasing	Stationary phase deteriorated by oxygen and/or water.	Use a carrier gas free of oxygen and water. Replace or install appropriate gas filters.
	Stationary phase loss due to column bleeding.	Reduce the column temperature.
Retention Times Increasing	Increasing carrier leakage.	Check the septum and column connections.
	Carrier gas supply running out.	Replace the bottle.

If you need more assistance or information on specific detection systems, please contact your Fisher Scientific Sales Representative and request our Troubleshooting Guide.

SPE Troubleshooting

Symptom	Cause	Recommended Solutions
Poor Recovery of Analytes	Improper conditioning.	Condition column according to phase: Reversed phase: use methanol, acetonitrile or isopropanol followed by solvent used for sample solution. Ion exchange: use methanol or isopropanol followed by a buffer at a pH which charges both sorbent and analyte.
	Analytes have a greater affinity for the sample solution than for the column.	Choose a column having a greater selectivity for analytes. Change pH of sample to increase affinity of analytes to sorbent. Change polarity of sample solvent to produce lower affinity for the analytes.
	Improper washing.	Wash column using appropriate wash solution.
	Poor elution.	Increase eluent volume, increase eluent strength. Decrease elution strength of washing solvent.
Analytes Not Eluted from Column	Analytes have stronger interaction with column sorbent than with eluting solvent.	Choose a column that is less retentive for the analytes.
	Elution volume is too low.	Increase the elution volume.
	Elution solvent is too weak to disrupt analyte interaction with the column.	Change pH of eluting solvent to ensure greater affinity for the analytes. Change polarity of eluting solvent to ensure greater affinity for the analytes.
Inconsistent Extraction	Column dries before sample added.	Re-condition column.
	Capacity of column is exceeded.	Decrease sample volume. Use a column with a larger amount of sorbent.
	Sample loading flow rate is too high.	Decrease flow rate.
	Elution flow rate is too fast.	Allow elution solvent to seep into column before aspirating or forcing through column. Apply in two separate aliquots versus a single aliquot.
	Using too strong a wash solution to remove interferences.	Reduce strength of wash solvent.
	Elution volume is too small.	Increase volume of elution solvent.
Interferences Eluted with Analytes	Interferences are extracted at the same time as analytes.	Selectively wash interferences from column prior to elution. Use a column which retains the analytes more than the interferences.
	Interference is due to leachables from column.	Wash column with eluting solvent prior to conditioning.
Slow Column Flowrate	Excessive particulate matter in sample.	Filter or centrifuge sample.
	Sample solution is too viscous.	Dilute sample with a weak solvent.
	Inadequate vacuum.	Increase vacuum.
Large Volume of Sample Required	Sample volumes larger than extraction column capacity.	Use larger extraction column volumes.
Low Throughput	Improper methodology.	Consider a different extraction mechanism sorbent or format.

*Trademark. See Trademark Reference. Prices subject to change.

HPLC Troubleshooting

Before you start any troubleshooting, it is essential to observe safe laboratory practices. Know the chemical and physical properties of any solvents used and have the appropriate Material Safety Data Sheets (MSDSs) readily available. All electrically powered instruments should be shut down and unplugged before starting. Eye protection should also be worn.

The following table lists common HPLC problems encountered, the possible causes and solutions for your quick reference.

SPEX CertiPrep®

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Symptom	Cause	Recommended Solutions
PRESSURE RELATED PROBLEMS		
Low Pressure	Low viscosity mobile phase.	Confirm expected pressure using the Kozeny-Carmen or similar equation.
	Piston seals leaking.	Check for evidence of leaking or wear and replace where necessary.
	Leak in system.	Check for and replace any leaking tubing or fittings.
	Air in solvent lines or pump.	Ensure that the reservoirs and solvent lines are fully primed and the purge valve is fully closed.
High Pressure	High viscosity mobile phase.	Confirm expected pressure using the Kozeny-Carmen or similar equation.
	Pump flow-rate malfunction.	Contact manufacturer.
	Tubing blocked.	Working backwards from detector outlet, check source of blockage and replace item as necessary.
	Guard blocked.	Replace guard cartridge.
	Sample precipitation.	Consider sample clarification steps such as filtration or SPE.
	Detector blockage.	Clean the flow cell according to the manufacturer's instructions.
Baseline Related Problems Fluctuating Baseline	System not equilibrated.	Equilibrate the column with 10 volumes of mobile phase.
	Bubbles in flow cell.	Degas the mobile phase and pass degassed solvent through the flow-cell. Do not exceed the cell's pressure limit.
	Contaminated guard.	Replace the guard cartridge.
	Contaminated column.	Wash the column using an appropriate solvent. If this does not resolve the problem, replace the column.
	Detector contamination.	Clean the flow cell according to the manufacturer's instructions.
	Contaminated solvents.	Use freshly prepared solvents of HPLC grade.
	Old detector lamp.	Replace the lamp, particularly when this has been in use for > 2000 hours.
Sloping Baseline	Contaminated solvents.	Use freshly prepared solvents of HPLC grade.
	Gradient mobile phase.	Consider purer solvents or higher wavelengths. Otherwise, this is normal.
	System not equilibrated.	Equilibrate the column with 10 volumes of mobile phase.
	Leak in system.	Check for and replace any leaking tubing or fittings.
	Temperature fluctuations.	Use a thermostatically controlled column oven.
	Contaminated column.	Wash the column using an appropriate solvent. Ensure that a gradient method has a wash period at the end.
	Pump not mixing solvents properly.	Where being used, ensure that the proportioning valve is mixing the solvents correctly. If the method is isocratic, blend the solvents manually.
	Blocked solvent reservoir frits.	Ultrasonicate the reservoir frits in water and then methanol.
	Old detector lamp.	Replace the lamp, particularly when this has been in use for > 2000 hours.
Peak Shape Problems Broad Peaks	System not equilibrated.	Equilibrate the column with 10 volumes of mobile phase.
	Injection solvent too strong.	Ensure that the injection solvent is the same or weaker strength than the mobile phase.
	Injection volume too high.	Reduce the injection volume to avoid overload. Typically injection volumes of < 40% of the expected peak width should be used.
	Injected mass too high.	Reduce the sample concentration to avoid mass overload.
	Extra column volume too high.	Reduce diameter and length of connecting tubing. Reduce the volume of the flow cell where possible.
	Temperature fluctuations.	Use a thermostatically controlled column oven. Higher temperatures will produce sharper peaks.
	Old guard cartridge.	Replace the guard cartridge.
	Old column.	Do not use columns that have been used with ion-pair reagents for reverse-phase methods. Old columns give much lower efficiencies than new columns. Replace the column if necessary.
	Contaminated column.	Wash the column using an appropriate solvent. If this does not resolve the problem, replace the column.
	Voided column.	Replace the column. Do not use outside the recommended pH range.
Double Peaks	Old guard cartridge.	Replace the guard cartridge.
	Contaminated column.	Wash the column using an appropriate solvent. If this does not resolve the problem, replace the column.
	Voided column.	Replace the column. Do not use outside the recommended pH range.
Negative Peaks	Contaminated solvents.	Use freshly prepared solvents of HPLC grade.
	Wrongly wired detector.	Check the signal polarity from the detector to the recording device.
	Unbalanced RI detector optics.	Refer to manufacturer's instructions.
	Ion pair method.	Inject the sample in the mobile phase.

HPLC Troubleshooting *(Continued)*

Symptom	Cause	Recommended Solutions
PEAK SHAPE PROBLEMS		
Flat topped Peaks	Detector overload.	Reduce the sample concentration.
	Detector set-up.	Check the detector attenuation and re-zero.
Tailing Peaks	Old guard cartridge.	Replace the guard cartridge.
	Injection solvent too strong.	Ensure that the injection solvent is the same or weaker strength than the mobile phase.
	Injection volume too high.	Reduce the injection volume to avoid overload. Typically injection volumes of < 40% of the expected peak width should be used.
	Injected mass too high.	Reduce the sample concentration to avoid mass overload.
	Old column.	Do not use columns that have been used with ion-pair reagents for reversed phase methods. Old columns give much lower efficiencies than new columns. Replace the column if necessary.
	Contaminated column.	Wash the column using an appropriate solvent. If this does not resolve the problem, replace the column.
	Voided column.	Replace the column. Do not use outside the recommended pH range.
Fronting Peaks Peak Size and Retention Problems Small Peaks	Old or damaged column.	Replace the column.
	Degraded sample.	Inject a fresh sample.
	Low analyte concentration.	Increase the analyte concentration.
	Detector set-up.	Check the detector attenuation and re-zero.
	No wash solvent.	Check that the solvent wash reservoir is filled with a miscible solvent and that the injector is set to wash between injections.
	Damaged or blocked syringe.	Replace the syringe.
	Incorrect amount injected.	Check injector loop size and that no more than 50% of this volume is used for partial loop injections.
	Viscous injection solvent.	Reduce syringe draw-time.
	Old detector lamp.	Replace the lamp, particularly when this has been in use for > 2000 hours.
No Peaks	Sample vial empty.	Fill sample vial.
	Leak in system.	Check for and replace any leaking tubing or fittings.
	Pump not mixing solvents properly.	Where being used, ensure that the proportioning valve is mixing the solvents correctly. If the method is isocratic, blend the solvents manually.
	Damaged or blocked syringe.	Replace the syringe.
	Different dwell volume.	For gradient methods, check that the dwell volume of any new system is not very different from any previous system. Apply a final hold time if necessary.
	Old detector lamp.	Replace the lamp, particularly when this has been in use for > 2000 hours.
Missing Peaks	Degraded sample.	Inject a fresh sample.
	Immiscible mobile phase.	Check that any solvent already in the column is miscible with the mobile phase. Flush with propan-2-ol or ethanol where necessary.
	Fluctuations in pH.	Buffer the mobile phase so that retention of ionizable compounds is controlled.
Extra Peaks	Degraded sample.	Inject a fresh sample.
	Contaminated solvents.	Use freshly prepared solvents of HPLC grade. Gradient methods often show “ghost-peaks”.
	Immiscible mobile phase.	Check that any solvent already in the column is miscible with the mobile phase. Flush with propan-2-ol or ethanol where necessary.
	Fluctuations in pH.	Buffer the mobile phase so that retention of ionizable compounds is controlled.
	Contaminated guard cartridge.	Replace the guard cartridge.
	Contaminated column.	Wash the column using an appropriate solvent. If this does not resolve the problem, replace the column.
Varying Retention	System not equilibrated.	Equilibrate the column with 10 volumes of mobile phase.
	Leak in system.	Check for and replace any leaking tubing or fittings.
	Temperature fluctuations.	Use a thermostatically controlled column oven.
	Contaminated column.	Wash the column using an appropriate solvent. If this does not resolve the problem, replace the column.
	Blocked solvent reservoir frits.	Ultrasonicate the reservoir frits in water and then methanol.
	Pump not mixing solvents properly.	Where being used, ensure that the proportioning valve is mixing the solvents correctly. If the method is isocratic, blend the solvents manually.
	Contaminated solvents.	Use freshly prepared solvents of HPLC grade.
	Different dwell volume.	For gradient methods, check that the dwell volume of any new system is not very different from any previous system. Apply a final hold time if necessary.
	Piston seals leaking.	Check for evidence of leaking or wear and replace where necessary.
	Air in solvent lines or pump.	Ensure that the reservoirs and solvent lines are fully primed and that the purge valve is fully closed.

*Trademark. See Trademark Reference.

Prices subject to change.

Fisher Chemical™ Products Purity Grades

GRADE	DEFINITION	APPLICATION	CERTIFICATE OF ANALYSIS
Optima®	Acids and solvents of extremely high purity. Acids are analyzed for 65 metals by ICP/MS; impurity levels in ppt. Solvent impurity levels in ppm. UV absorbance curves and sample chromatograms available on request. For Optima acids, a typical lot analysis is given in the catalog. Impurity levels in an actual lot received may vary from the amount listed.	HPLC, GC, plasma/ICP, spectrophotometry, and pesticide residue analysis	Available on request
Optima® LC/MS	Meets stringent purity requirements of LC/ MS and UHPLC by addressing the need for minimal organic contamination with 0.1 micron filtration to make particle free. Evaluated for 17 metal impurities at ppb concentrations for minimal metal mass adduct formation. High ionization efficiency to detect organic contaminants at 50 ppb max (positive) and 300 ppb max (negative) in full scan MS. Screened for UV-absorbing contaminants at every wavelength in the 200 to 400 nm range to afford smooth baselines and to reduce interferences.	Ideal mobile phase for LC/MS and UHPLC-UV applications in pharmaceutical, biotechnology, clinical, environmental and food safety industries.	Available on request
GC *Resolv*®	Solvents with the highest purity and lot-to-lot consistency. Free of contaminants to the ppb level, including those listed in Contract Laboratory Program Target Compound List. Meet ACS specifications. Chromatogram available on request.	Gas Chromatography (GC)	Available on request
HPLC	Solvents manufactured specifically for use with HPLC instruments. Meet all ACS specifications. Submicron filtered.	HPLC and spectrophotometry procedures	Available on request
Certified ACS	Reagent chemicals that meet or exceed the latest ACS Specifications. Actual lot analysis on label.	Analytical applications requiring tight specifications	Available on request
Certified ACS Plus	Acids that, in addition to meeting or exceeding the latest specifications of the ACS, are analyzed for more than 16 metals. Actual lot analysis on label.	Analytical applications with tighter metal specifications	Available on request
Certified	Reagent chemicals for which the purity standard is established by Fisher Scientific. Purity is guaranteed to meet published maximum limits of impurities.	General analytical procedures	Available on request
Plasma Grade	Solvents manufactured for use with plasma/ICP instruments. Impurity levels in ppt. Packaged in acid-cleaned polyethylene bottles.	Plasma/ICP, environmental testing, trace-metal analysis	Available on request
Environmental Grade	Solvents for use in HPLC analysis, trace-organic analysis, and environmental testing. Packaged in precleaned glass bottles in M3.5 (Class 100) cleanroom. Shipped with Certificate of Analysis.	HPLC, trace-organic analysis, environmental testing.	Available on request
Pesticide	Solvents for use in analysis of pesticide residue. Meet or exceed ACS standards of purity for pesticide residue analysis.	GC with electron capture detector (ECD), pesticide residue analysis	Available on request
USP/NF/FCC/EP/BP/JP	Reagent chemicals that meet or surpass specifications of the United States Pharmacopeia (USP), the National Formulary (NF), the Food Chemicals Codex (FCC), the European Pharmacopeia (EP), the British Pharmacopeia (BP), and/or the Japanese Pharmacopeia (JP).	Food and drug laboratories, biological testing	20L or greater; 10kg or greater
Spectranalyzed®	Solvents for use in spectrophotometry. Also meet ACS specifications. Actual lot analysis on label.	Ultraviolet and visible wavelength detectors (UV-Vis)	Available on request
Biotechnology	Solvents and reagents that have been specially purified and assayed for biotechnology applications.	Electrophoresis, molecular biology, sequencing, and peptide and oligonucleotide synthesis	Available on request
Scintanalyzed™	Solvents, fluors, and prepared cocktails for liquid scintillation counting. Includes nonflammable, nontoxic, biodegradable ScintiSafe® cocktails.	Liquid scintillation counting	Available on request
Electronic	Solvents manufactured to ensure low levels of metal contamination. Meet Semiconductor Equipment and Materials Institute (SEMI) requirements. Actual lot analysis on label.	Electronics and circuit board manufacturing	Available on request
TraceMetal	Acids manufactured to achieve low metal contamination measurable in ppm to ppb range. Each lot is analyzed for more than 55 metals by ICP/MS. For TraceMetal acids, a typical lot analysis is given in the catalog. Impurity levels in an actual lot received may vary from amounts listed.	Primarily used in digestion of samples prior to instrument (ICP) analysis	Available on request
Histology	Solvents and products that are specially prepared for use in the histology laboratory setting. Solvents are filtered for tissue processing applications.	Tissue processing, clinical or histology procedures	Available on request
Laboratory, Technical and Reagent	Chemicals of reasonable purity for situations where no official standard for quality or impurity levels exist.	Manufacturing and general laboratory use	Available on request

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Alphabetical Listing of Chemicals for Life Science Applications

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GRADE	APPLICATION
Optima®	HPLC, GC, plasma/ICP, spectrophotometry, and pesticide residue analysis
Optima® LC/MS	Ideal mobile phase for LC/MS and UHPLC-UV applications in pharmaceutical, biotechnology, clinical, environmental and food safety industries
HPLC	HPLC and spectrophotometry procedures
Certified ACS	Analytical applications requiring tight specifications
Certified ACS Plus	Analytical applications with tighter metal specifications
Certified	General analytical procedures
Environmental Grade	HPLC, trace-organic analysis, environmental testing
Pesticide	GC with electron capture detector (ECD), pesticide residue analysis
USP/NF/FCC/EP/BP/JP	Food and drug laboratories, biological testing
TraceMetal	Primarily used in digestion of samples prior to instrument (ICP) analysis
Laboratory, Technical and Reagent	Manufacturing and general laboratory use

Acetic Acid — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	FEP Bottle	**A465-250**	464.49	----
500mL	FEP Bottle	**A465-500**	702.50	----
1L	FEP Bottle	**A465-1**	829.00	----

Methanecarboxylic Acid, CH_3COOH
F.W. 60.05; [64-19-7]; **Melting Point:** 16.6°-16.7°C
Boiling Point: 118°C; **Density:** 1.05g/mL
DOT Class 8: Corrosive; **UN** 2789; Ideal for analysis by ICP-MS and high-resolution ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code RED

Acetic Acid, Glacial — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A35-500**	99.80	6/336.50

Also meets ACS specifications; ≥99.7 w/w %
Methanecarboxylic Acid, $C_2H_4O_2$; CH_3COOH
F.W. 60.05; [64-19-7]
Melting Point: 16° to 16.5°C/60.8° to 61.7°F
Flash Point: 40°C/104°F; **Boiling Point:** 117° to 118°C/242.6 ° to 244.4°F
Density: 2.10 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 2789

ACID — ChemAlert® Storage Code RED

Acetic Acid, Glacial — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**A490-212**	257.50	----

Methanecarboxylic Acid, $C_2H_4O_2$; CH_3COOH
F.W. 60.05; [64-19-7]
Melting Point: 16° to 16.5°C/60.8° to 61.7°F
Flash Point: 40°C/104°F; **Boiling Point:** 117° to 118°C/242.6 ° to 244.4°F
Density: 2.10 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 2789

ACID — ChemAlert® Storage Code RED

Acetic Acid, Glacial — USP/FCC/EP/BP

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**A491-212**	234.00	----

Methanecarboxylic Acid, $C_2H_4O_2$; CH_3COOH
F.W. 60.05; [64-19-7]
Melting Point: 16° to 16.5°C/60.8° to 61.7°F
Flash Point: 40°C/104°F; **Boiling Point:** 117° to 118°C/242.6 ° to 244.4°F
Density: 2.10 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 2789

ACID — ChemAlert® Storage Code RED

Acetic Acid, Glacial — TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	HDPE Bottle	**A507-P500**	110.60	----
2.5L	HDPE Bottle	**A507-P212**	237.69	----
4L	HDPE Bottle	**A507-4**	882.50	4/882.50

Methanecarboxylic Acid, Vinegar Acid, CH_3COOH
F.W. 60.05; [64-19-7]; **Melting Point:** 16.6° to 16.7°C
Boiling Point: 118°C; **Density:** 1.05g/mL
DOT Class 8: Corrosive; **UN** 2789; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code RED

Acetic Acid, Glacial — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass	**A38-500**	75.90	6/339.00
500mL	Glass/Safe-Cote	**A38S-500**	93.10	6/314.50
6 x 2.5L	Glass	**A38C-212**	435.00	----
6 x 2.5L	Glass/Safe-Cote	**A38S-212**	554.50	----
2.5L	Glass	**A38-212**	156.60	----
2.5L	Glass/Safe-Cote Individual	**A38SI-212**	188.63	----
20L	Poly Drum	**A38P-20**	439.00	----
450 lb.	Poly Drum	**A38-450LB**	3310.00	----

≥99.7 w/w %; $C_2H_4O_2$; CH_3COOH; **F.W.** 60.05; [64-19-7]
Melting Point: 16° to 16.5°C/60.8° to 61.7°F
Flash Point: 40°C/104°F; **Boiling Point:** 117° to 118°C/242.6 ° to 244.4°F; **Density:** 2.10 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 2789; **Recommended Storage:** RT

ACID — ChemAlert® Storage Code RED

Acetic Acid — Optima LC/MS

Quantity	Packaging	Cat.No.	Each	Case of
10 x 1mL ampule	Ampule	**A113-10X1AMP**	130.40	----
1mL ampule	Ampule	**A113-1AMP**	34.69	----

≥99.7 %; $C_2H_4O_2$; CH_3COOH; **F.W.** 60.05; [64-19-7]
Melting Point: 16° to 16.5°C/60.8° to 61.7°F; **Flash Point:** 40°C/104°F
Boiling Point: 117° to 118°C/242.6 ° to 244.4°F; **Density:** 2.10 (Air = 1.0)

Acetic acid — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC22214-0010**	46.90	4/187.60
2.5L	Glass Bottle	**AC22214-0025**	90.70	4/362.80

99.8%; Glacial acetic acid, $C_2H_4O_2$; CH_3COOH; **F.W.** 60.05; [64-19-7]
Melting Point: 16.0°C to 16.5°C; **Flash Point:** 40°C
Boiling Point: 117.0°C to 118.0°C; **Density:** 1.0480g/mL; **n:** 1.3700 to 1.3730
UN 2789

Acetic acid — For biochemistry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC14893-0010**	65.90	4/263.60
2.5L	Glass Bottle	**AC14893-0025**	122.60	4/490.40

99.8%; Glacial acetic acid, $C_2H_4O_2$; CH_3COOH; **F.W.** 60.05; [64-19-7]
Melting Point: 16.0°C to 16.5°C; **Flash Point:** 40°C
Boiling Point: 117.0°C to 118.0°C; **Density:** 1.0480g/mL; **n:** 1.3700 to 1.3730
UN 2789

Acetic acid — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC42322-5000**	36.80	6/220.80
2.5L	Glass Bottle	**AC42322-0025**	96.30	6/577.80

99.7+%; Glacial acetic acid, $C_2H_4O_2$; CH_3COOH; **F.W.** 60.05; [64-19-7]
Melting Point: 16.0°C to 16.5°C; **Flash Point:** 40°C
Boiling Point: 117.0°C to 118.0°C; **Density:** 1.0480g/mL; **n:** 1.3700 to 1.3730
UN 2789

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Acetic Acid Solution, 1N — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA36-1**	122.50	6/529.50

Methanecarboxylic Acid, CH_3CO_2H; CH_3COOH
F.W. 60.05; [64-19-7, 7732-18-5]; A volumetric standard solution, titrated at 25°C to pH 8.2 (phenolphthalein endpoint) against sodium hydroxide, which has been standardized against NIST* potassium acid phthalate.

ChemAlert® Storage Code GRAY

Acetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**13825-1**	135.50	----

[7732-18-5, 64-19-7]

Acetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**130-16**	27.20	----
4L	Poly Bottle	**130-1**	75.40	----

[7732-18-5, 64-19-7]

Acetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**120-16**	21.85	----

[64-19-7 (Acetic Acid), 7732-18-5 (Water, Deionized)]

Acetone — GC Resolv

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A928-4**	231.08	4/624.56

≥99.5 %; 2-Propanone, Dimethyl Ketone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: –94°C; **Flash Point:** –20°C/–4°F
Boiling Point: 56°C; **Density:** 2.0 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1090; Packaged under nitrogen.
Suitable for high-resolution chromatography and organic residue analysis.

SOLVENT — ChemAlert® Storage Code RED

Acetone — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A929-1**	93.73	6/440.10
4L	Glass Bottle	**A929-4**	191.58	4/629.07
4L	Glass/Safe-Cote	**A929SK-4**	214.00	4/640.00

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC
2-Propanone, Dimethyl Ketone, C_3H_6O; CH_3COCH_3
F.W. 58.08; [67-64-1]; **Melting Point:** –94°C
Flash Point: –20°C/–4°F; **Boiling Point:** 56°C
Density: 2.0 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1090; High purity and versatile solvent for HPLC, GC and pesticide residue analysis.
High UV transmittance and low evaporation residue.
Filtered through a 0.2µm filter to remove particulates.

SOLVENT — ChemAlert® Storage Code RED

Acetone — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A949-1**	101.70	6/374.50
1L	Glass/Safe-Cote	**A949SK-1**	213.00	6/777.50
4L	Glass Bottle	**A949-4**	203.50	4/578.00
4L	Glass/Safe-Cote	**A949SK-4**	225.00	4/604.00
19L	NOWPAK I	**A949N1-19**	923.50	----

Mobile phase for HPLC applications.
99.9% min by GC; 2-Propanone, Dimethyl Ketone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: –94°C; **Flash Point:** –20°C/–4°F
Boiling Point: 56°C; **Density:** 2.0 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1090; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a 0.2µm filter to remove particulates.

SOLVENT — ChemAlert® Storage Code RED

Acetone — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A40-4**	187.50	4/489.00

2-Propanone, Dimethyl Ketone, C_3H_6O; CH_3COCH_3
F.W. 58.08; [67-64-1]; **Melting Point:** –94°C
Flash Point: –20°C/–4°F; **Boiling Point:** 56°C
Density: 2.0 (Air = 1.0); **n:** at 25°C = 1.3555-1.3580
DOT Class 3: Flammable Liquid; **UN** 1090; For pesticide residue analysis by GC-ECD.
Suitable for sample prep prior to GC-ECD for environmental applications.

SOLVENT — ChemAlert® Storage Code RED

Acetone — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A9-4**	353.35	4/1006.89
20L	Steel Pail	**A9-20**	674.00	----

2-Propanone, Dimethyl Ketone, C_3H_6O; CH_3COCH_3
F.W. 58.08; [67-64-1]; **Melting Point:** –94°C
Flash Point: –20°C/–4°F; **Boiling Point:** 56°C
Density: 2.0 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1090

SOLVENT — ChemAlert® Storage Code RED

Acetone — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A11-1**	129.70	6/548.50
4L	Glass Bottle	**A11-4**	273.05	4/777.40
4L	Aluminum Can	**A11S-4**	197.00	4/540.71
20L	Steel Pail	**A11-20**	619.00	----
200L	Steel Drum	**A11-200**	1750.00	----

2-Propanone, Dimethyl Ketone, C_3H_6O; CH_3COCH_3
F.W. 58.08; [67-64-1]; **Melting Point:** –94.3°C
Flash Point: –20°C/–4°F; **Density:** 2.0 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1090

SOLVENT — ChemAlert® Storage Code RED

Acetone — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A19-1**	142.40	6/611.50
4L	Glass Bottle	**A19-4**	300.00	4/555.00

clear liquid; Also meets ACS specifications
≥99.5 %; 2-Propanone, Dimethyl Ketone, C_3H_6O CH_3COCH_3; **F.W.** 58.08; [67-64-1]; **Melting Point:** –94°C;
Flash Point: –20°C/–4°F; **Boiling Point:** 56°C
Density: 2.0 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1090; For use in the ultraviolet and infrared ranges.

SOLVENT — ChemAlert® Storage Code RED

Acetone — Electronic Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A946-4**	233.50	4/730.50

For use in electronics and circuit board manufacturing.
96% min by GC; 2-Propanone, Dimethyl Ketone, C_3H_6O CH_3COCH_3; **F.W.** 58.08; [67-64-1]; **Melting Point:** –94°C
Flash Point: –20°C/–4°F; **Boiling Point:** 56°C
Density: 2.0 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1090; Suitable for use in electronics and circuit board manufacturing.
Manufactured to ensure low levels of metal contamination.
Meet Semiconductor Equipment and Materials Institute (SEMI) requirements.

SOLVENT — ChemAlert® Storage Code RED

Acetone — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**A16P-4**	140.30	4/458.00
4L	Aluminum Can	**A16S-4**	167.90	4/480.18
20L	Steel Pail	**A16S-20**	402.50	----
1 gal.	Poly Bottle	**A16F-1GAL**	141.20	4/404.00

clear liquid; ≥99.5%; 2-Propanone,, Dimethyl Ketone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: –94.3°C; **Flash Point:** –20°C/–4°F
Boiling Point: 56.5°C; **Density:** 2.0 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1090; Used in histology applications.

SOLVENT — ChemAlert® Storage Code RED

Acetone — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A18-500**	50.60	6/303.60
1L	Glass Bottle	**A18-1**	107.07	6/451.13
4L	Glass Bottle	**A18-4**	200.50	4/802.00
4L	Poly Bottle	**A18P-4**	198.30	4/562.50
4L	Aluminum Can	**A18S-4**	219.30	4/877.20
4L	Glass/Safe-Cote	**A18SK-4**	214.50	4/561.00
20L	Steel Pail	**A18-20**	526.81	----
200L	Steel Drum	**A18-200**	2796.80	----
350 gal.	Steel Tote	**A18-CU1300**	10770.00	----

clear liquid; ≥99.5 %; 2-Propanone, Dimethyl Ketone, C_3H_6O; **F.W.** 58.08; [67-64-1]; **Melting Point:** –94°C
Flash Point: –20°C/–4°F; **Boiling Point:** 56°C
Density: 2.0 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1090; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

SOLVENT — ChemAlert® Storage Code RED

Acetone — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC26831-0010**	53.10	4/212.40
2.5L	Glass Bottle	**AC26831-0025**	102.00	4/408.00

For HPLC; 99.8%; 2-Propanone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: – 95.0°C; **Flash Point:** –20°C; **Boiling Point:** 56.0°C
Density: 0.7900g/mL; **n:** 1.3585; **UN** 1090

Acetone — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC42324-5000**	34.40	6/206.40
1L	Glass Bottle, EcoSafPak	**AC42324-0010**	51.40	----
4L	Glass Bottle, EcoSafPak	**AC42324-0040**	121.60	4/404.00

99.6%; 2-Propanone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: – 95.0°C; **Flash Point:** –20°C; **Boiling Point:** 56.0°C
Density: 0.7900g/mL; **n:** 1.3585; **UN** 1090

Acetone — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC32680-1000**	59.60	6/357.60
1L	AcroSeal® Glass Bottle	**AC32680-1010**	97.10	----

99.8%; 2-Propanone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: – 95.0°C; **Flash Point:** –20°C; **Boiling Point:** 56.0°C
Density: 0.7900g/mL; **n:** 1.3585; **UN** 1090

Acetone — For electronic use

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**AC32784-0040**	146.00	4/584.00

99.5%; 2-Propanone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: – 95.0°C; **Flash Point:** –20°C; **Boiling Point:** 56.0°C
Density: 0.7900g/mL; **n:** 1.3585; **UN** 1090

Acetone — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC17717-0010**	38.10	4/126.50
2.5L	Plastic Jerry Can	**AC17717-0025**	72.30	4/240.00
25L	Plastic Jerry Can	**AC17717-0250**	377.50	----

99+%; 2-Propanone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: – 95.0°C; **Flash Point:** –20°C; **Boiling Point:** 56.0°C
Density: 0.7900g/mL; **n:** 1.3585; **UN** 1090

Acetone — For analysis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle, EcoSafPak	**AC17680-0010**	36.55	4/121.30
2.5L	Glass Bottle	**AC17680-0025**	70.10	4/233.00

99.5+%; 2-Propanone, C_3H_6O; CH_3COCH_3; **F.W.** 58.08; [67-64-1]
Melting Point: – 95.0°C; **Flash Point:** –20°C; **Boiling Point:** 56.0°C
Density: 0.7900g/mL; **n:** 1.3585; **UN** 1090

Acetone-Alcohol

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**200-32**	74.10	----
4L	Poly Bottle	**200-1**	217.00	----
20L	Cubitainer	**200-5**	601.50	----

For use in Gram Staining; [64-17-5, 67-64-1]

Acetonitrile — Optima LC/MS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A955-1**	219.00	6/1306.00
4L	Glass Bottle	**A955-4**	560.50	4/2030.00

Formulated for UHPLC-UV; 99.9% min by GC; ACN, Ethanenitrile, Methyl Cyanide, C_2H_3N; CH_3CN; **F.W.** 41.05; [75-05-8]; **Melting Point:** : –45°C
Flash Point: 12.8°C/55.0°F; **Boiling Point:** : 81.6°C; **Density:** 1.42 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1648; ---Ideal mobile phase for LC/MS and UHPLC-UV applications in pharmaceutical, biotechnology, clinical, environmental and food safety industries.
---Novel gradient elution test with Photodiode Array Detector screens for UV-absorbing contaminants at every wavelength in the 200 to 400nm range to afford smooth baselines and to reduce interferences.
---Evaluated for 17 metal impurities at ppb concentrations to minimize the formation of metal adducts during analysis and simplify spectral interpretation.

Fisher Scientific
*Trademark. See trademarks at www.fishersci.com
Prices subject to change.

Acetonitrile — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A996-1**	181.55	6/907.76
4L	Glass Bottle	**A996-4**	481.00	4/1588.00
4L	Glass/Safe-Cote	**A996SK-4**	503.50	4/1625.00
19L	NOWPackII	**A996N2-19**	278.59	----

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC; ACN, Ethanenitrile, Methyl Cyanide, C_2H_3N; **F.W.** 41.05 [75-05-8]; **Melting Point:** –45°C; **Flash Point:** 12.8°C/55.0°F
Boiling Point: 81.6°C; **Density:** 1.42 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1648; High purity and versatile solvent for HPLC, GC and pesticide residue analysis.
High UV transmittance and low evaporation residue.
Filtered through a 0.2µm filter to remove particulates.

SOLVENT — ChemAlert® Storage Code RED

Acetonitrile — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A998-1**	164.31	6/855.63
1L	Glass/Safe-Cote	**A998SK-1**	193.00	6/762.00
2.5L	Amber Glass	**A998-212**	396.50	4/1227.00
4L	Glass Bottle	**A998-4**	467.50	4/1489.00
4L	Glass/Safe-Cote	**A998SK-4**	488.50	4/1537.00
19L	NOWPAK I	**A998N1-19**	1492.00	----

Mobile phase for HPLC applications.
99.9% min by GC; ACN, Ethanenitrile, Methyl Cyanide, C_2H_3N; CH_3CN; **F.W.** 41.05; [75-05-8]
Melting Point: –45°C; **Flash Point:** 12.8°C/55.0°F
Boiling Point: 81.6°C; **Density:** 1.42 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1648; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions.

SOLVENT — ChemAlert® Storage Code RED

Acetonitrile — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A999-4**	364.00	4/955.00

Also meets ACS specifications; Methyl Cyanide, Ethanenitrile, C_2H_3N; CH_3CN; **F.W.** 41.05; [75-05-8]
Melting Point: –45°C; **Flash Point:** 12.8°C/55.0°F
Boiling Point: 81.6°C; **Density:** 1.42 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1648

SOLVENT — ChemAlert® Storage Code RED

Acetonitrile — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A21-1**	277.19	6/587.97
4L	Glass Bottle	**A21-4**	576.44	4/1339.34
20L	Steel Pail	**A21-20**	1277.00	----
200L	Steel Drum	**A21-200**	12420.00	----

clear liquid; ≥99.5 %; Methyl Cyanide, Ethanenitrile, C_2H_3N; CH_3CN; **F.W.** 41.05; [75-05-8]
Melting Point: –45°C; **Flash Point:** 12.8°C/55.0°F
Boiling Point: 81.6°C; **Density:** 1.42 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1648; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

SOLVENT — ChemAlert® Storage Code RED

Acetonitrile — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O1034-500**	108.93	6/468.57

≥98.5 %; Methyl Cyanide, Ethanenitrile, C_2H_3N; CH_3CN
F.W. 41.05; [75-05-8]; **Melting Point:** –45°C
Flash Point: 1°; **Boiling Point:** 81.6°C
Density: 0.78g/mL; **DOT Class 3**: Flammable Liquid
UN 1648; Suitable for nonaqueous titrations.

SOLVENT — ChemAlert® Storage Code RED

Acetonitrile (ACN) — LC/MS

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4 x 1L	Amber glass	**PI85188**	351.32	----

Clear, colorless liquid; Low metal, low water, low absorbance, 0.2µm-filtered; ≥99.9%; Methyl cyanide, Cyanomethane, CH_3CN
F.W. 41.05; [75-05-8]; **Melting Point:** –45.7°C
Flash Point: 12.8°C (closed cup); 5.6°C (open cup); **Boiling Point:** 81.6°C
Density: 0.780g/mL; **UN** UN1648

Acetonitrile

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC61514-0025**	415.80	----

ICP-OES/-MS standards; AN, Methyl cyanide, C_2H_3N; CH_3CN
F.W. 41.04; [75-05-8]; **Melting Point:** – 46.0°C; **Flash Point:** 2°C
Boiling Point: 81.0°C to 82.0°C; **Density:** 0.7810g/mL
n: 1.3430 to 1.3450

Acetonitrile — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61001-0040**	282.90	4/1131.60

For HPLC; AN, Methyl cyanide, C_2H_3N; CH_3CN; **F.W.** 41.04; [75-05-8]
Melting Point: – 46.0°C; **Flash Point:** 2°C; **Boiling Point:** 81.0°C to 82.0°C
Density: 0.7810g/mL; **n:** 1.3430 to 1.3450; **UN** 1648

Acetonitrile — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC26827-0010**	114.80	----
2.5L	Glass Bottle	**AC26827-0025**	180.30	4/721.20
4L	Glass Bottle	**AC26827-0040**	284.00	4/1136.00

For HPLC; 99.8%; AN, Methyl cyanide, C_2H_3N; CH_3CN; **F.W.** 41.04; [75-05-8]
Melting Point: – 46.0°C; **Flash Point:** 2°C; **Boiling Point:** 81.0°C to 82.0°C
Density: 0.7810g/mL; **n:** 1.3430 to 1.3450; **UN** 1648

Acetonitrile — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle packed in tin can	**AC61022-0010**	95.50	573.00

99.9%; AN, Methyl cyanide, C_2H_3N; CH_3CN; **F.W.** 41.04; [75-05-8]
Melting Point: – 46.0°C; **Flash Point:** 2°C; **Boiling Point:** 81.0°C to 82.0°C
Density: 0.7810g/mL; **n:** 1.3430 to 1.3450; **UN** 1648

Acetonitrile — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61096-1000**	50.20	6/301.20

99.9%; AN, Methyl cyanide, C_2H_3N; CH_3CN; **F.W.** 41.04; [75-05-8]
Melting Point: – 46.0°C; **Flash Point:** 2°C; **Boiling Point:** 81.0°C to 82.0°C
Density: 0.7810g/mL; **n:** 1.3430 to 1.3450; **UN** 1648

Acetonitrile with 0.05% Trifluoroacetic Acid (v/v) — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**HB9812-4**	596.00	4/1873.00

[76-05-1, 75-05-8]; **Flash Point:** Flash Point: 6°C / 42.8°F

Acetonitrile with 0.1% Trifluoroacetic Acid (v/v) — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**HB9813-4**	526.00	4/1524.00

Blended mobile phase for HPLC applications.; ACN, TFA, C_2H_3N
F.W. 41.04; [76-05-1, 75-05-8]; **Melting Point:** –50°C; **Flash Point:** 6°C/42.8°F
Boiling Point: 82°C; **Density:** 1.42 (Air = 1.0); Blended HPLC mobile phase for analytical and preparative separations.
High UV transmittance.
Suitable for gradient and isocratic conditions.

Acetonitrile with 0.1% Formic Acid (v/v) — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**HB9823-4**	518.50	4/1515.00

≥98.5 %; [75-05-8, 64-18-6]; **Flash Point:** 6°C/42.8°F; **Density:** 0.78g/mL

Acrylamide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O1065-500**	111.40	6/486.50

Flake-like Crystals; 2-Propenamide, C_3H_5NO; $CH_2CHCONH_2$
F.W. 71.08; [79-06-1]; **Melting Point:** 82° to 86°C/179.6° to 186.8°F
Flash Point: 138°C/280.4°F; **Boiling Point:** 125°C at 25 mmHg
Density: 2.45 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 2074

ChemAlert® Storage Code BLUE

Aerosol* OT Solution, 10% (w/w)

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**SA292-4**	252.00	4/840.50

10% w/w; [577-11-7, 111-76-2, 7732-18-5, 64-17-5, 104-76-7]
Aerosol* OT 10% is a remarkable chemical solution that "makes water wetter„ because it reduces surface tension and interfacial tension to a considerable degree even at low concentrations.

ChemAlert® Storage Code GRAY

Aerosol* OT Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A345-500**	101.90	6/492.50

[64-17-5]; **DOT Class 3**: Flammable Liquid; **UN** 1993
Contains: Sodium Dioctyl Sulfosuccinate, Ethyl Alcohol, Water.

ChemAlert® Storage Code RED

Aerosol* OT, Solid

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A349-500**	163.80	4/529.50

Anhydrous; Dioctyl Sulfosuccinate, Docusate Sodium, Sulfobutanedioic Acid, $C_{20}H_{37}O_7S{\cdot}Na$; $CH_3(CH_2)_3CH(C_2H_5)CH_2O_2CCH_2CH(SO_3Na)CO_2CH_2CH(C_2H_5)(CH_2)_3CH_3$; **F.W.** 444
[577-11-7]; **Melting Point:** 158.89°C; **Density:** 1.1g/mL; Specific gravity 1.1.

ChemAlert® Storage Code GRAY

Alcohol — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A995-4**	202.51	4/634.08

Mobile phase for HPLC applications.; 99.8% min by GC
Ethanol, Ethyl Alcohol, Denatured Alcohol, CH_3CH_2OH
CH_3CH_2OH; [67-56-1, 64-17-5, 67-63-0]
Melting Point: –114.11°C; **Flash Point:** 12.8°C/55°F
Boiling Point: 78.50°C; **Density:** 1.24; **DOT Class 3**: Flammable Liquid
UN 1987; HPLC mobile phase for analytical and preparative separations.
Anhydrous Ethyl Alcohol 90% ±1% v/v; Methyl Alcohol approx. 5% v/v
2-Propanol approx. 5% v/v.
High UV transmittance and low evaporation residue.

SOLVENT

ChemAlert® Storage Code RED

Alcohol, Reagent — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A962-4**	155.90	4/489.00
4L	Poly Bottle	**A962P-4**	142.20	4/449.50
4L	Aluminum Can	**A962S-4**	219.00	4/628.00
200L	Steel Drum	**A962-200**	1671.00	----
1 gal.	Poly Bottle	**A962F-1GAL**	140.80	4/441.00

Clear, Colorless Liquid; Reagent; Ethanol (88 to 91%), Methanol (4.0 to 5.0% v/v), Isopropyl Alcohol (4.5 to 5.5%); [64-17-5, 67-63-0, 67-56-1]
Melting Point: –114.11°C; **Flash Point:** 12.8°C/55°F
Boiling Point: 78.50°C; **Density:** 1.24; **DOT Class 3**: Flammable Liquid
UN 1987; Maximum container size is 4 liters, under government regulations.

SOLVENT

ChemAlert® Storage Code RED

Alcohol, Reagent , Anhyd., Absolute — ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**6590-16**	35.90	----
4L	Poly Natural	**6590-1**	96.25	----

[64-17-5, 67-63-0, 67-56-1]

Alcohol, Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**254670-32**	29.57	----
4L	Poly Natural	**254670-1**	72.80	----
4L	Amber Glass, safety coated	**254670-1SC**	95.18	----
10L	Cubitainer	**254670-25**	212.23	----
20L	Cubitainer	**254670-5**	300.46	----

Clear, colorless liquid; [64-17-5, 7732-18-5, 67-63-0, 67-56-1]
Melting Point: Approx. -50°C; **Boiling Point:** Approx. 93°C

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Alkaline Iodide–Sodium Azide Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SA435-1**	229.00	6/1009.00

[1310-58-3, 7681-11-0, 26628-22-8, 7732-18-5]; **Density:** 1.5g/mL
DOT Class 8: Corrosive; **UN** 1760; Used in APHA test for dissolved oxygen (Alsterberg azide modification).
Contains Potassium Hydroxide, Potassium Iodide, Sodium Azide.

ChemAlert® Storage Code WHITE

Aluminum

Quantity	Packaging	Cat.No.	Each	Case of
500g	Can	**A559-500**	127.01	6/530.78

Finest Powder; Al; **F.W.** 26.98; [7429-90-5]; **Melting Point:** 660°C
Boiling Point: 2467°C; **Density:** 2.7g/mL
DOT Class 4.3: Dangerous When Wet; **UN** 1396

ChemAlert® Storage Code RED

Aluminum — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Box	**A557-500**	228.57	6/978.44

Wire; Al; **F.W.** 26.98; [7429-90-5]; **Melting Point:** 660°C
Boiling Point: 2327°C; **Density:** 2.7g/mL

ChemAlert® Storage Code GRAY

Aluminium hydroxide — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC21913-0100**	582.00	----

AlH_3O_3; $Al(OH)_3$; **F.W.** 78.00; [21645-51-2]

Aluminum Nitrate Nonahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A586-500**	183.20	6/803.61
3kg	Glass Bottle	**A586-3**	647.00	4/1873.00
10kg	Poly Pail	**A586-10**	1415.13	----

Crystalline; 98.0 to 102.0 %
Nitric Acid Aluminum Salt, $Al(NO_3)_3 \cdot 9H_2O$; $Al(NO_3)_3 \cdot 9H_2O$
F.W. 375.13; [7784-27-2]; **Melting Point:** 73°C
DOT Class 5.1: Oxidizer; **UN** 1438

ChemAlert® Storage Code YELLOW

Aluminum Oxide Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A591-500**	72.68	6/314.79
3kg	Glass Bottle	**A591-3**	267.12	4/784.52

Powder; Aluminum Trioxide, Alumina, Al_2O_3
F.W. 101.96; [1344-28-1]; **Melting Point:** 2,000°C
Boiling Point: 2,980°C; **Density:** 4g/mL

ChemAlert® Storage Code GRAY

Aluminum Sulfate Hydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A613-500**	339.50	6/1483.00

Crystalline; 98.0 to 102.0 %; $Al_2O_{12}S_3 \cdot 1_8H_2O$; $Al_2(SO_4)_3 \cdot nH_2O$
F.W. 666.42 (for 18-hydrate); [7784-31-8]; **Melting Point:** 86°C

ChemAlert® Storage Code GRAY

Aluminum Sulfate Hydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**A611-3**	187.40	4/523.00

$Al_2S_3O_{12} \cdot xH_2O$; $Al_2(SO_4)_3 \cdot nH_2O$
[57292-32-7]

ChemAlert® Storage Code GRAY

Amberlite* IRA-402

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC36994-0050**	464.40	----

Ion exchange resin; [52439-77-7]

Ammonium Acetate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A637-500**	163.00	6/717.00
3kg	Poly Pail	**A637-3**	585.64	----
10kg	Poly Pail	**A637-10**	864.50	----

Crystalline; ≥97 %; $C_2H_7NO_2$; CH_3COONH_4; **F.W.** 77.08; [631-61-8]
Melting Point: 110°C; **Flash Point:** 136°C/276.8°F
Density: 1.07g/mL

ChemAlert® Storage Code GRAY

Ammonium Acetate — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A639-500**	114.10	6/475.50

Crystalline; Also meets ACS specifications; ≥97 %
Acetic Acid Ammonium Salt, $C_2H_7NO_2$; CH_3COONH_4
F.W. 77.08; [631-61-8]; **Melting Point:** 110°C
Flash Point: 136°C/276.8°F; **Density:** 1.07g/mL

ChemAlert® Storage Code GRAY

Ammonium Bifluoride — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A664-500**	90.60	6/396.50
3kg	Poly Bottle	**A664-3**	327.35	4/925.14

Crystalline; Ammonium Acid Fluoride, Ammonium Hydrogen Difluoride, H_5F_2N; **F.W.** 57.04; [1341-49-7]; **Melting Point:** 125°C
Boiling Point: 239.5°C; **Density:** 1.5g/mL
DOT Class 8: Corrosive; **UN** 1727

ChemAlert® Storage Code WHITE

Ammonium bromide — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC44631-0025**	238.60	----

H_4BrN; NH_4Br; **F.W.** 97.94; [12124-97-9]; **Melting Point:** 452.0°C
Boiling Point: 235.0°C

Ammonium Carbonate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Pail	**A652-3**	214.50	----

Powder; $CH_8N_2O_3$; **F.W.** 96.07; [506-87-6]
Melting Point: 58°C

ChemAlert® Storage Code GRAY

Ammonium Carbonate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A656-500**	121.50	6/509.00

Lumps; $CH_8N_2O_3$; **F.W.** 96.07; [506-87-6]
Melting Point: 58°C

ChemAlert* Storage Code: GRAY

Ammonium Chloride — USP/FCC/EP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A687-500**	126.30	6/524.50
2.5kg	Poly Bottle	**A687-212**	278.00	4/754.50
10kg	Poly Pail	**A687-10**	582.50	----

White Crystalline Powder; NH_4Cl
F.W. 53.49; [12125-02-9]; **Melting Point:** 328°C
Boiling Point: 520°C; **Density:** 1.53g/mL

ChemAlert* Storage Code: GRAY

Ammonium Chloride — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A649-500**	107.90	6/461.50
3kg	Poly Bottle	**A649-3**	305.50	4/881.00

Granular; NH_4Cl; **F.W.** 53.49; [12125-02-9]
Melting Point: 328°C; **Boiling Point:** 520°C; **Density:** 1.53g/mL

ChemAlert* Storage Code: GRAY

Ammonium Chloride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A661-500**	94.40	6/418.39
3kg	Poly Pail	**A661-3**	308.00	----
10kg	Poly Pail	**A661-10**	767.50	----

Crystalline; ≥99.5 %; Sal Ammoniac, NH_4Cl
F.W. 53.49; [12125-02-9]; **Melting Point:** 328°C
Boiling Point: 520°C; **Density:** 1.53g/mL

ChemAlert* Storage Code: GRAY

Ammonium Chloride-EDTA Solution

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**626-1**	178.00	----

For Nitrate by the Cadmium Reduction Method; Clear, colorless liquid [12125-02-9 (Ammonium Chloride), 1336-21-6 (Ammonium Hydroxide), 7732-18-5 (Water, Deionized)]

Ammonium Fluoride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**A665-100**	88.60	6/386.50
500g	Poly Bottle	**A665-500**	337.50	6/1485.00

Crystalline; ≥98.0 %; H_4FN; **F.W.** 37.04; [12125-01-8]
DOT Class 6.1: Poison; **UN** 2505

ChemAlert* Storage Code: BLUE

Ammonium Hydroxide — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	HDPE Bottle	**A470-250**	269.50	----
500mL	HDPE Bottle	**A470-500**	346.00	----
1L	HDPE Bottle	**A470-1**	595.50	----

Aqueous Ammonia, NH_4OH; **F.W.** 35.05; [1336-21-6]
DOT Class 8: Corrosive; **UN** 2672; Ideal for analysis by ICP-MS and high-resolution ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

CAUSTIC

ChemAlert* Storage Code: WHITE

Ammonium Hydroxide — TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	HDPE Bottle	**A512-P500**	88.50	----

Aqueous Ammonia, NH_4OH; **F.W.** 35.05; [1336-21-6]
DOT Class 8: Corrosive; **UN** 2672; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

CAUSTIC

ChemAlert* Storage Code: WHITE

Ammonium Hydroxide — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass	**A667-212**	172.80	----

Strong Ammonia Solution, Aqueous Ammonia, NH_4OH
NH_4OH; **F.W.** 35.05; [7664-41-7, 7732-18-5]
Melting Point: –69°C; **Boiling Point:** 27°C
Density: 0.89g/mL; **DOT Class 8**: Corrosive; **UN** 2672

CAUSTIC

ChemAlert* Storage Code: WHITE

Ammonium Hydroxide — Certified ACS Plus

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass	**A669-500**	89.60	6/398.76
500mL	Glass/Safe-Cote	**A669S-500**	97.60	6/285.00
6 x 2.5L	Glass	**A669C-212**	433.00	----
6 x 2.5L	Glass/Safe-Cote	**A669S-212**	497.00	----
2.5L	Glass	**A669-212**	204.50	----
385 lb.	Poly Drum	**A669-385LB**	2460.00	----

28.0 to 30.0 w/w %; Aqueous Ammonia, NH_4OH
NH_4OH; **F.W.** 35.05; [7664-41-7, 7732-18-5]
Melting Point: –69°C; **Boiling Point:** 27°C
Density: 0.89g/mL; **DOT Class 8**: Corrosive; **UN** 2672

CAUSTIC

ChemAlert* Storage Code: WHITE

Ammonium hydroxide — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC42330-5000**	35.45	176.40
2.5L	Glass Bottle	**AC42330-0025**	79.10	316.40

H_5NO; NH_4OH; **F.W.** 35.05; [1336-21-6, 7732-18-5]
Melting Point: – 57.0°C; **Boiling Point:** 38.0°C; **Density:** 0.9100g/mL
UN 2672

Fisher Scientific

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Prices subject to change.

Ammonium Hydroxide — Electronic Grade

Quantity	Packaging	Cat.No.	Each	Case of
20L	Cubitainer	**632-5**	229.00	----

Clear, colorless liquid; [7732-18-5, 1336-21-6]
Melting Point: Approx. -72°C; **Boiling Point:** Approx. 36°C

Ammonium Molybdate Tetrahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A674-500**	437.00	6/1877.00
3kg	Poly Bottle	**A674-3**	1970.00	4/5770.00
10kg	Poly Pail	**A674-10**	4870.00	----

Crystalline; 81.0 to 83.0 %; Ammonium Heptamolybdate Tetrahydrate, $(NH_4)_6Mo_7O_{24}{\cdot}4H_2O$; $(NH_4)_6Mo_7O_{24}{\cdot}4H_2O$
F.W. 1235.86; [12054-85-2]; **Melting Point:** 190°C; **Density:** 2.49g/mL

ChemAlert® Storage Code: BLUE

Ammonium Molybdate

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**665-16**	67.70	----

Clear, colorless liquid; [7732-18-5, 12054-85-2]

Ammonium Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A676-500**	100.50	6/440.47
2.5kg	Poly Bottle	**A676-212**	314.00	4/905.00

Granular; ≥98.0 %; NH_4NO_3; NH_4NO_3; **F.W.** 80.04; [6484-52-2]
Melting Point: 169°C; **Density:** 1.73g/mL; **DOT Class 5.1**: Oxidizer **UN** 1942; Decomposes at 210°C.

ChemAlert® Storage Code: YELLOW

Ammonium Oxalate

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**685-1**	161.20	----

Clear, colorless liquid; [7732-18-5, 6009-70-7]
Melting Point: Approx. -10°C

Ammonium Peroxydisulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A682-500**	103.60	6/456.00
3kg	Poly Bottle	**A682-3**	473.50	4/1372.00
10kg	Poly Pail	**A682-10**	839.98	----

Crystalline; ≥98.0 %; Ammonium Persulfate, APS, $(NH_4)_2S_2O_8$ $(NH_4)_2S_2O_8$; **F.W.** 228.19; [7727-54-0]; **Density:** 1.98g/mL
DOT Class 5.1: Oxidizer; **UN** 1444

ChemAlert® Storage Code: YELLOW

Ammonium Phosphate Dibasic — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A686-500**	171.50	6/714.50

Crystalline; ≥98.0 %; Ammonium Monohydrogen Phosphate, Diammonium Hydrogen Phosphate, Phosphoric Acid, Diammonium Salt, $(NH_4)_2HPO_4$; $(NH_4)_2HPO_4$; **F.W.** 132.06 [7783-28-0]; **Melting Point:** 235°C; **Density:** 1.62g/mL

ChemAlert® Storage Code: GRAY

Ammonium Phosphate Monobasic — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A684-500**	149.80	6/648.50
3kg	Poly Bottle	**A684-3**	575.00	4/1679.00

Crystalline; ≥98.0 %; Ammonium Acid Phosphate, Ammonium Dihydrogen Phosphate, $NH_4H_2PO_4$; $NH_4H_2PO_4$
F.W. 115.03; [7722-76-1]; **Melting Point:** 190°C; **Density:** 1.8g/mL

ChemAlert® Storage Code: GRAY

Ammonium Phosphate Monobasic — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A685-500**	123.10	6/514.00

Crystalline; Also meets ACS specifications; ≥98.0 % Phosphoric Acid Monoammonium Salt, Ammonium Dihydrogen Phosphate, $NH_4H_2PO_4$; $NH_4H_2PO_4$; **F.W.** 115.03; [7722-76-1]
Melting Point: 190°C; **Density:** 1.8g/mL

ChemAlert® Storage Code: GRAY

Ammonium Sulfate — Primary Standard

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A938-500**	85.80	6/373.50

Standard for Kjeldahl determination of nitrogen.; Crystalline 20.98 to 21.38 %; $(NH_4)_2SO_4$; $(NH_4)_2SO_4$; **F.W.** 132.14; [7783-20-2]
Melting Point: 280°C; **Density:** 1.77g/mL

ChemAlert® Storage Code: GRAY

Ammonium Sulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A702-500**	78.70	6/346.50
3kg	Poly Bottle	**A702-3**	281.00	4/823.50
10kg	Poly Pail	**A702-10**	498.00	----

Granular; ≥99.0 %; $(NH_4)_2SO_4$; $(NH_4)_2SO_4$; **F.W.** 132.14 [7783-20-2]; **Melting Point:** 280°C; **Density:** 1.77g/mL

ChemAlert® Storage Code: GRAY

Ammonium Sulfate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass Bottle	**A701-3**	132.50	4/389.00
50kg	Fiber Drum	**A701-50**	917.00	----

Granular; $(NH_4)_2SO_4$; **F.W.** 132.14; [7783-20-2]
Melting Point: 280°C; **Density:** 1.77g/mL

ChemAlert® Storage Code: GRAY

Ammonium sulfate — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bottle	**AC44645-0050**	100.10	----

99%; $H_8N_2O_4S$; $(NH_4)_2SO_4$; **F.W.** 132.14; [7783-20-2]
Melting Point: 280.0°C

Ammonium Sulfide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
225mL	Glass	**A705-225**	195.10	----
500mL	HDPE	**A705-500**	216.50	6/918.50

20 to 24 %; [12135-76-1]; **Flash Point:** 32.2°C/90°F
Density: >1; **DOT Class 8**: Corrosive; **UN** 2683

Aniline Blue — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**A967-25**	162.50	6/712.50

For use in histology.; Water Soluble; Acid Blue 93, Methyl Blue, Acid Blue, Soluble Blue, $C_{32}H_{25}N_3O_9S_3Na_2$
F.W. 799.8; [28631-66-5]; **C.I.** 42780

ChemAlert® Storage Code: GRAY

Barbituric Acid — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O1309-100**	127.10	6/527.50

Pyrimidine Trione, Malonylurea, $C_4H_4N_2O_3$
$NHCONHCOCH_2CO$; **F.W.** 128.09; [67-52-7]
Melting Point: 247.78°C; **Boiling Point:** 260°C

ChemAlert® Storage Code: GRAY

Barbituric Acid

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O1308-100**	139.20	6/581.00

≥98 %; Pyrimidine Trione, Malonylurea, $C_4H_4N_2O_3$
$NHCONHCOCH_2CO$; **F.W.** 128.09; [67-52-7]
Melting Point: 247.78°C; **Boiling Point:** 260°C

ChemAlert® Storage Code: GRAY

Barium Chloride Anhydrous — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**B31-100C**	56.10	6/247.00
500g	Poly Bottle	**B31-500**	157.80	6/654.50

Granular; ≥97 %; $BaCl_2$; **F.W.** 208.23; [10361-37-2]
Melting Point: 960°C; **Boiling Point:** 1560°C; **Density:** 3.86g/mL
DOT Class 6.1: Poison; **UN** 1564

ChemAlert® Storage Code: BLUE

Barium Chloride Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**B34-100**	70.10	6/318.00
500g	Poly Bottle	**B34-500**	152.60	6/670.50
3kg	Poly Bottle	**B34-3**	689.50	4/1994.00
10kg	Poly Pail	**B34-10**	1245.00	----

Crystalline; ≥99.0 %; $BaCl_2{\cdot}2H_2O$; **F.W.** 244.26; [10326-27-9]
Melting Point: 962°C; **Boiling Point:** 1560°C; **Density:** 3.86g/mL
DOT Class 6.1: Poison; **UN** 1564

ChemAlert® Storage Code: BLUE

Barium Chloride Dihydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Poly Pail	**B33-10**	348.50	----
50kg	Fiber Drum	**B33-50**	1047.61	----

Crystalline; $BaCl_2{\cdot}2H_2O$; **F.W.** 244.26; [10326-27-9]
Melting Point: 962°C; **Boiling Point:** 1560°C; **Density:** 3.86g/mL
DOT Class 6.1: Poison; **UN** 1564

ChemAlert® Storage Code: BLUE

Barium Chloride Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SB10-1**	99.56	6/434.94

10% w/w; [10361-37-2, 7732-18-5]
Density: 0.7 (Water = 1.0)

ChemAlert® Storage Code: GRAY

Barium Hydroxide Octahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**B46-500**	216.00	6/944.00

Crystalline; ≥98.0 %; $Ba(OH)_2{\cdot}8H_2O$; $Ba(OH)_2{\cdot}8H_2O$
F.W. 315.46; [12230-71-6]; **Melting Point:** 78°C; **Density:** 2.18g/mL
DOT Class 8: Corrosive; **UN** 2923

ChemAlert® Storage Code: WHITE

Barium Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**B53-500**	147.30	6/641.89

White Crystalline Powder; ≥99.0 %; Nitric Acid Barium Salt, $Ba(NO_3)_2$; $Ba(NO_3)_2$; **F.W.** 261.35; [10022-31-8]; **Melting Point:** 592°C
Density: 3.24g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1446

ChemAlert® Storage Code: YELLOW

Barium Sulfate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**B68-500**	268.50	6/1601.00

Powder; $BaSO_4$; **F.W.** 233.39; [7727-43-7]
Melting Point: 1,580°C; **Density:** 4.4g/mL

ChemAlert® Storage Code: GRAY

Benzalkonium chloride

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC26382-0010**	119.70	----

Alkyl-benzyl-dimethylammonium chloride,
$C_6H_5CH_2N(CH_3)_2RClR{=}C_8H_{17}toC_{18}H_{37}$; [8001-54-5, 7732-18-5]
Flash Point: 5a°C; **Boiling Point:** > 100.0°C; **Density:** 0.9800g/mL; **UN** 2922

Benzoic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A65-500**	212.50	6/930.50

Crystalline; ≥99.5 %; Phenyl Formic Acid, Benzenecarboxylic Acid, $C_7H_6O_2$; C_6H_5COOH
F.W. 122.12; [65-85-0]; **Melting Point:** 122.4°C
Boiling Point: 249.2°C

ChemAlert® Storage Code: GRAY

Bismuth Nitrate Pentahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**B337-500**	649.49	6/2708.88

Crystalline; ≥98.0 %; $Bi(NO_3)_3{\cdot}5H_2O$; $Bi(NO_3)_3{\cdot}5H_2O$
F.W. 485.07; [10035-06-0]; **Melting Point:** 30°C; **Density:** 2.83g/mL
DOT Class 5.1: Oxidizer; **UN** 1477

ChemAlert® Storage Code: YELLOW

Borate Buffer

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**1040-1**	115.10	----

Clear, colorless liquid; [7732-18-5, 1303-96-4, 1310-73-2]

Boric Acid — NF

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A78-500**	129.10	6/656.00

Crystalline; Orthoboric Acid, Borofax, H_3BO_3
F.W. 61.83; [10043-35-3]; **Melting Point:** 169°C; **Density:** 1.44g/mL

ChemAlert® Storage Code: GRAY

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Boric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A73-500**	122.00	6/537.50
1kg	Poly Bottle	**A73-1**	200.50	6/880.50
3kg	Poly Bottle	**A73-3**	498.00	4/1461.00
10kg	Poly Pail	**A73-10**	918.00	----
50kg	Fiber Drum	**A73-50**	2980.00	----

Crystalline; ≥99.5 %; Orthoboric Acid, Borofax, H_3BO_3
F.W. 61.83; [10043-35-3]; **Melting Point:** 169°C; **Density:** 1.44g/mL

ChemAlert® Storage Code GRAY

Boric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A74-500**	138.40	6/581.50
1kg	Poly Bottle	**A74-1**	225.00	4/658.50
3kg	Poly Pail	**A74-3**	554.00	----
10kg	Poly Pail	**A74-10**	1016.00	----

Powder; ≥99.5 %; Orthoboric Acid, Borofax, H_3BO_3
F.W. 61.83; [10043-35-3]; **Melting Point:** 169°C; **Density:** 1.44g/mL

ChemAlert® Storage Code GRAY

Boric Acid

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**1070-1**	74.80	----
10L	Cubitainer	**1070-25**	110.80	----
20L	Cubitainer	**1070-5**	197.90	----

Clear, reddish-orange colored liquid
[7732-18-5, 10043-35-3, 62625-32-5, 845-10-3]

Brilliant Green — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**B422-25**	119.00	6/525.00

Ethyl Green, Basic Green, Malachite Green G, $C_{27}H_{33}N_2 \cdot HSO_4$
F.W. 482.65; [633-03-4]; **C.I.** 42040; For use in bacteriology in media.

ChemAlert® Storage Code GRAY

Bromine — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
50mL	Amber Glass	**B385-50**	379.00	----
250mL	Amber Glass	**B385-250**	474.50	----

≥99.5 %; Br_2; **F.W.** 159.81; [7726-95-6]
Melting Point: –7.2°C; **Boiling Point:** 58.7°C
Density: 3.11g/mL; **DOT Class 8**: Corrosive; **UN** 1744

SOLVENT

ChemAlert® Storage Code WHITE

Bromine Number Titration Solvent

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass, Safety Cap	**1191-1**	322.50	----

Bromocresol Green — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**B383-5**	207.16	6/904.04

3',3',5',5'-Tetrabromo-m-cresol-sulfonephthalein,
$C_{21}H_{14}Br_4O_5S$; **F.W.** 698.04; [76-60-8]
Melting Point: 225°C

ChemAlert® Storage Code GRAY

Bromocresol Purple — Certified

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**B393-5**	93.50	6/406.65

5,5'dibromo-o-cresolsulfonphthalein, $C_{21}H_{16}Br_2O_5S$
F.W. 540.24; [115-40-2]; **Melting Point:** 240.00°C

ChemAlert® Storage Code GRAY

Bromocresol Purple — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Glass Bottle	**AC15133-0010**	983.30	----

Indicator; BCP, 5',5''-Dibromo-o-cresolsulfonephthalein, $C_{21}H_{16}Br_2O_5S$
F.W. 540.21; [115-40-2]; **Melting Point:** 245.0°C

Bromophenol Blue — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**B392-5**	110.20	6/459.00

3',3'',5', 5''-Tetrabromophenolsulfonephthalein,
4,4'-(3H-2,1-Benzoxathiol-3-ylidene) bis-[2,6-dibromophenol]
S,S-Dioxide, $C_{19}H_{10}Br_4O_5S$; $C_6H_4SO_2OC(C_6H_2\text{-}3,5\text{-}Br_2\text{-}4\text{-}OH)_2$
F.W. 669.96; [115-39-9]; **Melting Point:** 273°C

ChemAlert® Storage Code GRAY

Bromophenol Blue Solution, 0.04% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SI12-500**	132.54	6/577.86

Solution of bromophenol blue sodium salt for colorimetric determinations.; 0.04%; [62625-28-9, 7732-18-5]

ChemAlert® Storage Code GRAY

Bromothymol Blue — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**B388-10**	253.50	6/1107.00

3',3''-Dibromothymolsulfonephthalein, $C_{27}H_{27}Br_2O_5SNa$
F.W. 624.4; [76-59-5]

ChemAlert® Storage Code GRAY

Bromothymol Blue Solution, 0.04% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SI22-500**	95.90	6/423.50

Solution of bromothymol blue sodium salt for colorimetric determinations.; 0.04%; [34722-90-2, 7732-18-5, 64-02-8]
Melting Point: 0°C; **Density:** 1g/mL

ChemAlert® Storage Code GRAY

BufferPac* Color-Coded Solutions — Certified

Quantity	Packaging	Cat.No.	Each	Case of
3 x 500mL	Poly Bottles	**SB105**	104.90	6/474.50

[50-00-0]; **Melting Point:** 0°C; Pack contains 1 each: SB101-500, pH 4.00 (Red), SB107-500, pH 7.00 (Yellow), SB115-500, pH 10.00 (Blue).

Buffer Solution, TISAB

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SB175-4**	229.00	4/722.50

[7647-14-5, 127-09-3, 482-54-2, 9003-39-8, 52-51-7]

ChemAlert® Storage Code GRAY

Buffer Solution, Total Ionic Strength Adjustment Buffer (TISAB II)

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**8670-32**	116.60	----
4L	Poly Natural	**8670-1**	195.10	----
10L	Cubitainer	**8670-25**	496.50	----
20L	Cubitainer	**8670-5**	769.00	----

For Fluoride Analysis using Ion Selective Electrode
[7732-18-5, 1310-73-2, 64-19-7, 7647-14-5, 13291-61-7]

Buffer Solution, pH 1.01 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB140-500**	61.50	6/284.50

[7447-40-7, 7647-01-0, 50-00-0, 67-56-1, 7732-18-5]
Melting Point: 0°C; **Density:** 0.7 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 1789

ChemAlert* Storage Code GRAY

Buffer Solution, pH 2.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB96-500**	42.95	6/199.70
1L	Poly Bottle	**SB96-1**	74.90	6/347.50
20L	PolyPac	**SB96-20**	343.33	----

[7447-40-7, 7647-01-0, 50-00-0, 67-56-1, 7732-18-5]
Melting Point: 0°C; **Density:** 0.7; **DOT Class 8**: Corrosive; **UN** 1789

ChemAlert* Storage Code GRAY

pH 2 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF2-500**	30.45	----

[Various]; **Hazardous**

Buffer Solution, pH 3.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB97-500**	46.30	6/211.50
20L	PolyPac	**SB97-20**	365.90	----

[877-24-7, 7647-01-0, 50-00-0, 67-56-1, 7732-18-5]
Melting Point: 0°C; **Density:** 0.7g/mL

ChemAlert* Storage Code GRAY

pH 3 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF3-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Solution, pH 4.00, Color-Coded Red — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB101-500**	39.47	6/177.12
4L	Poly Bottle	**SB101-4**	135.50	4/426.50
20L	PolyPac	**SB101-20**	289.00	----

[50-00-0, 67-56-1, 877-24-7, 7732-18-5, 16423-68-0]
Melting Point: 0°C; **Density:** 0.7 (Water = 1.0); pH/temperature conversions given on label.

ChemAlert* Storage Code GRAY

Buffer, Precision Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**1502-16**	37.45	----

[877-24-7]

Buffer, Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic	**1501-32**	37.85	----
10L	Cubitainer	**1501-25**	184.70	----
20L	Cubitainer	**1501-5**	157.00	----

[7732-18-5, 877-24-7]

Buffer Solution, pH 4.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB98-500**	43.80	6/197.53
1L	Poly Bottle	**SB98-1**	70.10	6/321.50
10L	PolyPac	**SB98-10**	267.96	----
20L	PolyPac	**SB98-20**	386.83	----

[877-24-7, 7732-18-5, 50-00-0, 67-56-1]
Density: 1.01g/mL

ChemAlert* Storage Code GRAY

pH 4 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF4-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Solution (Acetate), pH 4.01 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SB85-1**	74.40	6/340.00

For use with chlorine titrators.; Chlorine Titrimeter Reagent, [64-19-7, 127-09-3, 50-00-0, 67-56-1, 7732-18-5]; **Density:** 1g/mL

ChemAlert* Storage Code GRAY

Buffer Concentrate, pH 4.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB99-500**	112.30	6/494.50
1L	Poly Bottle	**SB99-1**	186.20	6/806.50

Concentrate; [877-24-7, 50-00-0, 67-56-1, 7732-18-5]
Melting Point: 0°C; **Density:** 0.7

ChemAlert* Storage Code GRAY

Buffer Salt, pH 4.02 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
12 packets per pack	Envelopes	**B79**	138.40	6/606.00

>99%; $C_8H_5KO_4$; [877-24-7]; **Melting Point:** 298°C
Density: 1.64g/mL; Each packet contains sufficient material to prepare 1 liter of solution with a pH of 4.01 ± 0.02 at 25°C.

ChemAlert* Storage Code GRAY

Buffer Solution (Acetate), pH 4.0-4.6 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
20L	PolyPac	**SB103-20**	675.50	----

For sewage treatment work.; [64-19-7, 6131-90-4, 7732-18-5]
Flash Point: 112.8°C/235°F

ChemAlert* Storage Code GRAY

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Buffer Solution, pH 4.64 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SB100-1**	81.30	6/357.50

[64-19-7, 6131-90-4, 50-00-0, 67-56-1, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL

ChemAlert® Storage Code GRAY

Buffer Solution, pH 5.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB102-500**	43.95	6/202.50
1L	Poly Bottle	**SB102-1**	65.80	6/296.50

[877-24-7, 1310-73-2, 7732-18-5]
Melting Point: 0°C

ChemAlert® Storage Code GRAY

pH 5 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF5-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Solution, pH 6.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB104-500**	46.00	6/209.00
1L	Poly Bottle	**SB104-1**	79.60	6/361.50
20L	PolyPac	**SB104-20**	380.01	----

[7778-77-0, 7732-18-5, 1310-73-2]
Melting Point: 0°C; **Density:** 0.7

ChemAlert® Storage Code GRAY

pH 6 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF6-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Solution, pH 6.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB106-500**	54.24	6/239.10

Concentrate; [7558-80-7, 1310-73-2, 50-00-0, 67-56-1, 7732-18-5]
Melting Point: 0°C; Potassium Phosphate Monobasic/Sodium Hydroxide.
pH is 6.00 ±0.02 at 25°C when 1 volume is diluted with 9 volumes of distilled water.

ChemAlert® Storage Code GRAY

Buffer Solution, pH 7.00, Color-Coded Yellow — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB107-500**	38.49	6/172.75
4L	Poly Bottle	**SB107-4**	134.50	4/427.54
20L	PolyPac	**SB107-20**	288.00	----

[7778-77-0, 1310-73-2, 7732-18-5, 1934-21-0]
Melting Point: 0°C; **Density:** 1g/mL; Potassium Phosphate Monobasic/Sodium Hydroxide.
pH/temperature conversions given on label.

ChemAlert® Storage Code GRAY

Buffer, Precision Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Plastic	**1552-16**	36.85	----

Buffer, Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Plastic	**1551-16**	22.45	----
1L	Plastic	**1551-32**	37.75	----
4L	Plastic	**1551-1**	76.70	----
4L	Cubitainer	**1551-1CT**	79.20	----
10L	Cubitainer	**1551-25**	113.80	----
20L	Cubitainer	**1551-5**	154.40	----

[7732-18-5, 7558-79-4, 7778-77-0]

Buffer Solution, pH 7.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB108-500**	44.05	6/198.20
1L	Poly Bottle	**SB108-1**	67.50	6/303.50
10L	PolyPac	**SB108-10**	304.97	----
20L	PolyPac	**SB108-20**	439.45	----

Chlorine Titrimeter Reagent, [7778-77-0, 1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL; Potassium Phosphate Monobasic/Sodium Hydroxide.

ChemAlert® Storage Code GRAY

pH 7 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF7-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Concentrate, pH 7.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB109-500**	113.20	6/498.50
1L	Poly Bottle	**SB109-1**	190.70	6/826.00

Concentrate; [64-02-8, 7732-18-5, 1310-58-3, 1310-73-2, 7664-38-2]
Potassium Phosphate Monobasic/Sodium Hydroxide.
pH is 7.00 ±0.02 at 25°C when 1 volume is diluted with 25 volumes of distilled water.

ChemAlert® Storage Code GRAY

Buffer solution pH 7

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC25859-0010**	54.50	----

pH buffer; [, 7558-79-4, 7732-18-5]

Buffer Solution (Phosphate), pH 7.21

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SP341-1**	78.20	6/349.50

[7758-11-4, 7558-79-4, 7778-77-0, 12125-02-9, 7732-18-5]
Melting Point: 0°C

ChemAlert® Storage Code GRAY

Buffer Solution, pH 7.40 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB110-500**	49.85	6/230.50
1L	Poly Bottle	**SB110-1**	84.90	6/372.00

[7778-77-0, 64-02-8, 7732-18-5, 7758-11-4]; **Melting Point:** 0°C **Density:** 1g/mL; Potassium Phosphate Monobasic/Sodium Hydroxide.

ChemAlert* Storage Code GRAY

Buffer Salt, pH 7.42 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
12 packets per pack	Envelopes	**B82**	143.20	6/624.00

Potassium Phosphate Monobasic/Sodium Phosphate Dibasic, [7558-79-4, 7778-77-0]; Each packet contains sufficient material to prepare 1 liter of solution with a pH of 7.41 ±0.04 at 25°C.

ChemAlert* Storage Code GRAY

Buffer Solution, pH 8.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB112-500**	43.45	6/196.30
1L	Poly Bottle	**SB112-1**	67.00	6/296.00
20L	PolyPac	**SB112-20**	352.92	----

[1310-73-2, 7778-77-0, 7732-18-5]; Potassium Phosphate Monobasic/Sodium Hydroxide.

ChemAlert* Storage Code GRAY

pH 8 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF8-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Solution, pH 9.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB114-500**	44.30	6/201.50
1L	Poly Bottle	**SB114-1**	75.40	6/341.00
20L	PolyPac	**SB114-20**	387.84	----

[7447-40-7, 10043-35-3, 1310-73-2, 64-02-8, 7732-18-5] **Melting Point:** 0°C; **Density:** 0.7; Boric Acid/Potassium Chloride/ Sodium Hydroxide.

ChemAlert* Storage Code GRAY

Buffer, Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**1590-1**	94.90	----

Clear, colorless liquid; [10043-35-3 (Boric Acid), 7447-40-7 (Potassium Chloride), 1310-73-2 (Sodium Hydroxide), 7732-18-5 (Water, Deionized)];

pH 9 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF9-500**	30.45	----

[Various]; **Non-Hazardous**

Buffer Salt, pH 9.19 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
12 envelopes per pack	Envelopes	**B80**	140.80	6/613.76

Sodium Tetraborate Decahydrate, $B4Na_2O_7 \cdot 10H_2O$; [1303-96-4] **Melting Point:** 741°C; **Boiling Point:** 1575°C; **Density:** 1.73g/mL Each packet contains sufficient material to prepare 1 liter of solution with a pH of 9.18 ±0.02 at 25°C.

ChemAlert* Storage Code GRAY

Buffer Solution, pH 10.00, Color-Coded Blue — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB115-500**	40.03	6/179.66
4L	Poly Bottle	**SB115-4**	141.20	4/444.50
20L	PolyPac	**SB115-20**	291.91	----

[7732-18-5, 6381-92-6, 584-08-7, 1332-77-0, 1310-58-3] **Melting Point:** 0°C; **Density:** 1.01g/mL; Potassium Carbonate/ Potassium Tetraborate/ Potassium Hydroxide/Disodium EDTA Dihydrate.
pH/temperature conversions given on label.

ChemAlert* Storage Code GRAY

Buffer, Precision Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Plastic	**1602-16**	37.15	----

Buffer, Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**1601-16**	23.10	----
4L	Poly Bottle	**1601-1**	76.20	----
4L	Cubitainer	**1601-1CT**	78.90	----
10L	Cubitainer	**1601-25**	116.80	----
20L	Cubitainer	**1601-5**	159.70	----

[7732-18-5, 497-19-8, 144-55-8]

Buffer Solution, pH 10.00 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB116-500**	45.45	6/203.00
1L	Poly Bottle	**SB116-1**	71.60	6/323.00
10L	PolyPac	**SB116-10**	236.16	----
20L	PolyPac	**SB116-20**	357.09	----

[6381-92-6, 584-08-7, 1310-58-3, 7732-18-5, 12228-88-5] Potassium Carbonate/Potassium Tetraborate/Potassium Hydroxide/Disodium EDTA Dihydrate.

ChemAlert* Storage Code GRAY

pH 10 Buffer Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PHBUFF10-500**	30.45	----

[Various]; **Hazardous**

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Buffer Concentrate, pH 10.01 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB141-500**	112.60	6/489.00

Concentrate
[7447-40-7, 1310-73-2, 139-33-3, 7732-18-5, 10043-35-3]
Boric Acid/Potassium Chloride/Sodium Hydroxide.
pH is 10.00 ±0.02 at 25°C when 1 volume is diluted with 9 volumes of distilled water.

ChemAlert® Storage Code GRAY

Buffer Concentrate, pH 11.01 — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SB142-500**	118.50	6/518.00

Concentrate; [56-40-6, 7647-14-5, 1310-73-2, 139-33-3, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL; Glycine/Sodium Chloride/Sodium Hydroxide/Disodium EDTA.
pH is 11.00 ±0.02 at 25°C when 1 volume is diluted with 9 volumes of distilled water.

ChemAlert® Storage Code GRAY

Buffer Solution — Certified APHA Standard

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SB119-1**	101.40	6/448.00

[1336-21-6, 12125-02-9, 6381-92-6, 7791-18-6, 7732-18-5]
Melting Point: –35.00°C; **Density:** 0.96g/mL
DOT Class 8: Corrosive; **UN** 3266

ChemAlert® Storage Code WHITE

Buffer Solution (Phosphate)

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**5805-32**	59.50	----
4L	Poly Natural	**5805-1**	186.50	----

[7778-77-0 (Potassium Phosphate, Monobasic), 7558-79-4 (Sodium Phosphate, Dibasic), 7487-94-7 (Mercuric Chloride), 7732-18-5 (Water, Deionized)]

1-Butanol — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass, EcoSafPak	**A383-1**	112.10	6/431.00
1L	Amber Glass/Safe-Cote	**A383SK-1**	124.30	6/481.00
4L	Amber Glass, EcoSafPak	**A383-4**	314.50	4/815.50
4L	Amber Glass/Safe-Cote, EcoSafPak	**A383SK-4**	334.00	4/846.00

Also meets ACS specifications; ≥99.4 %
n-Propyl Carbinol, n-Butyl Alcohol, $C_4H_{10}O$
$CH_3CH_2CH_2CH_2OH$; **F.W.** 74.12; [71-36-3]
Melting Point: –89.5°C; **Flash Point:** 35°C/95°F
Boiling Point: 116°C; **Density:** 2.6 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1120

SOLVENT — ChemAlert® Storage Code RED

1-Butanol — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A399-500**	81.10	6/348.50
1L	Glass Bottle	**A399-1**	148.20	6/626.50
4L	Glass Bottle	**A399-4**	264.00	4/755.00
4L	Aluminum Can	**A399S-4**	328.85	4/941.54
20L	Steel Pail	**A399-20**	627.00	----

clear liquid; Suitable for fluorometric analysis
≥99.4 %; n-Butyl Alcohol, Butyl alcohol,
$C_4H_{10}O$ $CH_3CH_2CH_2CH_2OH$; **F.W.** 74.12; [71-36-3]
Melting Point: –89.5°C; **Flash Point:** 35°C/95°F
Boiling Point: 116°C; **Density:** 2.6 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1120; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.
Suitable for fluorometric analysis.

SOLVENT — ChemAlert® Storage Code RED

1-Butanol — Technical Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A398-4**	206.50	4/551.00

n-Butyl Alcohol, $C_4H_{10}O$; $CH_3CH_2CH_2CH_2OH$
F.W. 74.12; [71-36-3]; **Melting Point:** –89.5°C
Flash Point: 35°C/95°F; **Boiling Point:** 116°C
Density: 2.6 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1120

SOLVENT — ChemAlert® Storage Code RED

sec-Butanol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O1664-1**	178.10	6/724.50
4L	Glass Bottle	**O1664-4**	312.00	4/847.50

sec-Butyl Alcohol, 2-Butanol, $C_4H_{10}O$; $CH_3CHOHCH_2CH_3$
F.W. 74.12; [78-92-2]; **Melting Point:** –115°C
Flash Point: 23°; **Boiling Point:** 99.5°C
Density: 0.81g/mL; **DOT Class 3**: Flammable Liquid
UN 1120

SOLVENT — ChemAlert® Storage Code RED

tert-Butanol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**A401-500**	106.00	6/446.50
1L	Poly Bottle	**A401-1**	137.80	6/552.50

2-Methyl-2-propanol, Trimethyl Carbinol, $C_4H_{10}O$
$(CH_3)_3COH$; **F.W.** 74.12; [75-65-0]
Melting Point: 25° to 25.5°C/77° to 77.9°F
Flash Point: 11°C/51.8°F; **Boiling Point:** 83°C
Density: 2.6 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1120; tert-Butyl Alcohol

SOLVENT — ChemAlert® Storage Code RED

tert-Butanol — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC10771-0010**	65.80	----
2.5L	Metal can	**AC10771-0025**	120.20	----

99.5%; tert-Butyl alcohol, 2-Methyl-2-propanol, $C_4H_{10}O$
$(CH_3)_3COH$; **F.W.** 74.12; [75-65-0]; **Melting Point:** 25.0°C to 25.5°C
Flash Point: 11°C; **Boiling Point:** 83.0°C; **Density:** 0.7800g/mL
n: 1.3860 to 1.3880; **UN** 1120

n-Butyllithium

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC18127-1000**	41.10	----
800mL	AcroSeal® Glass Bottle	**AC18127-8000**	113.30	----

C_4H_9Li; $CH_3(CH_2)_3Li$; **F.W.** 64.06; [109-72-8, 110-54-3]; **Melting Point:** – 95.0°C
Flash Point: –18°C; **Boiling Point:** 60.0°C to 80.0°C; **Density:** 0.6800g/mL
UN 3399

n-Butyllithium

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC21335-1000**	46.40	----
800mL	AcroSeal® Glass Bottle	**AC21335-8000**	124.90	----

C_4H_9Li; $CH_3(CH_2)_3Li$; **F.W.** 64.06; [109-72-8, 110-54-3]; **Melting Point:** – 95.0°C
Flash Point: –21°C; **Boiling Point:** 60.0°C to 80.0°C; **Density:** 0.6900g/mL
UN 3394

n-Butyric acid

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC10811-0100**	345.62	----

99+%; $C_4H_8O_2$; $CH_3CH_2CH_2CO_2H$; **F.W.** 88.11; [107-92-6]
Melting Point: – 7.0°C to 5.0°C; **Flash Point:** 69°C
Boiling Point: 162.0°C to 165.0°C; **Density:** 0.9600g/mL; **n:** 1.3965 to 1.3995
UN 2820

Cadmium — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C3-500**	273.00	6/1191.00

Granular; Cd; **F.W.** 112.41; [7440-43-9]; **Melting Point:** 321°C
Boiling Point: 765°C; **Density:** 8.64g/mL
DOT Class 6.1: Poison; **UN** 2930

ChemAlert® Storage Code RED

Calcium Acetate Monohydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C46-500**	341.50	6/1488.00

Powder; Acetic Acid Calcium Salt, $CaC_4H_6O_4{\cdot}1H_2O$
$Ca(CH_3COO)_2{\cdot}H_2O$; **F.W.** 176.18; [5743-26-0]
Melting Point: 160.00°C; **Density:** 1.5g/mL

ChemAlert® Storage Code GRAY

Calcium Carbonate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C64-500**	357.00	4/1417.00
3kg	Poly Pail	**C64-3**	1247.00	----

Powder; ≥99.0 %; Kalkspar, Carbonic Acid Calcium Salt,
$CaCO_3$; **F.W.** 100.09; [471-34-1]; **Melting Point:** 825°C
Density: 2.7g/mL

ChemAlert® Storage Code GRAY

Calcium Carbonate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Pail	**C63-3**	236.50	----
10kg	Fiber Drum	**C63-10**	614.00	----

Powder; Chalk, Precipitated, $CaCO_3$
F.W. 100.09; [471-34-1]; **Melting Point:** 825°C; **Density:** 2.7g/mL

ChemAlert® Storage Code GRAY

Calcium Chloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C77-500**	304.50	6/1318.00

Desiccant, 20 Mesh and Finer; ≥96 %; $CaCl_2$
F.W. 110.99; [10043-52-4]; **Melting Point:** 782°C
Boiling Point: 1600°C; **Density:** 2.15g/mL

ChemAlert® Storage Code GRAY

Calcium Chloride Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C614-500**	150.20	6/630.50
3kg	Poly Bottle	**C614-3**	527.50	4/1541.00
10kg	Poly Pail	**C614-10**	1109.18	----

Pellets; $CaCl_2$; **F.W.** 110.99; [10043-52-4]
Melting Point: 782°C; **Boiling Point:** 1600°C
Density: 2.15g/mL

ChemAlert® Storage Code GRAY

Calcium Chloride Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C79-500**	129.50	6/543.29
3kg	Poly Bottle	**C79-3**	463.00	4/1325.00

99.0 to 105.0 %; $CaCl_2{\cdot}2H_2O$; **F.W.** 147.01; [10035-04-8]
Melting Point: 175°C; **Density:** 0.83g/mL

ChemAlert® Storage Code GRAY

Calcium Chloride Dihydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C70-500**	156.90	6/653.00

Fine, White Granules; $CaCl_2{\cdot}2H_2O$; **F.W.** 147.01
[10035-04-8]; **Melting Point:** 175°C; **Density:** 0.83g/mL

ChemAlert® Storage Code GRAY

Calcium Chloride Dihydrate — USP/FCC/EP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C69-500**	153.10	6/640.50

White Crystalline Powder; $CaCl_2{\cdot}2H_2O$
F.W. 147.01; [10035-04-8]; **Melting Point:** 175°C; **Density:** 0.83g/mL

ChemAlert® Storage Code GRAY

Calcium chloride dihydrate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC42352-0025**	164.00	----

Adsorbent; 99+%; $CaCl_2{\cdot}2H_2O$; $CaCl_2{\cdot}2H_2O$
F.W. 147.02; [10035-04-8]; **Melting Point:** 175.0°C; **Density:** 0.8300g/mL

Calcium Chloride Hexahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C78-500**	146.10	6/639.00

Crystalline; 99 to 103 %; $CaCl_2{\cdot}6H_2O$; **F.W.** 219.08; [7774-34-7]
Melting Point: 30°C; **Density:** 1.71g/mL
Recommended Storage: Refrigerate

ChemAlert® Storage Code GRAY

Calcium Chloride Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SC10-1**	135.20	6/590.00

$CaCl_2$; [10043-52-4, 7732-18-5]
Melting Point: 0°C; For biochemical oxygen demand.

ChemAlert® Storage Code GRAY

Fisher Scientific

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Prices subject to change.

Calcium Hypochlorite — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C100-500**	140.20	6/586.50

Granular; Chlorinated Lime, Calcium Oxychloride, Hypochlorous Acid Calcium Salt, $CaCl_2O_2$; $Ca(OCl)_2$
F.W. 142.98; [7778-54-3]; **Melting Point:** 100°C; **Density:** 2.35g/mL
DOT Class 5.1: Oxidizer; **UN** 1748

ChemAlert® Storage Code YELLOW

Calcium Nitrate Tetrahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C109-500**	144.00	6/604.00
3kg	Poly Bottle	**C109-3**	547.42	4/1568.28

Crystalline; 99 to 103 %; $Ca(NO_3)_2{\cdot}4H_2O$; $Ca(NO_3)_2{\cdot}4H_2O$
F.W. 236.15; [13477-34-4]; **Melting Point:** 45°C
Density: 1.82g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1454

ChemAlert® Storage Code YELLOW

Calcium Oxide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C117-500**	92.30	6/400.00

Powder; Lime, Quicklime, Burnt Lime, Lime, Unslaked, CaO
F.W. 56.08; [1305-78-8]; **Melting Point:** 2570°C
Boiling Point: 2850°C; **Density:** 3.3g/mL; **DOT Class 8**: Corrosive
UN 1910

ChemAlert® Storage Code WHITE

Calcium Oxide — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass	**C114-3**	256.51	4/728.63

Powder; Quicklime, CaO; **F.W.** 56.08; [1305-78-8]
Melting Point: 2570°C; **Boiling Point:** 2850°C; **Density:** 3.3g/mL
DOT Class 8: Corrosive; **UN** 1910

ChemAlert® Storage Code WHITE

Calcium phosphate

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Plastic Bottle	**AC44639-0010**	88.40	----

96%; $Ca_3O_8P_2$; **F.W.** 310.18; [7758-87-4]; **Melting Point:** 1670°C

Calcium sulfate dihydrate

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Plastic Bottle	**AC44638-0010**	39.00	----
5kg	Plastic Bottle	**AC44638-0050**	153.00	----

98+%; $CaO_4S{\cdot}2H_2O$; **F.W.** 172.17; [10101-41-4]

Calcium sulfate dihydrate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC31525-5000**	104.20	----

98+%; $CaO_4S{\cdot}2H_2O$; $CaSO_4{\cdot}2H_2O$
F.W. 172.17; [10101-41-4]

Carbon Disulfide — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**C184-500**	115.29	6/504.76
2.5L	Glass	**C184-212**	805.01	----

≥99.9 %; Carbon Bisulfide, CS_2; **F.W.** 76.14; [75-15-0]
Melting Point: –111°C; **Flash Point:** –30°
Boiling Point: 46°C; **Density:** 1.26g/mL
DOT Class 3: Flammable Liquid; **UN** 1131

SOLVENT

ChemAlert® Storage Code RED

Carbon Disulfide — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**C573-500**	77.80	6/323.50

Also meets ACS specifications; ≥99.9 %
Carbon Bisulfide, CS_2; **F.W.** 76.14; [75-15-0]
Melting Point: –111°C; **Flash Point:** –30°
Boiling Point: 46°C; **Density:** 1.26g/mL
DOT Class 3: Flammable Liquid; **UN** 1131; For use in ultraviolet and infrared spectroscopy.

SOLVENT

ChemAlert® Storage Code RED

Carborundum

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C192-500**	86.62	6/360.90

Powder; Silicon Carbide, SiC; CSi
F.W. 40.07; [409-21-2]; **Melting Point:** 2700°C; **Density:** 3.2g/mL

ChemAlert® Storage Code GRAY

Carbowax* PEG 401 — NF

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**P167-1**	158.50	6/691.00

Polyethylene Glycol, Macrogol, PEG, $C_2H_4OnH_2O$
F.W. 380 to 420; [25322-68-3]; **Melting Point:** 8°C
Density: 1.13g/mL; Polyethylene Glycol.

ChemAlert® Storage Code GRAY

Carbowax* PEG 3350

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**P146-3**	368.00	----

Powder; Polyethylene Glycol, Macrogol, HO-[CH_2CH_2O]n-H
F.W. 3015 to 3685; [25322-68-3]; **Melting Point:** 54°C
Boiling Point: 200°C; **Density:** 1.2g/mL; Polyethylene Glycol.

ChemAlert® Storage Code GRAY

Carbowax* PEG 8000

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P156-500**	101.20	6/443.85
3kg	Poly Pail	**P156-3**	341.50	----

Powder; Polyethylene Glycol, Macrogol, HO-[CH_2CH_2O]n-H
F.W. 7000 to 9000; [25322-68-3]
Melting Point: 55° to 60°C/131° to 140°F; **Flash Point:** 270°C/518°F
Boiling Point: 200°C
Density: 1.1g/mL; Polyethylene Glycol.

ChemAlert® Storage Code GRAY

Castor Oil — USP

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O46-4**	334.50	4/928.50

Ricinus Oil, [8001-79-4]; **Melting Point:** –10°C
Boiling Point: 313°C; **Density:** 0.96g/mL

ChemAlert® Storage Code GRAY

Celite* Standard Super-Cel* NF

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC20635-0050**	340.70	----

Filter aid; Celite* 521, Infusorial earth, Diatomite, Diatomaceous earth, O_2Si; **F.W.** 60.08; [61790-53-2]

Cellulose microcrystalline

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC38724-0050**	311.90	----

Filter aid; [9004-34-6]

Ceric Ammonium Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass	**C248-500**	487.51	6/2116.38

Crystalline; ≥98.5 %
Cerium (IV) Ammonium Nitrate, $Ce(NO_3)_4 \cdot 2NH_4NO_3$
$(NH_4)_2Ce(NO_3)_6$; **F.W.** 548.22; [16774-21-3]
Melting Point: 107° to 108°C/224.6° to 226.4°F
DOT Class 5.1: Oxidizer; **UN** 1477

ChemAlert* Storage Code: YELLOW

Ceric Ammonium Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**1890-1**	165.30	----

Clear, orange liquid; [7732-18-5, 10378-47-9, 7664-93-9]

Ceric Sulfate Solution, 0.1N (N/10) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SC66-1**	133.85	6/594.27

Cerium (IV) Sulfate Solution, 0.1N,
[13590-82-4, 7664-93-9, 7732-18-5]; **Density:** 1.1g/mL
DOT Class 8: Corrosive; **UN** 2796

ChemAlert* Storage Code: WHITE

Cesium carbonate — For analysis

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC19204-0025**	1498.00	----

99.5%; CCs_2O_3; Cs_2CO_3; **F.W.** 325.82; [534-17-8]
Melting Point: 610.0°C; **Density:** 4.0720g/mL

Cesium Chloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**C24-25**	309.50	6/1344.00

Crystalline; ≥99.9 %; CsCl; **F.W.** 168.36; [7647-17-8]
Melting Point: 646°C; **Boiling Point:** 1303°C; **Density:** 3.99g/mL

ChemAlert* Storage Code: GRAY

Chloramine T Trihydrate — Powder

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**O1779-250**	129.60	6/542.00

$C_7H_7ClNNaO_2S \cdot 3H_2O$; **F.W.** 281.69; [7080-50-4]
Melting Point: 167° to 177°C; **Density:** 1.43g/mL

ChemAlert* Storage Code: WHITE

Chlorobenzene — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**B255-500**	80.50	6/332.83
1L	Glass Bottle	**B255-1**	138.50	6/575.50

Monochlorobenzene, Benzene Chloride, C_6H_5Cl
F.W. 112.56; [108-90-7]; **Melting Point:** –45°C
Flash Point: 23°C/73.4°F; **Boiling Point:** 131°C
Density: 3.9 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1134

SOLVENT — ChemAlert* Storage Code: RED

Chlorobenzene — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**B254-4**	255.00	4/706.00
20L	Steel Pail	**B254-20**	656.44	----

Monochlorobenzene, Benzene Chloride, C_6H_5Cl
F.W. 112.56; [108-90-7]; **Melting Point:** –45°C
Flash Point: 23°C/73.4°F; **Boiling Point:** 131°C
Density: 3.9 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1134

SOLVENT — ChemAlert* Storage Code: RED

Chloroform — Optima

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**C297-4**	368.92	4/869.17

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC; Trichloromethane, $CHCl_3$; **F.W.** 119.38; [67-66-3, 513-35-9]
Melting Point: –63°C; **Boiling Point:** 60.5° to 61.5°C
Density: 1.49g/mL; **DOT Class 6.1**: Poison; **UN** 1888; High purity and versatile solvent for HPLC, GC and pesticide residue analysis.
High UV transmittance and low evaporation residue.
Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.

SOLVENT — ChemAlert* Storage Code: BLUE

Chloroform — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**C607-1**	823.50	----
1L	Glass Bottle/ Safe-Cote	**C607SK-1**	602.00	----
4L	Glass Bottle	**C607-4**	264.50	4/674.00
4L	Glass Bottle/ Safe-Cote	**C607SK-4**	412.00	4/1055.00

Mobile phase for HPLC applications.; 99.8% min by GC
Trichloromethane, $CHCl_3$
F.W. 119.38; [67-66-3, 513-35-9]; **Melting Point:** –63°C
Boiling Point: 61° to 61°C/141.8° to 142.7°F
Density: 4.12 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1888; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions.

SOLVENT — ChemAlert* Storage Code: BLUE

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Chloroform — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**C606-1**	693.00	----
1L	Glass Bottle/ Safe-Cote	**C606SK-1**	535.39	----
4L	Glass Bottle	**C606-4**	225.89	4/819.60
4L	Glass Bottle/ Safe-Cote	**C606SK-4**	312.00	4/816.50

Mobile phase for HPLC applications.; 99.8% min by GC
Trichloromethane, $CHCl_3$
F.W. 119.38; [67-66-3, 64-17-5]; **Melting Point:** –63°C
Boiling Point: 60.5° to 61.5°C/140.9° to 142.7°F
Density: 4.12 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1888; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions.

SOLVENT — ChemAlert® Storage Code BLUE

Chloroform — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**C574-1**	982.00	----
4L	Glass Bottle	**C574-4**	504.00	4/1398.00
4L	Glass Bottle/ Safe-Cote	**C574SK-4**	547.50	4/1519.00

Also meets ACS specifications; ≥99.8 %
Trichloromethane, $CHCl_3$
F.W. 119.38; [67-66-3, 64-17-5]; **Melting Point:** –63°C
Boiling Point: 60.5° to 61.5°C/140.9° to 142.7°F
Density: 4.12 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1888

SOLVENT — ChemAlert® Storage Code BLUE

Chloroform — Technical Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**C295-4**	378.00	4/1046.00
20L	Steel Pail	**C295-20**	1143.00	----

Trichloromethane, $CHCl_3$; **F.W.** 119.38; [67-66-3, 64-17-5]
Melting Point: –63°C
Boiling Point: 60.5° to 61.5°C/140.9° to 142.7°F
Density: 4.12 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1888;

SOLVENT — ChemAlert® Storage Code BLUE

Chloroform — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**C298-500**	70.20	6/339.00
1L	Glass Bottle	**C298-1**	707.26	----
4L	Glass Bottle	**C298-4**	378.70	4/1514.80
4L	Aluminum Can	**C298S-4**	460.50	4/1268.00
4L	Glass Bottle/Safe-Cote	**C298SK-4**	399.00	4/1104.00
200L	Steel Drum	**C298-200**	5910.00	----

Clear, Colorless Liquid; ≥99.8 %; Trichloromethane, $CHCl_3$; **F.W.** 119.38; [67-66-3, 64-17-5]
Melting Point: –63°C
Boiling Point: 60.5° to 61.5°C/140.9° to 142.7°F
Density: 4.12 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1888; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

SOLVENT — ChemAlert® Storage Code BLUE

Chloroform — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**AC61003-0040**	177.90	4/711.60

For HPLC; $CHCl_3$; $CHCl_3$; **F.W.** 119.38; [513-35-9, 513-35-9]
Melting Point: – 63.0°C; **Boiling Point:** 61.0°C; **Density:** 1.4800g/mL
UN 1888

Chloroform — For spectroscopy

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC40463-5000**	48.80	292.80

For UV/VIS spectroscopy; 99.8%; $CHCl_3$; $CHCl_3$
F.W. 119.38; [67-66-3, 64-17-5]; **Melting Point:** – 63.0°C
Boiling Point: 61.0°C; **Density:** 1.4800g/mL; **n:** 1.4443 to 1.4463; **UN** 1888

Chloroform — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**C603-4**	290.50	4/757.00

Trichloromethane, $CHCl_3$**F.W.** 119.38; [67-66-3, 513-35-9]
Melting Point: –63°C
Boiling Point: 61° to 61°C/141.8° to 142.7°F
Density: 4.12 (Air = 1.0); **DOT Class 6.1**: Poison
UN 1888

SOLVENT — ChemAlert® Storage Code BLUE

Chloroform — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC15821-0010**	61.70	205.00
2.5L	Glass Bottle	**AC15821-0025**	99.80	399.20

99+%; $CHCl_3$; $CHCl_3$; **F.W.** 119.38; [67-66-3, 64-17-5]
Melting Point: – 63.0°C; **Boiling Point:** 61.0°C; **Density:** 1.4800g/mL
n: 1.4443 to 1.4463; **UN** 1888

Chloroform — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC61028-1000**	33.35	6/166.10

99.9%; $CHCl_3$; $CHCl_3$; **F.W.** 119.38; [67-66-3, 513-35-9]
Melting Point: – 63.0°C; **Boiling Point:** 61.0°C; **Density:** 1.4800g/mL
UN 1888

Chloroform/isoamyl alcohol 24:1 — For molecular biology

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC32715-5000**	247.50	----

[, 67-66-3, 123-51-3]; **UN** 2810

Chloroform-d — For NMR

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
7.5mL	Ampule packed in tin can	**AC32068-0075**	47.00	----

For NMR; CCl_3D; $CDCl_3$; **F.W.** 120.39; [865-49-6]
Melting Point: – 64.0°C; **Boiling Point:** 60.0°C; **Density:** 1.5000g/mL
UN 1888

Chloroplatinic Acid Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Ampule	**P154-1**	360.50	6/1538.00

Dihydrogen Hexachloroplatinum (IV) Hexahydrate, $H_2PtCl_6{\cdot}6H_2O$
F.W. 517.91; [18497-13-7, 16941-12-1, 26023-84-7]
Melting Point: 60°C; **Density:** 2.43g/mL
DOT Class 8: Corrosive; **UN** 2507

ChemAlert® Storage Code WHITE

Chlorophenol Red, sodium salt — Pure

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC21631-0500**	264.20	----

3',3''-Dichlorophenolsulfonephthalein, sodium salt, $C_{19}H_{11}Cl_2NaO_5S$
F.W. 445.25; [123333-64-2]; **Melting Point:** 267.0°C

Chromic Chloride Hexahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C325-500**	306.00	6/1337.00

Chromium (III) Chloride Hexahydrate, $CrCl_3 \cdot 6H_2O$
F.W. 266.45; [10060-12-5]; **Melting Point:** 83°C; **Density:** 1.76g/mL

ChemAlert® Storage Code GRAY

Chromic Nitrate Nonahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C331-500**	223.06	6/976.94

Crystalline; Chromium (III) Nitrate Nonahydrate, $Cr(NO_3)_3 \cdot 9H_2O$
$Cr(NO_3)_3 \cdot 9H_2O$; **F.W.** 400.15; [7789-02-8]; **Melting Point:** 140°C
Boiling Point: 100°C decomposes; **Density:** 1.8g/mL
DOT Class 5.1: Oxidizer; **UN** 2720

ChemAlert® Storage Code YELLOW

Chromic Oxide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C334-500**	191.40	6/824.00

Powder; Chrome Green, Chromic Sesquioxide,
Chromium (III) Oxide, Cr_2O_3; **F.W.** 151.99; [1308-38-9]
C.I. 77288; **Melting Point:** 2435°C; **Boiling Point:** 4000°C
Density: 5.21g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1463

ChemAlert® Storage Code YELLOW

Chromic Oxide — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass Bottle	**C333-3**	788.97	4/2265.65

Powder; Chromic Sesquioxide, Chromium (III) Oxide, Cr_2O_3
F.W. 151.99; [1308-38-9]; **C.I.** 77288; **Melting Point:** 2435°C
Boiling Point: 4000°C; **Density:** 5.21g/mL; **DOT Class 5.1**: Oxidizer;
UN 1463

ChemAlert® Storage Code YELLOW

Chromium Trioxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A100-100**	119.30	6/494.50
500g	Glass Bottle	**A100-500**	389.50	6/1684.00
2.5kg	Glass Bottle	**A100-212**	892.00	4/2580.00

Crystalline; ≥98.0 %; Chromium (VI) Oxide, Chromic Acid
Anhydride, CrO_3; **F.W.** 99.99; [1333-82-0]; **Melting Point:** 196.1°C
Boiling Point: 250°C; **Density:** 3.4; **DOT Class 5.1**: Oxidizer
UN 1463

ChemAlert® Storage Code YELLOW

Chromium Trioxide — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A98-500**	310.24	6/1322.03

Flakes; Chromic Acid Anhydride, CrO_3; **F.W.** 99.99; [1333-82-0]
Melting Point: 196.1°C; **Boiling Point:** 250°C; **Density:** 3.4
DOT Class 5.1: Oxidizer; **UN** 1463

ChemAlert® Storage Code YELLOW

Citric Acid Anhydrous — USP

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**A95-3**	296.50	4/869.00
250 lb.	Fiber Drum	**A95-250LB**	2440.00	----

Crystalline; $C_6H_8O_7$; **F.W.** 192.13; [77-92-9]; **Melting Point:** 153°C
Boiling Point: 175°C; **Density:** 1.67g/mL

ChemAlert® Storage Code GRAY

Citric acid — For analysis

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC22034-0025**	184.80	----

Biological buffer; 99.5%; 2-Hydroxy-1,2,3-propanetricarboxylic acid,
$C_6H_8O_7$; $HO_2CCH_2C(OH)(CO_2H)CH_2CO_2H$; **F.W.** 192.13; [77-92-9]
Melting Point: 153.0°C; **Flash Point:** 100°C

Citric Acid Monohydrate — USP

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**A110-3**	515.50	4/1450.00
10kg	Poly Pail	**A110-10**	943.00	----

Granular; $C_6H_8O_7 \cdot H_2O$; **F.W.** 210.14; [5949-29-1]
Melting Point: 135° to 152°C/275° to 305.6°F
Flash Point: 174°C/345°F; **Boiling Point:** 175°C; **Density:** 1.54g/mL

ChemAlert® Storage Code GRAY

Citric Acid Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A104-500**	114.00	6/511.00
3kg	Poly Bottle	**A104-3**	425.00	4/1245.00
10kg	Poly Pail	**A104-10**	812.50	----
250 lb.	Fiber Drum	**A104-250LB**	3090.00	----

Granular; 99.0 to 102.0 %; $C_6H_8O_7 \cdot H_2O$
$(HO_2CCH_2)_2C(OH)(CO_2H) \cdot H_2O$; **F.W.** 210.14; [5949-29-1]
Melting Point: 135° to 152°C/275° to 305.6°F
Flash Point: 174°C/345°F; **Boiling Point:** 175°C; **Density:** 1.54g/mL

ChemAlert® Storage Code GRAY

Citric acid, trisodium salt dihydrate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
250g	Plastic Bottle	**AC44633-2500**	24.90	----
1kg	Plastic Bottle	**AC44633-0010**	46.70	----

Trisodium citrate dihydrate, Sodium citrate tribasic dihydrate,
$C_6H_5Na_3O_7 \cdot 2H_2O$; $NaO_2CCH_2C(OH)(CO_2Na)CH_2CO_2Na \cdot 2H_2O$
F.W. 294.09; [6132-04-3]; **Melting Point:** > 300.0°C

Cobaltous Acetate Tetrahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C364-500**	610.00	6/2670.00

Crystalline; Acetic Acid Cobalt Salt, Cobalt (II) Acetate,
$C_4H_6CoO_4 \cdot 4H_2O$; $Co(CH_3COO)_2 \cdot 4H_2O$; **F.W.** 249.08; [6147-53-1]
Melting Point: 140°C; **Density:** 380g/mL
DOT Class 9: Miscellaneous; **UN** 3077

ChemAlert® Storage Code GRAY

Fisher Scientific

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Prices subject to change.

Cobaltous Chloride — USP/EP, Colorimetric Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2210-4**	80.90	----
500mL	Amber Glass	**2210-16**	135.90	----

Clear, dark red liquid; [7791-13-1 (Cobalt(II) Chloride, Hexahydrate), 7647-01-0 (Hydrochloric Acid), 7732-18-5 (Water, Deionized)]

Cobaltous Chloride Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**C371-100**	165.30	6/716.00
500g	Glass Bottle	**C371-500**	542.50	6/2370.00

Crystalline; 98.0 to 102.0 %; Cobalt (II) Chloride, $CoCl_2 \cdot 6H_2O$
F.W. 237.93; [7791-13-1]; **Melting Point:** 87°C
Boiling Point: 1048.9°C; **Density:** 1.92g/mL
DOT Class 6.1: Poison; **UN** 3288

ChemAlert® Storage Code: BLUE

Cobaltous Nitrate Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C378-500**	1299.96	6/5586.55

Crystalline; 98.0 to 102.0 %; Cobalt (II) Nitrate, $CoH_{12}N_2O_{12}$
$Co(NO_3)_2 \cdot 6H_2O$; **F.W.** 291.03; [10026-22-9]
Melting Point: 55° to 56°C; **Density:** 1.88g/mL
DOT Class 5.1: Oxidizer; **UN** 1477

ChemAlert® Storage Code: YELLOW

Cobaltous Sulfate Heptahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C386-500**	463.50	6/1997.00

Crystalline; ≥97.0 %; Cobalt (II) Sulfate, $CoSO_4 \cdot 7H_2O$
F.W. 281.1; [10026-24-1]; **Melting Point:** 96.67°C
Boiling Point: 420.00°C; **Density:** 1.95g/mL

ChemAlert® Storage Code: GRAY

Copper — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C434-500**	233.50	6/926.50

Powder; Cu; **F.W.** 63.55; [7440-50-8]; **C.I.** 77400
Melting Point: 1083°C; **Boiling Point:** 2595°C
Density: 8.92g/mL; **DOT Class 4.1**: Flammable Solid; **UN** 3178

ChemAlert® Storage Code: RED

Copper — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C430-500**	228.10	6/990.54

Shot; ≥99.9 %; Cu; **F.W.** 63.55; [7440-50-8]; **C.I.** 77400
Melting Point: 1083°C; **Boiling Point:** 2595°C; **Density:** 8.92g/mL

ChemAlert® Storage Code: GRAY

Copper(II) chloride, anhydrous

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
250g	Plastic Bottle	**AC20653-2500**	50.00	----

C-X bond formation reagent; 99%; Cupric chloride, Cl_2Cu; $CuCl_2$
F.W. 134.45; [7447-39-4]; **Melting Point:** 498.0°C; **Boiling Point:** 993.0°C
UN 2802

Copper (II) Sulfate–Sulfamic Acid Inhibitor Solution — APHA

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SC171-4**	224.06	4/648.62

Copper (II) Sulfate–Sulfamic Acid Inhibitor Solution, [7758-99-8, 5329-14-6, 64-19-7, 7732-18-5]; For dissolved oxygen.

ChemAlert® Storage Code: GRAY

Crystal Violet — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**C581-25**	87.90	6/387.00
100g	Glass Bottle	**C581-100**	204.50	6/842.50

Gentian Violet, Basic Violet 3, $C_{25}H_{30}ClN_3$; **F.W.** 407.98 [548-62-9]; **C.I.** 42555; For use in histology, cytology and bacteriology (staining).

ChemAlert® Storage Code: BLUE

Cupric Chloride Dihydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C455-500**	360.50	6/1409.00

Crystalline; Copper (II) Chloride, $CuCl_2 \cdot 2H_2O$; **F.W.** 170.48 [10125-13-0]; **Boiling Point:** 992.78°C; **Density:** 2.54g/mL
DOT Class 8: Corrosive; **UN** 2802

ChemAlert® Storage Code: WHITE

Cupric Nitrate Hemipentahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C467-500**	280.50	6/1219.00

Crystalline; 98.0 to 102.0 %; Copper (II) Nitrate, $CuN_2O_6 \cdot 2.5H_2O$
$Cu(NO_3)_2 \cdot 2.5H_2O$; **F.W.** 232.59; [19004-19-4]
Melting Point: 255°C; **DOT Class 5.1**: Oxidizer; **UN** 1477

ChemAlert® Storage Code: YELLOW

Cupric Sulfate Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C495-500**	423.00	6/1845.00

≥97 %; Copper (II) Sulfate Anhydrous, CuO_4S; **F.W.** 159.61 [7758-98-7]; **Melting Point:** 200°C; **Density:** 3.6g/mL
DOT Class 9: Miscellaneous; **UN** 3077

ChemAlert® Storage Code: BLUE

Cupric Sulfate Pentahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C493-500**	185.30	6/778.50
3kg	Poly Bottle	**C493-3**	2560.00	----
10kg	Poly Pail	**C493-10**	1157.00	----

Fine Crystals; 98.0 to 102.0 %; Vitriol, Blue, Cupric Sulfate, Copper (II) Sulfate Pentahydrate, $CuO_4S \cdot 5H_2O$; **F.W.** 249.68 [7758-99-8]; **Melting Point:** 110°C; **Boiling Point:** 150°C
Density: 2.28g/mL; **DOT Class 9**: Miscellaneous; **UN** 3077

ChemAlert® Storage Code: BLUE

Cupric Sulfate Pentahydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**C489-500**	118.70	6/516.50
1kg	Poly Bottle	**C489-1**	215.00	4/719.00
10kg	Poly Pail	**C489-10**	625.06	----

Crystalline; Copper (II) Sulfate, $CuO_4S \cdot 5H_2O$; **F.W.** 249.68 [7758-99-8]; **Melting Point:** 110°C; **Boiling Point:** 150°C
Density: 2.28g/mL; **DOT Class 9**: Miscellaneous; **UN** 3077

ChemAlert® Storage Code: BLUE

Cyclohexane — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**C620-1**	173.90	6/683.00
1L	Amber Glass/ Safe-Cote	**C620SK-1**	190.58	6/703.76
4L	Amber Glass	**C620-4**	527.00	4/1403.00
4L	Amber Glass/ Safe-Cote	**C620SK-4**	668.50	4/1679.00

SOLVENT — ChemAlert® Storage Code RED

Mobile phase for HPLC applications.
99.0% min by GC; Hexahydrobenzene, C_6H_{12} $CH_2(CH_2)_4CH_2$; **F.W.** 84.16; [110-82-7]
Melting Point: 6.5°C; **Flash Point:** –18°C/–0.4°F
Boiling Point: 80.7°C; **Density:** 2.90 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1145; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a sub-micron filter to remove particulates.

Cyclohexane — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**C555-1**	247.50	6/1008.00
4L	Amber Glass	**C555-4**	642.50	4/1830.00

SOLVENT — ChemAlert® Storage Code RED

Also meets ACS specifications; ≥99.0 %
Hexahydrobenzene, C_6H_{12}; $CH_2(CH_2)_4CH_2$
F.W. 84.16; [110-82-7]; **Melting Point:** 6.5°C
Flash Point: –18°C/–0.4°F; **Boiling Point:** 80.7°C
Density: 2.90 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1145; For use in the ultraviolet and infrared ranges.

Cyclohexane — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**C553-4**	305.00	798.00

SOLVENT — ChemAlert® Storage Code RED

Hexahydrobenzene, C_6H_{12}; $CH_2(CH_2)_4CH_2$
F.W. 84.16; [110-82-7]; **Melting Point:** 6.5°C
Flash Point: –18°C/–0.4°F; **Boiling Point:** 80.7°C
Density: 2.90 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1145

Cyclohexane — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**C556-500**	126.20	6/525.50
1L	Glass Bottle	**C556-1**	193.48	6/807.51
4L	Glass Bottle	**C556-4**	303.76	4/827.06

SOLVENT — ChemAlert® Storage Code RED

≥99.0 %; Hexahydrobenzene, C_6H_{12}; $CH_2(CH_2)_4CH_2$
F.W. 84.16; [110-82-7]; **Melting Point:** 6.5°C
Flash Point: –18°C/–0.4°F; **Boiling Point:** 80.7°C
Density: 2.90 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1145

Cyclohexane — Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O2093-4**	347.50	4/924.00
20L	Steel Pail	**O2093-20**	1222.00	----

SOLVENT — ChemAlert® Storage Code RED

Hexahydrobenzene, C_6H_{12}; $CH_2(CH_2)_4CH$; **F.W.** 84.16 [110-82-7]; **Melting Point:** 6.5°C
Flash Point: –18°C/–0.4°F; **Boiling Point:** 80.7°C
Density: 2.90 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1145

Cyclohexane — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC21057-0100**	301.30	----

99.5%; C_6H_{12}; C_6H_{12}; **F.W.** 84.15; [110-82-7]; **Melting Point:** 6.5°C
Flash Point: –18°C; **Boiling Point:** 81.0°C
Density: 0.7700g/mL; **n:** 1.4250 to 1.4270

Cyclohexanone — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O2109-1**	171.64	6/739.70
4L	Glass Bottle	**O2109-4**	337.00	4/950.00
200L	Stainless-Steel Drum	**O2109-SS200**	6790.00	----

SOLVENT — ChemAlert® Storage Code RED

≥98 %; Ketohexamethylene, Pimelic Ketone, $C_6H_{10}O$
F.W. 98.14; [108-94-1]; **Melting Point:** –47°C
Flash Point: 42°; **Boiling Point:** 155°C
Density: 0.95g/mL; **DOT Class 3**: Flammable Liquid
UN 1915

Cyclohexanone — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**C550-4**	308.77	4/895.23

ChemAlert® Storage Code RED

Ketohexamethylene, Pimelic Ketone, $C_6H_{10}O$; $CH_2(CH_2)_4CO$
F.W. 98.14; [108-94-1]; **Melting Point:** –47°C
Flash Point: 42°; **Boiling Point:** 155°C; **Density:** 0.95g/mL
DOT Class 3: Flammable Liquid; **UN** 1915

1,2-Dichloroethane — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**E190-4**	268.17	4/730.32

SOLVENT — ChemAlert® Storage Code RED

Also meets ACS specifications; ≥99 %; Ethylene Dichloride, Ethylene Chloride, $C_2H_4Cl_2$; **F.W.** 98.96 [107-06-2]; **Melting Point:** –35°C
Flash Point: 13°C/55.4°F
Boiling Point: 81° to 85°C/177.8° to 185°F; **Density:** 3.4 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1184; Suitable for use in ultraviolet spectrophotometry.

1,2-Dichloroethane — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E175-500**	71.20	6/293.50
4L	Glass Bottle	**E175-4**	267.17	4/733.83
20L	Steel Pail	**E175-20**	727.31	----

SOLVENT — ChemAlert® Storage Code RED

≥99 %; Ethylene Dichloride, Ethylene Chloride, $C_2H_4Cl_2$
F.W. 98.96; [107-06-2]; **Melting Point:** –35°C
Flash Point: 13°C/55.4°F
Boiling Point: 81° to 85°C/177.8° to 185°F
Density: 3.4 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1184

Dichloromethane — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61005-0040**	130.60	4/522.40

For HPLC; Methylene chloride, C H2 Cl2; CHCl
F.W. 84.93; [75-09-2, 513-35-9]; **Melting Point:** 97.0C
Boiling Point: 39.0C to 40.0C; **Density:** 1.3250g/mL; **UN** 1593

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Dichloromethane — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC61030-0010**	52.40	314.40

99.9%; Methylene chloride, C H2 Cl2; CHCl; **F.W.** 84.93; [, 513-35-9]
Melting Point: 97.0C; **Boiling Point:** 39.0C to 40.0C
Density: 1.3250g/mL; **UN** 1593

Dichloromethane — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC61093-1000**	35.85	6/178.50

99.9%; Methylene chloride, C H2 Cl2; CHCl; **F.W.** 84.93; [75-09-2, 513-35-9]
Melting Point: 97.0C; **Boiling Point:** 39.0C to 40.0C; **Density:** 1.3250g/mL
UN 1593

Dichloromethane-d2 — For NMR

Quantity	Packaging	Cat.No.	Each	Case of
7.5mL	Ampule	**AC32072-0075**	155.30	----

For NMR; CCl_2D_2; CD_2Cl_2; **F.W.** 86.95; [1665-00-5]; **Melting Point:** – 97.0°C
Boiling Point: 40.0°C; **Density:** 1.3600g/mL; **n:** 1.4218; **UN** 1593

Diethyl ether — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	EcoSafPak	**AC61508-5000**	46.00	----
1L	Aluminum Container	**AC61508-0010**	68.10	----
4L	Aluminum Container	**AC61508-0040**	213.60	4/854.40
20L	Stainless Steel Container	**AC61508-0200**	646.30	----

Ether, Ethyl ether, $C_4H_{10}O$; $(CH_3CH_2)_2O$; **F.W.** 74.12; [60-29-7]
Melting Point: – 116.0°C; **Flash Point:** –45°C; **Boiling Point:** 34.6°C
Density: 0.7140g/mL; **n:** 1.3510 to 1.3530; **UN** 1155

N,N-Dimethylformamide — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D131-1**	199.30	6/820.55
4L	Glass Bottle	**D131-4**	542.35	4/1540.84

Clear, Colorless Liquid; Also meets ACS specifications ≥99.8 %; DMF, C_3H_7NO; **F.W.** 73.09; [68-12-2]
Melting Point: –61°C; **Flash Point:** 58°C/136.4°F
Boiling Point: 153°C; **Density:** 2.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 2265; For use in the ultraviolet and infrared ranges.

SOLVENT — ChemAlert® Storage Code RED

N,N-Dimethylacetamide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D135-500**	210.50	6/861.00

Acetyl Dimethylamine, Acetic Acid Dimethylamine, C_4H_9NO
$CH_3CON(CH_3)_2$; **F.W.** 87.12; [127-19-5]; **Melting Point:** –20°C
Flash Point: Flash point: 70°C / 158°F; **Boiling Point:** 165°C
Density: 3.02 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 2810

ChemAlert® Storage Code BLUE

N,N-Dimethylacetamide — Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O2434-4**	310.50	4/887.50

Acetyl Dimethylamine, Acetic Acid Dimethylamine, C_4H_9NO
$CH_3CON(CH_3)_2$; **F.W.** 87.12; [127-19-5]; **Melting Point:** –20°C
Flash Point: Flash point: 70°C / 158°F; **Boiling Point:** 165°C
Density: 3.02 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 2810

ChemAlert® Storage Code BLUE

N,N-Dimethylacetamide — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC61031-1000**	46.05	6/229.50

99.8%; C_4H_9NO; $CH_3CON(CH_3)_2$; **F.W.** 87.12; [127-19-5]
Melting Point: – 20.0°C; **Flash Point:** Flash point: 70°C / 158°F
Boiling Point: 164.0°C to 166.0°C; **Density:** 0.9370g/mL; **n:** 1.4370 to 1.4390
DOT Class 6.1UN 2810

N,N-Dimethylacetamide — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	AcroSeal® Glass Bottle	**AC39635-0025**	166.30	----

99.5%; C_4H_9NO; $CH_3CON(CH_3)_2$; **F.W.** 87.12; [127-19-5]
Melting Point: – 20.0°C; **Flash Point:** 70°C
Boiling Point: 164.0°C to 166.0°C; **Density:** 0.9370g/mL; **n:** 1.4370 to 1.4390

N,N-Dimethylformamide — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D119-500**	123.11	6/529.82
1L	Glass Bottle	**D119-1**	219.55	6/909.77
4L	Glass Bottle	**D119-4**	516.29	4/1627.06
4L	Aluminum Can	**D119S-4**	642.00	4/1852.00
20L	Poly Pail	**D119-20**	1365.00	----
200L	Unichrome/Steel Drum	**D119-200**	7440.00	----

Clear, Colorless Liquid; ≥99.8 %; DMF, C_3H_7NO
F.W. 73.09; [68-12-2]; **Melting Point:** –61°C
Flash Point: 58°C/136.4°F; **Boiling Point:** 153°C
Density: 2.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 2265; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

SOLVENT — ChemAlert® Storage Code RED

N,N-Dimethylformamide — Extra Dry over Molecular Sieve

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC34843-1000**	46.75	----
1L	AcroSeal® Glass Bottle	**AC34843-0010**	81.40	----
2.5L	AcroSeal® Glass Bottle	**AC34843-0025**	163.30	----

99.8%; DMF, C_3H_7NO; $HCON(CH_3)_2$; **F.W.** 73.09; [68-12-2]
Melting Point: – 61.0°C; **Flash Point:** 58°C; **Boiling Point:** 153.0°C
Density: 0.9450g/mL; **n:** 1.4290 to 1.4320; **UN** 2265

N,N-Dimethylformamide — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61032-1000**	46.15	6/230.00
1L	AcroSeal® Glass Bottle	**AC61032-0010**	81.50	406.00

99.8%; DMF, C3 H7 N O; HCON(CH); **F.W.** 73.09; **Melting Point:** 61.0C
Flash Point: 58C; **Boiling Point:** 153.0C; **Density:** 0.9450g/mL
n: 1.4290 to 1.4320; **UN** 2265

N,N-Dimethylformamide — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61094-1000**	46.40	6/278.40

99.8%; DMF, C3 H7 N O; HCON(CH); **F.W.** 73.09;
Melting Point: 61.0C; **Flash Point:** 58C; **Boiling Point:** 153.0C
Density: 0.9450g/mL; **n:** 1.4290 to 1.4320; **UN** 2265

N,N-Dimethylformamide — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC27960-0010**	108.10	----
2.5L	Glass Bottle	**AC27960-0025**	165.10	4/660.40
4L	Glass Bottle	**AC27960-0040**	292.50	4/1170.00

For HPLC; 99.5%; DMF, C_3H_7NO; $HCON(CH_3)_2$; **F.W.** 73.09; [68-12-2]
Melting Point: – 61.0°C; **Flash Point:** 58°C; **Boiling Point:** 153.0°C
Density: 0.9450g/mL; **n:** 1.4290 to 1.4320; **UN** 2265

Dimethyl Sulfoxide — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**D159-4**	507.00	4/1310.00

Mobile phase for HPLC applications.; 99.8% min by GC
Methyl Sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$; **F.W.** 78.13; [67-68-5]
Melting Point: 18.4°C; **Flash Point:** 87°C/188.6°F
Boiling Point: 189°C; **Density:** 2.7 (Air = 1.0); HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Note: Sold for non-medical use only. Not to be used or sold as a drug for humans or animals.

ChemAlert* Storage Code GRAY

Dimethyl Sulfoxide — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D136-1**	420.00	6/1798.00

Also meets ACS specifications; ≥99.9 %; Methyl Sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$; **F.W.** 78.13; [67-68-5]
Melting Point: 18.4°C; **Flash Point:** 87°C/188.6°F
Boiling Point: 189°C; **Density:** 2.7 (Air = 1.0); Note: Sold for nonmedical use only. Not to be used or sold as a drug for humans or animals.

ChemAlert* Storage Code GRAY

Dimethyl Sulfoxide — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D128-500**	183.06	6/764.41
1L	Glass Bottle	**D128-1**	294.23	6/1216.03
4L	Glass Bottle	**D128-4**	759.39	4/2375.93

Clear, Colorless Liquid; ≥99.9 %; Methyl Sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$; **F.W.** 78.13; [67-68-5]; **Melting Point:** 18.4°C
Flash Point: 87°C/188.6°F; **Boiling Point:** 189°C
Density: 2.7 (Air = 1.0); Note: Sold for nonmedical use only. Not to be used or sold as a drug for humans or animals.

ChemAlert* Storage Code GRAY

Methyl sulfoxide — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61042-1000**	55.90	6/278.50
1L	AcroSeal® Glass Bottle	**AC61042-0010**	104.90	522.00

99.7%; Dimethyl sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$
F.W. 78.13; [67-68-5]; **Melting Point:** 18.4°C; **Flash Point:** 87°C/188.6°F
Boiling Point: 189.0°C; **Density:** 2.7 (Air = 1.0); **n:** 1.4770 to 1.4800

Dimethylsulfoxide (DMSO) — LC/MS

Quantity	Packaging	Cat.No.	Each	Case of
50mL	Amber Glass Bottle	**PI85190**	43.26	----

>99.5%; Methylsulfinylmethane, Methyl sulfoxide, C_2H_6SO
F.W. 78.13; [67-68-5]; **Melting Point:** 18.5°C; **Flash Point:** 87°C (closed cup)
Boiling Point: 189°C; **Density:** 1.101g/mL

1,4-Dioxane — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D111-500**	146.06	6/595.49
4L	Glass Bottle	**D111-4**	489.72	4/1414.53

≥99 %; 1,4-Diethylene Dioxide, $C_4H_8O_2$
F.W. 88.11; [123-91-1]; **Melting Point:** 12°C
Flash Point: Flash Point: 12°C / 53.6°F
Boiling Point: 101°C; **Density:** 1.03g/mL
DOT Class 3: Flammable Liquid; **UN** 1165

SOLVENT — ChemAlert* Storage Code RED

1,4-Dioxane — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61512-1000**	46.90	6/233.50
1L	AcroSeal® Glass Bottle	**AC61512-0010**	83.20	6/414.50

99%; Diox, $C_4H_8O_2$; **F.W.** 88.11; [123-91-1]; **Melting Point:** 12.0°C
Flash Point: Flash Point: 12°C / 53.6°F; **Boiling Point:** 101.0°C
Density: 1.0340g/mL; **n:** 1.4205 to 1.4220

1,4-Dioxane — Extra Dry over Molecular Sieve

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC36434-1000**	46.85	----
1L	AcroSeal® Glass Bottle	**AC36434-0010**	83.20	----

99.5%; Diox, $C_4H_8O_2$; **F.W.** 88.11; [123-91-1]; **Melting Point:** 12.0°C
Flash Point: Flash Point: 12°C / 53.6°F; **Boiling Point:** 101.0°C
Density: 1.0340g/mL; **n:** 1.4205 to 1.4220; **UN** 1165

1,4-Dioxane — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC32689-1000**	46.90	----
1L	AcroSeal® Glass Bottle	**AC32689-0010**	83.20	----

99.8%; Diox, $C_4H_8O_2$; **F.W.** 88.11; [123-91-1]; **Melting Point:** 12.0°C
Flash Point: 12°C; **Boiling Point:** 101.0°C; **Density:** 1.0340g/mL
n: 1.4205 to 1.4220; **UN** 1165

*Trademark. See trademarks at www.fishersci.com Prices subject to change.

1,4-Dioxane — For biochemistry

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC44706-0010**	71.40	----
2.5L	AcroSeal® Glass Bottle	**AC44706-0025**	178.90	----

99%; Diox, $C_4H_8O_2$; **F.W.** 88.11; [123-91-1]; **Melting Point:** 12.0°C
Flash Point: 12°C; **Boiling Point:** 101.0°C; **Density:** 1.0340g/mL
n: 1.4205 to 1.4220

Dodecyl sulfate sodium salt — For biochemistry

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC23042-1000**	49.55	----
500g	Plastic Bottle	**AC23042-5000**	170.80	----

99%; Dodecyl Sodium Sulfate, SDS, Sodium lauryl sulfate, $C_{12}H_{25}NaO_4S$
$CH_3(CH_2)_{11}OSO_3Na$; **F.W.** 288.38; [151-21-3, 7757-82-6, 7647-14-5]
Melting Point: 206.0°C; **Flash Point:** >100°C; **UN** 2926

DPD Indicator Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**2655-16**	68.20	----
1L	Amber Glass	**2655-32**	108.40	----
4L	Amber Glass	**2655-1**	320.00	----

[7732-18-5, 7664-93-9, 6283-63-2, 6381-92-6]
Recommended Storage: Refrigerate (2°C - 8°C)

Drierite™

Quantity	Packaging	Cat.No.	Each	Case of
2kg	Glass Bottle	**AC21905-0020**	99.80	----

Adsorbent, Indicator; CaO_4S; **F.W.** 136.14; [7778-18-9]
Melting Point: 1450.0°C

Drierite™

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC35001-0100**	593.60	----

Adsorbent, Indicator; CaO_4S; **F.W.** 136.13; [7778-18-9, 7646-79-9]
Melting Point: 1450.0°C; **UN** 3077

Embedding Media, TissuePrep*

Quantity	Packaging	Cat.No.	Each	Case of
5 lb. (2.3kg)	Carton	**T580**	222.50	----

[64742-43-4, 8002-74-2]
Melting Point: 58 deg. C

ChemAlert* Storage Code GRAY

Eosin Y — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**E511-25**	100.30	6/446.00
100g	Glass Bottle	**E511-100**	225.50	6/992.50

D&C Red No. 22, Acid Red 87, $C_{20}H_8Br_4O_5{\cdot}2Na$
F.W. 691.85; [17372-87-1]; **C.I.** 45380; For use in histology and compounding of blood stains.
Acid Red 87.

ChemAlert* Storage Code GRAY

Eosin Y, Alcoholic

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SE22-500D**	134.92	6/661.78

Acid Red 87, [64-17-5, 67-63-0, 67-56-1, 17372-87-1, 7732-18-5]
Flash Point: 16°; **Density:** 0.8g/mL; **DOT Class 3**: Flammable Liquid
UN 1987; For use in histology stains.
Contains Eosin Y in a mixture of Ethanol, Methanol and Isopropanol.

ChemAlert* Storage Code RED

Eriochrome* Black T — Certified

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**E512-25**	79.90	6/367.50

Superchrome Black TS,
1-(1-Hydroxy-2-naphthylazo)-6-nitro-2-naphthol-4-sulfonic Acid Sodium Salt, Mordant Black 11, $C_{20}H_{12}N_3O_7SNa$; **F.W.** 461.38
[1787-61-7]; **C.I.** 14645; Indicator for EDTA titrations; biologic stain.

ChemAlert* Storage Code GRAY

Eriochrome* Black T Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SE32-500**	117.90	6/522.50

Mordant Black 11, [67-56-1, 1787-61-7, 1336-21-6, 7732-18-5]
C.I. 14645; **Melting Point:** –98°C; **Flash Point:** 11°
Boiling Point: 64°C; **DOT Class 3**: Flammable Liquid
UN 1230; Indicator for water hardness.
Schwarzenbach.

ChemAlert* Storage Code RED

Ethanol, 140 Proof (70%)

Quantity	Packaging	Cat.No.	Each	Case of
55 gal.	Metal Drum	**04-355-175**	778.55	----

[64-17-5]

Ethanol , 140 Proof (70%)

Quantity	Packaging	Cat.No.	Each	Case of
4 x 1 gal.	Plastic Bottle	**07-678-001**	469.00	----

[64-17-5 (ethanol), 7732-18-5 (purified water)]; Federal Tax is included in the price.

Ethanol , 190 proof (95%)

Quantity	Packaging	Cat.No.	Each	Case of
1 pt.	Plastic Bottle	**04-355-453**	24.90	24/505.50
4 x 1 gal.	Glass Bottle	**04-355-723**	478.50	----
4 x 1 gal.	Plastic Bottle	**04-355-454**	562.00	----
5 gal.	Plastic Bottle	**04-355-455**	618.00	----
55 gal.	Drum	**04-355-457**	1133.00	----

Used for research, healthcare, industrial, or production applications as a cleaner, solvent or reagent.; [64-17-5, 7732-18-5 (purified water)]; Federal Tax is included in the price, except for products 04-355-457 and 04-355-461, for which the tax is charged as a separate item. No federal permit required for purchase.

Ethanol , 190 Proof (95%) — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
5 gal.	Cubitainer with Spigot Closure	**22-032-600**	182.30	----

Used for research, healthcare, industrial, or production aplications as a cleaner, solvent or reagent.; Ethyl Alcohol, [64-17-5, 7732-18-5 (purified water)]; **May require a federal tax exempt certificate.**

Ethanol — Spectrophotometric Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	EcoSafPak	**AC61511-0010**	98.40	----
4L	EcoSafPak	**AC61511-0040**	275.00	4/1100.00

for UV/VIS spectroscopy; 95%; C_2H_6O; C_2H_5OH; **F.W.** 46.06 [64-17-5, 7732-18-5]; **Melting Point:** –114°C; **Flash Point:** 17°C/62°F **Boiling Point:** 78°C (760mm Hg); **Density:** 1.59 (Air = 1.0)

Ethanol , 200 proof (100%)

Quantity	Packaging	Cat.No.	Each	Case of
1 pt.	Glass Bottle	**07-678-007**	86.35	----
1 pt.	Plastic Bottle	**04-355-450**	24.45	24/497.50
24 x 1 pt.	Glass Bottle	**07-678-006**	808.50	----
1 gal.	Plastic Bottle	**04-355-451**	131.66	4/466.07
4 x 1 gal.	Glass Bottle	**04-355-721**	485.00	----
5 gal.	Plastic Bottle	**04-355-452**	606.00	----
55 gal.	Drum	**04-355-456**	1163.00	----

Used for research, healthcare, industrial, or production applications as a cleaner, solvent or reagent.; Ethyl Alcohol, [64-17-5]; Federal Tax is included in the price, except for products 04-355-456 and 04-355-460, for which the tax is charged as a separate item. No federal permit required for purchase.

Ethanol , 200 proof (100%) — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
24 x 1 pt.	Plastic Bottle	**04-355-222**	136.40	----
4 x 1 gal.	Plastic Bottle	**04-355-223**	134.91	----
5 gal.	Cubitainer with Spigot	**22-032-601**	185.80	----
5 gal.	Poly Bottle	**04-355-224**	170.20	----
55 gal.	Poly Drum	**04-355-600**	1170.00	----

Used for research, healthcare, industrial, or production applications as a cleaner, solvent or reagent.; Ethyl Alcohol, [64-17-5]; **May require a federal tax exempt certificate.**

Ethanol — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
2L	Glass Bottle	**AC61509-0020**	152.10	----
4L	Glass Bottle	**AC61509-0040**	258.50	4/857.50

99.5%; C_2H_6O; CH_3CH_2OH; **F.W.** 46.07; [64-17-5, 7732-18-5] **Melting Point:** – 114.0°C; **Flash Point:** 12°C; **Boiling Point:** 78.0°C **Density:** 0.7900g/mL; **UN** 1170

Ethanol 99.5%, anhydrous, 200 Proof

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC61510-1000**	46.45	6/231.50

99.5%; C_2H_6O; CH_3CH_2OH; **F.W.** 46.07; [64-17-5, 7732-18-5] **Melting Point:** – 114.0°C; **Flash Point:** 12°C; **Boiling Point:** 78.0°C **Density:** 0.7900g/mL

Ethanol, Anhydrous — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
1 gal.	Poly Bottle	**A405F-1GAL**	151.10	4/450.50
4L	Poly Bottle	**A405P-4**	140.50	4/449.00
20L	Lined Steel Drum	**A405-20**	367.00	----

Clear, Colorless Liquid; Ethyl Alcohol Denatured, Ethanol, Denatured, [64-17-5, 108-10-1, 141-78-6, 67-56-1, 108-88-3] ChemAlert* Storage Code RED **Flash Point:** 12°; **Boiling Point:** 77.11°C; **Density:** 0.79g/mL **DOT Class 3**: Flammable Liquid; **UN** 1170; Used in histology, pathology, and cell biology applications.

Ethanol, CDA 19 — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
1 gal.	Poly Bottle	**A406F-1GAL**	183.60	4/627.00
4L	Poly Bottle	**A406P-4**	157.90	4/471.00
20L	Lined Steel Drum	**A406-20**	436.00	----

Clear, Colorless Liquid; Ethyl Alcohol Denatured, [64-17-5, 108-10-1, 108-88-3 , 110-54-3, 7732-18-5] ChemAlert* Storage Code RED **Melting Point:** < –85°C; **Flash Point:** 16.6°C/61.8°F **Boiling Point:** 79°C; **Density:** 1.6 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1170; Nonvolatile matter, ≤0.003%.

Ethanol — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61105-0040**	148.60	4/594.40

For HPLC; C_2H_6O; C_2H_5OH; **F.W.** 46.06; [64-17-5, 67-56-1, 67-63-0] **Melting Point:** – 114.0°C; **Flash Point:** 12.8°C/55°F **Boiling Point:** 78.0°C; **Density:** 1.24; **n:** 1.3600; **UN** 1170

Ethyl Acetate — Optima

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E196-4**	211.03	4/829.07

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC SOLVENT ChemAlert* Storage Code RED Acetic Acid Ethyl Ester, $C_4H_8O_2$; $CH_3COOC_2H_5$ **F.W.** 88.11; [141-78-6]; **Melting Point:** –83°C **Flash Point:** –4°C/+24.8°F; **Boiling Point:** 75° to 78°C/167° to 171.5°F **Density:** 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1173 High purity and versatile solvent for pesticide residue analysis. High UV transmittance and low evaporation residue. Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.

Ethyl Acetate — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**E195-1**	98.30	6/384.00
1L	Glass Bottle/ Safe-Cote	**E195SK-1**	150.90	6/431.50
4L	Glass Bottle	**E195-4**	188.07	4/636.59
4L	Glass Bottle/ Safe-Cote	**E195SK-4**	230.00	4/789.00

Mobile phase for HPLC applications.; 99.9% min by GC SOLVENT ChemAlert* Storage Code RED EtOAc, Acetic Acid Ethyl Ester, $C_4H_8O_2$; $CH_3COOC_2H_5$ **F.W.** 88.11; [141-78-6]; **Melting Point:** –83°C **Flash Point:** –4°C/+24.8°F; **Boiling Point:** 75° to 78°C/167° to 171.5°F **Density:** 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1173; HPLC mobile phase for analytical and preparative separations. High UV transmittance and low evaporation residue. Filtered through a sub-micron filter to remove particulates.

*Trademark. See trademarks at www.fishersci.com Prices subject to change.

Ethyl Acetate — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E124-4**	364.03	4/1047.92
20L	Steel Pail	**E124-20**	842.00	----

99.0 to 100.5 %; Acetic Acid Ethyl Ester, $C_4H_8O_2$
$CH_3COOC_2H_5$; **F.W.** 88.11; [141-78-6]
Melting Point: –83°C; **Flash Point:** –4°C/+24.8°F
Boiling Point: 75° to 78°C/167° to 171.5°F; **Density:** 3.04 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1173

SOLVENT — ChemAlert® Storage Code RED

Ethyl Acetate — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E191-4**	285.50	4/658.50

Acetic Acid Ethyl Ester, $C_4H_8O_2$; $CH_3COOC_2H_5$
F.W. 88.11; [141-78-6]; **Melting Point:** –83°C
Flash Point: –4°C/+24.8°F
Boiling Point: 75° to 78°C/167° to 171.5°F
Density: 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1173

SOLVENT — ChemAlert® Storage Code RED

Ethyl Acetate — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E189-4**	385.00	4/1071.00

Also meets ACS specifications; ≥99.5 %
Acetic Acid Ethyl Ester, $C_4H_8O_2$; $CH_3COOC_2H_5$
F.W. 88.11; [141-78-6]; **Melting Point:** –83°C
Flash Point: –4°C/+24.8°F; **Boiling Point:** 75° to 78°C/167° to 171.5°F
Density: 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1173; For use in the ultraviolet and infrared ranges.

SOLVENT — ChemAlert® Storage Code RED

Ethyl Acetate — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E145-500**	70.38	6/299.75
1L	Glass Bottle	**E145-1**	157.89	6/365.41
4L	Glass Bottle	**E145-4**	302.76	4/1062.65
4L	Glass/Safe-Cote	**E145SK-4**	370.06	4/665.16
20L	Steel Pail	**E145-20**	880.50	----
200L	Steel Drum	**E145-200**	4820.00	----

≥99.5 %; Acetic Acid Ethyl Ester, $C_4H_8O_2$
F.W. 88.11; [141-78-6]; **Melting Point:** –83°C
Flash Point: –4°C/+24.8°F
Boiling Point: 75° to 78°C/167° to 171.5°F
Density: 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1173; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

SOLVENT — ChemAlert® Storage Code RED

Ethyl acetate — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61006-0040**	153.70	4/614.80

For HPLC; 99.9%; Acetic acid ethyl ester, $C_4H_8O_2$; $CH_3CO_2C_2H_5$
F.W. 88.11; [141-78-6]; **Melting Point:** – 83.5°C; **Flash Point:** –4°C
Boiling Point: 75.0°C to 78.0°C; **Density:** 0.9020g/mL; **n:** 1.3710 to 1.3740
UN 1173

Ethyl Alcohol Denatured

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A407-500**	48.95	6/211.00
1L	Glass Bottle	**A407-1**	66.80	6/288.00
4L	Glass Bottle	**A407-4**	159.60	4/500.50
4L	Poly Bottle	**A407P-4**	161.20	4/505.50
4L	Aluminum Can	**A407S-4**	214.50	4/608.50
4L	Glass/Safe-Cote	**A407SK-4**	180.30	4/511.50
20L	Lined Steel Drum	**A407-20**	352.38	----
200L	Lined Steel Drum	**A407-200**	1932.00	----

Ethanol, Denatured, [64-17-5]; **Flash Point:** 13.9°C/57°F
DOT Class 3: Flammable Liquid; **UN** 1170
Formulation: Ethyl Alcohol (100 parts)
Ethyl Acetate (1 part); Methyl iso-Butyl Ketone (1 part)
Aviation Gasoline (1 part)

SOLVENT — ChemAlert® Storage Code RED

Ethyl Ether — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Tin Can	**E197-1**	189.20	6/527.00
4L	Tin Can	**E197-4**	616.00	4/1756.00

≥99 %; Ethyl Oxide, Diethyl Ether, $C_4H_{10}O$; $C_2H_5OC_2H_5$
F.W. 74.12; [60-29-7, 64-17-5]; **Melting Point:** –116°C
Flash Point: –45°C/–49°F; **Boiling Point:** 34.6°C
Density: 2.55 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1155; Suitable for use in the ultraviolet range.

SOLVENT — ChemAlert® Storage Code RED

Ethyl Ether — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**E199-4**	241.50	4/762.50

≥99.5 %; Ethyl Oxide, Diethyl Ether, $C_4H_{10}O$; $C_2H_5OC_2H_5$
F.W. 74.12; [60-29-7, 64-17-5]; **Melting Point:** –116°C
Flash Point: –45°C/–49°F; **Boiling Point:** 34.6°C
Density: 2.55 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1155; For pesticide residue analysis by GC-ECD.
Suitable for sample prep prior to GC-ECD for environmental applications.

SOLVENT — ChemAlert® Storage Code RED

Ethyl Ether — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Aluminum Can	**E492-4**	344.50	4/996.00
20L	Steel Pail	**E492-20**	632.00	----

Suitable for fat extraction; Ethyl Oxide, Diethyl Ether,
$C_4H_{10}O$; $C_2H_5OC_2H_5$; **F.W.** 74.12; [60-29-7]
Melting Point: –116.3°C; **Flash Point:** –45°C/–49°F
Boiling Point: 34.6°C; **Density:** 2.55 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1155; Suitable for fat extraction.

SOLVENT — ChemAlert® Storage Code RED

Ethyl Ether — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Aluminum Can	**E134-1**	118.50	6/509.00
4L	Aluminum Can	**E134-4**	381.00	4/1060.00
20L	Steel Pail	**E134-20**	682.00	----

Ethyl Oxide, $C_4H_{10}O$; $C_2H_5OC_2H_5$; **F.W.** 74.12; [60-29-7]
Melting Point: –116.3°C; **Flash Point:** –45°C/–49°F
Boiling Point: 34.6°C; **Density:** 2.55 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1155

SOLVENT — ChemAlert® Storage Code RED

Ethyl Ether Anhydrous — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Tin Can	**E198-4**	343.50	4/910.50

SOLVENT — ChemAlert® Storage Code RED

Stabilized; Mobile phase for HPLC applications.
99.0% min by GC; Diethyl Ether, Ethyl Oxide, $C_4H_{10}O$ $C_2H_5OC_2H_5$; **F.W.** 74.12; [60-29-7, 64-17-5]
Melting Point: –116°C; **Flash Point:** –45°C/–49°F
Boiling Point: 34.6°C; **Density:** 2.55 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1155; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Stabilized with ca. 2% ethanol.

Ethyl Ether Anhydrous — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Aluminum Can	**E138-500**	102.70	6/434.36
1L	Aluminum Can	**E138-1**	167.80	6/1006.80
4L	Aluminum Can	**E138-4**	421.05	4/1466.66
20L	Steel Pail	**E138-20**	785.46	----

SOLVENT — ChemAlert® Storage Code RED

BHT stabilized; ≥99 %
Ethyl Oxide, Diethyl Ether, $C_4H_{10}O$; $C_2H_5OC_2H_5$
F.W. 74.12; [60-29-7]; **Melting Point:** –116.3°C
Flash Point: –45°C/–49°F; **Boiling Point:** 34.6°C
Density: 2.55 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1155
Stabilized with BHT as preservative. Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

Ethylene Glycol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E178-500**	115.90	6/486.50
1L	Glass Bottle	**E178-1**	198.20	6/864.00
4L	Glass Bottle	**E178-4**	389.00	4/1057.00
200L	Lined Steel Drum	**E178-200**	4310.00	----

ChemAlert® Storage Code GRAY

1,2-Ethanediol, $C_2H_6O_2$; $HOCH_2CH_2OH$; **F.W.** 62.07; [107-21-1]
Melting Point: –13°C; **Flash Point:** 116°C/240.8°F
Boiling Point: 197°C; **Density:** 2.14 (Air = 1.0); Purity is guaranteed to meet published maximum limits of impurities.

Ethylene Glycol — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E177-4**	290.50	4/844.00
20L	Lined Steel Drum	**E177-20**	958.00	----

ChemAlert® Storage Code GRAY

1,2-Ethanediol, $C_2H_6O_2$; $HOCH_2CH_2OH$; **F.W.** 62.07; [107-21-1]
Melting Point: –13°C; **Flash Point:** 116°C/240.8°F
Boiling Point: 197°C; **Density:** 2.14 (Air = 1.0)

Ethylene glycol — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC14675-0010**	66.50	4/266.00
2.5L	Glass Bottle	**AC14675-0025**	124.90	4/499.60
25L	Plastic Jerry Can	**AC14675-0250**	648.30	----

99%; 1,2-Ethanediol, Monoethylene glycol, C2 H6 O2; HOCHCHOH
F.W. 62.06; []; **Melting Point:** 13.0C; **Flash Point:** 116C
Boiling Point: 196.0C to 198.0C; **Density:** 1.1130g/mL
n: 1.4300 to 1.4330

Ethylene glycol dimethyl ether — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61035-1000**	64.70	322.50

99%; 1,2-Dimethoxyethane, Monoglyme, C4 H10 O2; CHOCHCHOCH
F.W. 90.12; [, 128-37-0]; **Melting Point:** 69.0C; **Flash Point:** 6C
Boiling Point: 84.0C to 86.0C; **Density:** 0.8670g/mL; **n:** 1.3785 to 1.3805
UN 2252

Ferric Ammonium Sulfate Dodecahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**I75-500**	228.50	6/988.50
3kg	Glass Bottle	**I75-3**	829.92	4/2398.02

ChemAlert® Storage Code GRAY

Crystalline; 98.5 to 102.0 %; Iron Alum, Iron (III) Ammonium Sulfate Dodecahydrate, Ferric Alum, $FeNH_4S_2O_8 \cdot 12H_2O$
$FeNH_4(SO_4)_2 \cdot 12H_2O$; **F.W.** 482.2; [7783-83-7]; **Melting Point:** 37.22°C
Boiling Point: 230.00°C; **Density:** 1.71g/mL

Ferric Chloride — USP/EP

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**3110-4**	71.50	----
500mL	Amber Glass	**3110-16**	134.50	----
1L	Amber Glass	**3110-32**	186.50	----

Clear light to dark amber colored liquid; [10025-77-1 (Ferric Chloride Hexahydrate), 7647-01-0 (Hydrochloric Acid), 7732-18-5 (Water, Deionized)]

Ferric Chloride Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**I88-100**	87.40	6/397.00
500g	Poly Bottle	**I88-500**	201.00	6/827.00

ChemAlert® Storage Code WHITE

Lumps; 97 to 102 %; Iron (III) Chloride, $FeCl_3 \cdot 6H_2O$
F.W. 270.3; [10025-77-1]; **Melting Point:** 37°C
Boiling Point: 280° to 285°C/536° to 545°F; **Density:** 1.82g/mL
DOT Class 8: Corrosive; **UN** 1773

Ferric Chloride Hexahydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**I86-3**	379.00	4/1083.00
10kg	Poly Pail	**I86-10**	854.13	----

ChemAlert® Storage Code WHITE

Lumps; Iron (III) Chloride, $FeCl_3 \cdot 6H_2O$; **F.W.** 270.3; [10025-77-1]
Melting Point: 37°C; **Boiling Point:** 280° to 285°C/536° to 545°F
Density: 1.82g/mL; **DOT Class 8**: Corrosive; **UN** 1773

Ferric Chloride Solution, 0.025% (w/v) — APHA

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SF97-1**	98.00	6/435.57

ChemAlert® Storage Code GRAY

Iron (III) Chloride Solution, 0.025% w/v, [7705-08-0, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL; **DOT Class 8**: Corrosive
UN 2582; Suitable for biochemical oxygen demand.

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Ferric Nitrate Nonahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**I110-100**	75.30	6/326.00
500g	Glass Bottle	**I110-500**	231.50	6/958.50
3kg	Glass Bottle	**I110-3**	889.36	4/2587.80

Crystalline; 98.0 to 101.0 %; Iron (III) Nitrate, $FeN_3O_9 \cdot 9H_2O$
$Fe(NO_3)_3 \cdot 9H_2O$; **F.W.** 404.00; [7782-61-8]; **Melting Point:** 47°C
Density: 1.68g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1466

ChemAlert® Storage Code: YELLOW

Ferrous Ammonium Sulfate Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**I77-500**	278.50	6/1204.00
2.5kg	Poly Bottle	**I77-212**	967.49	4/2776.71

Crystalline; 98.5 to 101.5 %; Mohr Salt, Iron (II) Ammonium Sulfate Hexahydrate, $Fe(NH_4)_2(SO_4)_2x_6H_2O$; $Fe(NH_4)_2(SO_4)_2 \cdot 6H_2O$
F.W. 392.14; [7783-85-9]; **Melting Point:** 100°C (dec)
Density: 1.87g/mL

ChemAlert® Storage Code: GRAY

Ferrous Ammonium Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**3144-32**	55.60	----
4L	Amber Glass	**3144-1**	228.50	----

Clear, light green liquid

Ferrous Chloride Tetrahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**I90-500**	331.00	6/1447.00

Crystalline; 99 to 102 %; Iron (II) Chloride Tetrahydrate, Ferrous Protochloride, $Cl_2Fe \cdot 4H_2O$; **F.W.** 198.81; [13478-10-9]
Melting Point: 105° to 110°C/221° to 230°F; **Density:** 1.93g/mL
DOT Class 8: Corrosive; **UN** NA 1759

ChemAlert® Storage Code: WHITE

Ferrous Sulfate Heptahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**I146-500**	146.20	6/643.50
3kg	Poly Bottle	**I146-3**	540.50	4/1572.58
10kg	Poly Pail	**I146-10**	1298.03	----

Crystalline; ≥99.0 %; Iron (II) Sulfate, $FeSO_4 \cdot 7H_2O$
F.W. 278.01; [7782-63-0]; **Melting Point:** 64°C; **Boiling Point:** 300°C
Density: 1.9g/mL

ChemAlert® Storage Code: GRAY

Fluorescamine — Pure

Quantity	Packaging	Cat.No.	Each	Case of
500mg	Glass Bottle	**AC19167-5000**	248.10	----
2.5g	Glass Bottle	**AC19167-0025**	852.10	----

$C_{17}H_{10}O_4$; **F.W.** 278.26; [38183-12-9]
Melting Point: 155.0°C to 157.0°C

Fluorescein — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC11924-0025**	425.90	----

$C_{20}H_{12}O_5$; **F.W.** 332.30; [2321-07-5]
Melting Point: 314.0°C to 316.0°C

Fluorescein, disodium salt — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bucket	**AC17324-0025**	337.90	----

Indicator; Acid Yellow 73, Fluorescein, water soluble, Uranine, C.I. 45350, $C_{20}H_{10}Na_2O_5$; **F.W.** 376.27; [518-47-8]; **Melting Point:** 320.0°C

Fluoroboric Acid — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**A188-500**	231.50	12/1630.00

48 to 50 %; Tetrafluoroboric Acid, Hydrogen Tetrafluoroborate, HBF_4; **F.W.** 87.81; [16872-11-0, 7732-18-5, 10043-35-3]
Melting Point: –90°C; **Boiling Point:** 130°C (dec)
Density: 1.37g/mL; **DOT Class 8**: Corrosive; **UN** 1775

ChemAlert® Storage Code: WHITE

Formalde-Fresh Solution, Buffered

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SF93-4**	100.00	4/291.50
20L	PolyPac	**SF93-20**	344.00	----

[50-00-0, 67-56-1, 7732-18-5, 7558-79-4]; **Density:** >1.00
DOT Class 9: Miscellaneous; **UN** 3334; Specially filtered for use in tissue processors.
Low-odor 10% Formalin contains 4% (w/v) Formaldehyde and 0.075M Sodium Phosphate Buffer. Stabilized with 1.5% (w/v) Methanol. For use in the same tissue fixation techniques as 10% Formalin.

ChemAlert® Storage Code: BLUE

Formalde-Fresh Solution

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SF94-4**	114.80	4/351.00
20L	PolyPac	**SF94-20**	452.00	----

3.5 to 4.5 %; [50-00-0, 67-56-1, 7732-18-5]; **Melting Point:** 0°C
Flash Point: 85°C/185°F; **Boiling Point:** 93.9° to 100°C/201° to 212°F
Density: 1.0; DOT Class 9: Miscellaneous; Specially filtered for use in tissue processors.
Low-odor 10% Formalin.

ChemAlert® Storage Code: BLUE

Formaldehyde, 40% by Volume — USP

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**F77P-4**	197.20	4/546.11
20L	Poly Pail	**F77-20**	428.07	----
20L	PolyPac	**F77P-20**	499.00	----
200L	Steel Drum	**F77-200**	1829.00	----

36.5 to 38.0 %; Methanal, Methylene Oxide, Oxymethane, Formic Aldehyde, Methylaldehyde, CH_2O; HCHO
F.W. 30.03; [50-00-0, 67-56-1, 7732-18-5]; **Melting Point:** 0°C
Flash Point: 50°C/122°F; **Boiling Point:** 101°C; **Density:** >1.0
DOT Class 3: Flammable Liquid; **UN** 1198; Suitable for histologic use.
Stabilized with 10-15% (v/v) Methanol.

ChemAlert® Storage Code: RED

Formaldehyde, 37% by Weight — Histological

Quantity	Packaging	Cat.No.	Each	Case of
1 gal.	Poly Bottle	**F75P-1GAL**	208.50	4/607.50

36.5 to 38.0 %; Methanal, Methylene Oxide, Oxymethane, Formic Aldehyde, Methylaldehyde, CH_2O; HCHO; **F.W.** 30.03; [50-00-0, 67-56-1, 7732-18-5]; **Melting Point:** 0°C; **Flash Point:** 50°C/122°F
Boiling Point: 101°C; **Density:** >1.0; **DOT Class 3**: Flammable Liquid
UN 1198; Stabilized with 10 to 15% (v/v) Methanol.

ChemAlert® Storage Code: RED

Formaldehyde, 37% by Weight — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**F79-500**	79.10	6/356.50
1L	Glass Bottle	**F79-1**	141.30	6/632.50
4L	Glass Bottle	**F79-4**	250.50	4/741.00
4L	Poly Bottle	**F79P-4**	224.50	4/665.50
20L	Poly Pail	**F79-20**	539.00	----
20L	PolyPac	**F79P-20**	641.50	----
200L	Poly Drum	**F79-200**	2890.00	----

36.5 to 38.0 %; Methanal, Methylene Oxide, Oxymethane, Formic Aldehyde, Methylaldehyde, CH_2O; HCHO
F.W. 30.03; [50-00-0, 67-56-1, 7732-18-5]; **Melting Point:** 0°C
Flash Point: 50°C/122°F; **Boiling Point:** 101°C; **Density:** >1.0
DOT Class 3: Flammable Liquid; **UN** 1198; Stabilized with 10-15% Methanol.

ChemAlert® Storage Code RED

Formaldehyde, Para — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O4042-500**	114.90	6/476.23

≥95 %; Polyoxymethylene, Paraform, Formagene, Polymer of CH_2O; [30525-89-4, 50-00-0]
Melting Point: 120° to 170°C; **Density:** 1.46g/mL
DOT Class 4.1: Flammable Solid; **UN** 2213

ChemAlert® Storage Code RED

Formaldehyde, Para — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**T353-500**	111.90	6/501.00

Polyoxymethylene, Paraform, Formagene, Polymer of CH_2O [30525-89-4, 50-00-0]; **Melting Point:** 120° to 170°C
Density: 1.46g/mL; **DOT Class 4.1**: Flammable Solid; **UN** 2213

ChemAlert® Storage Code RED

Formalin Solution — Histological

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SF98-4**	127.90	4/372.50
20L	PolyPac	**SF98-20**	409.00	----

[50-00-0, 67-56-1, 7732-18-5]; **Melting Point:** 0°C; **Density:** >1.00
DOT Class 9: Miscellaneous; **UN** 3334; Specially filtered for use in tissue processors.
4% Formaldehyde Solution.

ChemAlert® Storage Code BLUE

Formalin, Buffered, 10% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SF99-4**	106.90	4/323.50
20L	PolyPac	**SF99-20**	311.79	----

[50-00-0, 67-56-1, 127-09-3, 7732-18-5]; **Flash Point:** 85°C/185°F
Boiling Point: 93.9° to 100°C/201° to 212°F; **Density:** 1.0
DOT Class 9: Miscellaneous; **UN** 3334; Specially filtered for use in tissue processors.
Buffered with Sodium Acetate in accordance with A.F.I.P. Manual of Histology.

ChemAlert® Storage Code BLUE

Formalin, Buffered, 10% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SF100-4**	87.70	4/279.00
20L	PolyPac	**SF100-20**	257.00	----
200L	Poly Drum	**SF100-200**	1967.00	----

Specially filtered for use in tissue processors.
4to5%w/w; [50-00-0, 67-56-1, 7558-79-4, 10049-21-5, 7732-18-5]
Melting Point: 0°C; **Flash Point:** 81°C/177.8°F
Boiling Point: 93.9° to 100°C/201° to 212°F
Density: 1.0; **DOT Class 9**: Miscellaneous; **UN** 3334; Specially filtered for use in tissue processors.
Buffered with Phosphate in accordance with A.F.I.P. Manual of Histology.

ChemAlert® Storage Code BLUE

Formamide — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**F84-1**	411.00	6/1709.00

≥99.5 %; Methanamide, CH_3NO; $HCONH_2$; **F.W.** 45.04; [75-12-7]
Melting Point: 2° to 3°C; **Boiling Point:** 210°C; **Density:** 1.13g/mL

ChemAlert® Storage Code BLUE

Formamide — For molecular biology

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC32723-5000**	189.00	----

99%; CH_3NO; $HCONH_2$; **F.W.** 45.04; [75-12-7]; **Melting Point:** 2.0°C to 3.0°C
Flash Point: 175°C; **Boiling Point:** 210.0°C; **Density:** 1.1330g/mL
n: 1.4460 to 1.4480

Formic Acid, 88% — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**A118P-100**	57.30	6/265.50
500mL	Poly Bottle	**A118P-500**	165.50	6/549.50
4L	Poly Bottle	**A118P-4**	675.00	4/1503.00

Methanoic Acid, CH_2O_2; HCOOH; **F.W.** 46.03; [64-18-6]
Flash Point: 50°C/122°F; **Density:** 1.29g/mL
DOT Class 8: Corrosive; **UN** 1779
Recommended Storage: Store separately from sulfuric acid and caustics.

ACID

ChemAlert® Storage Code WHITE

Formic Acid, 88% — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**A119P-500**	159.60	6/783.50
1L	Poly Bottle	**A119P-1**	191.76	6/654.98
4L	Poly Bottle	**A119P-4**	413.50	4/915.50

CH_2O_2; HCOOH; **F.W.** 46.03; [64-18-6]
Flash Point: 50°C/122°F; **DOT Class 8**: Corrosive
UN 1779; **Recommended Storage:** Store separately from sulfuric acid and caustics.

ACID

ChemAlert® Storage Code WHITE

Fuchsin Acid — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**F97-25**	218.50	6/982.50

Acid Rubin, Acid Magenta, Acid Violet 19, $C_{20}H_{17}N_3O_9S_3Na_2$
F.W. 585.54; [3244-88-0]; **C.I.** 42685; For use in histology and in Andrade Indicator.
Optical Density is 1.10-1.26.

ChemAlert® Storage Code GRAY

Fisher Scientific

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Prices subject to change.

Fuchsin Basic — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**F98-10**	113.80	6/517.00

Fusion Basic; Magenta, Pararosaniline, $C_{20}H_{20}ClN_3$; [632-99-5]
C.I. 42510; **Melting Point:** 250°C; **Flash Point:** 200°C/392°F
For use in histology, Feulgen reactions, and bacteriology (staining and in media).

ChemAlert® Storage Code: GRAY

Gallic Acid Monohydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A122-500**	387.47	6/1686.21

Powder; $C_6H_2(OH)_3COOH{\cdot}H_2O$; $C_6H_2(OH)_3COOH{\cdot}H_2O$
F.W. 188.14; [5995-86-8]; **Melting Point:** 250°C; **Density:** 1.69g/mL

ChemAlert® Storage Code: GRAY

Gallium(III) chloride — (trace metal basis)

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Glass Bottle	**AC44410-0050**	50.20	----

For ultra trace analysis; 99.99+%; Cl_3Ga; $GaCl_3$; **F.W.** 176.08; [13450-90-3]
Melting Point: 78.0°C; **Boiling Point:** 201.0°C

Glycine — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
25kg	Fiber Drum	**AC22091-0250**	848.40	----

Biological buffer; 99+%; Gly, Amino acetic acid, $C_2H_5NO_2$; $H_2NCH_2CO_2H$
F.W. 75.07; [56-40-6]; **Melting Point:** 182.0°C; **Boiling Point:** > 233.0°C
Density: 1.5950g/mL

Glycolic acid

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC15451-0025**	736.60	----

99%; Hydroxyacetic acid, $C_2H_4O_3$; $HOCH_2CO_2H$; **F.W.** 76.04; [79-14-1]
Melting Point: 72.0°C to 80.0°C; **Flash Point:** >300°C
Boiling Point: 100.0°C

Glutaraldehyde Solution, 25% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O2957-1**	190.80	6/787.00
4L	Glass Bottle	**O2957-4**	515.79	4/1353.38

24.0 to 26.5 %; 1,5-Pentanedial, Glutarol, Cidex, Glutaricdialdehyde, $C_5H_8O_2$; $HC(O)(CH_2)_3CHO$
F.W. 100.12; [111-30-8, 7732-18-5]; **Melting Point:** –24.44°C
Density: 1.05; **DOT Class 6.1**: Poison; **UN** 2810

ChemAlert® Storage Code: BLUE

Glutaraldehyde Solution, 50% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**G151-1**	215.00	6/873.50

49.0 to 52.0 %; 1,5-Pentanedial, Glutarol, Glutaricdialdehyde, Cidex, $C_5H_8O_2$; $HC(O)(CH_2)_3CHO$; **F.W.** 100.12; [111-30-8, 7732-18-5]
Melting Point: –21°C; **Boiling Point:** 101°C
Density: 1.05 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 2927
Recommended Storage: Refrigerate

ChemAlert® Storage Code: WHITE

Glycine — USP/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Poly Bottle	**G45-212**	546.50	----
12kg	Poly Pail	**G45-12**	2114.97	----

Crystalline Granules or Powder; Aminoacetic Acid, Aminoethanoic Acid, Gyn-Hydralin, $C_2H_5NO_2$; $CH_2(NH_2)(COOH)$
F.W. 75.07; [56-40-6]; **Melting Point:** 182° to 236°C/359.6° to 456.8°F
Density: 1.16g/mL

ChemAlert® Storage Code: GRAY

Glycine — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**G48-500**	225.00	6/925.50
2.5kg	Poly Bottle	**G48-212**	696.50	4/2040.00
12kg	Poly Pail	**G48-12**	2700.00	----

Crystalline Granules or Powder; Aminoacetic Acid, Aminoethanoic Acid, Gyn-Hydralin, $C_2H_5NO_2$; $CH_2(NH_2)(COOH)$
F.W. 75.07; [56-40-6]; **Melting Point:** 182° to 236°C/359.6° to 456.8°F
Density: 1.16g/mL

ChemAlert® Storage Code: GRAY

Glycine — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**G46-500**	153.80	6/647.50
1kg	Poly Bottle	**G46-1**	252.00	6/1091.00

Crystalline; Aminoacetic Acid, Aminoethanoic Acid, Gyn-Hydralin, $C_2H_5NO_2$; NH_2CH_2COOH; **F.W.** 75.07; [56-40-6]
Melting Point: 182° to 236°C/359.6° to 456.8°F; **Density:** 1.16g/mL
For amino acid nitrogen standards.

ChemAlert® Storage Code: GRAY

Gold Chloride

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**3295-4**	729.00	----
500mL	Amber Glass	**3295-16**	1158.00	----

Clear, yellow liquid; [7732-18-5, 16961-25-4]

Hematoxylin — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**H345-25**	302.00	6/1316.00
100g	Glass Bottle	**H345-100**	825.50	6/3740.00

Natural Black 1, Hydroxybrasilin, $C_{16}H_{14}O_6$
F.W. 302.28; [517-28-2];**C.I.** 75290; **Melting Point:** 100° to 120°C
For use in histology and cytology.

ChemAlert® Storage Code: GRAY

n-Heptane — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**H360-1**	176.30	6/807.00
4L	Glass Bottle	**H360-4**	331.00	4/1303.00

99.0%; C_7H_{16}; $CH_3(CH_2)_5CH_3$; **F.W.** 100.20; [142-82-5]
Melting Point: –91°C; **Flash Point:** –4°C/+24.8°F
Boiling Point: 98°C; **Density:** 3.5 (Air = 1.0)
DOT Class 3: Flammable Liquid

SOLVENT

ChemAlert® Storage Code: RED

Heptane — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**H3501**	149.07	6/578.44
1L	Glass Bottle/ Safe-Cote	**H350SK-1**	169.00	6/650.00
4L	Glass Bottle	**H350-4**	305.00	4/1059.00
4L	Glass Bottle/ Safe-Cote	**H350SK-4**	305.50	4/1079.00

SOLVENT — ChemAlert® Storage Code RED

Mobile phase for HPLC applications.; 96% min by GC
C_7H_{16}; $CH_3(CH_2)_5CH_3$; **F.W.** 100.2
[142-82-5, 28729-52-4, 26635-64-3, 108-87-2]
Melting Point: –91°C; **Flash Point:** –4°C/+24.8°F
Boiling Point: 98°C; **Density:** 3.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1206; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.

Heptane — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**H340-4**	457.00	4/1266.00

SOLVENT — ChemAlert® Storage Code RED

C_7H_{16}; $CH_3(CH_2)_5CH_3$; **F.W.** 100.2
[142-82-5, 28729-52-4, 26635-64-3, 108-87-2]
Melting Point: –91°C; **Flash Point:** –4°C/+24.8°F
Boiling Point: 98°C; **Density:** 3.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1206; For use in the ultraviolet and infrared ranges.

Heptane — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O3008-1**	235.00	6/977.50
4L	Glass Bottle	**O3008-4**	436.50	4/1174.00

SOLVENT — ChemAlert® Storage Code RED

C_7H_{16}; $CH_3(CH_2)_5CH_3$; **F.W.** 100.2
[142-82-5, 28729-52-4, 26635-64-3, 108-87-2]
Melting Point: –91°C; **Flash Point:** –4°C/+24.8°F
Boiling Point: 98°C; **Density:** 3.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1206; Purity is guaranteed to meet published maximum limits of impurities.

Heptane — Technical Grade

Quantity	Packaging	Cat.No.	Each	Case of
20L	Steel Pail	**H20-20**	885.50	----
200L	Steel Drum	**H20-200**	5600.00	----

SOLVENT — ChemAlert® Storage Code RED

C_7H_{16}; **F.W.** 100.2; [142-82-5]; **Melting Point:** –91°C
Flash Point: –4°C/+24.8°F; **Boiling Point:** 98°C
Density: 3.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1206

Hexadecyltrimethylammonium bromide

Quantity	Packaging	Cat.No.	Each	Case of
25g	Plastic Bottle	**AC22716-0250**	18.54	----
100g	Plastic Bottle	**AC22716-1000**	45.40	----
500g	Plastic Bottle	**AC22716-5000**	135.10	----

Phase transfer catalyst; 99+%; Cetrimonium bromide, Cetyltrimethylammonium bromide, CTABr, $C_{19}H_{42}BrN$; $CH_3(CH_2)_{15}N(CH_3)_3Br$
F.W. 364.45; [57-09-0]; **Melting Point:** 230.0°C; **Flash Point:** 244°C

n-Hexane — For analysis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC16078-0010**	78.40	313.60
2.5L	Glass Bottle	**AC16078-0025**	160.60	642.40

99+%; Hex, C_6H_{14}; $CH_3(CH_2)_4CH_3$; **F.W.** 86.18; [110-54-3]
Melting Point: – 95.0°C; **Flash Point:** –22°C; **Boiling Point:** 69.0°C
Density: 0.6590g/mL; **n:** 1.3748 to 1.3810; **UN** 1208

n-Hexane — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass, EcoSafPak	**H306-1**	128.40	599.00
4L	Amber Glass, EcoSafPak	**H306-4**	257.64	900.25
4L	Amber Glass/ Safe-Cote, EcoSafPak	**H306SK-4**	266.00	790.50

Also meets ACS specifications; 95%; C_6H_{14}; **F.W.** 86.17
[110-54-3 (n-Hexane, 95%), 107-83-5 (2-Methylpentane, 2.3%), 96-14-0 (3-Methylpentane, 1.0%)]; **DOT Class 3**: Flammable Liquid; **UN** 1208
Suitable for HPLC, spectrophotometry, and gas chromatography.

n-Hexane — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC23210-0025**	154.80	----

95+%; Hex, C_6H_{14}; $CH_3(CH_2)_4CH_3$; **F.W.** 86.18; [110-54-3]
Melting Point: – 95.0°C; **Flash Point:** –22°C; **Boiling Point:** 69.0°C
Density: 0.6590g/mL; **n:** 1.3748 to 1.3810; **UN** 1208

n-Hexane — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC19736-0010**	61.20	244.80
2.5L	Glass Bottle	**AC19736-0025**	111.70	446.80
25L	Metal Drum	**AC19736-0250**	777.10	----

95+%; Hex, C_6H_{14}; $CH_3(CH_2)_4CH_3$; **F.W.** 86.18; [110-54-3]
Melting Point: – 95.0°C; **Flash Point:** –22°C; **Boiling Point:** 69.0°C
Density: 0.6590g/mL; **n:** 1.3748 to 1.3810; **UN** 1208

Fisher Scientific
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Prices subject to change.

Hexanes — GC Resolv

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**H307-4**	251.13	4/648.12

SOLVENT — ChemAlert® Storage Code RED

High purity solvent for sample prep prior to trace analysis by GC and/or GC/MS.; 99.9% min by GC (aliphatic C6 hydrocarbons); 65% min ntohexane
C_6H_{14}; **F.W.** 86.18; [110-54-3]; **Melting Point:** –95°C
Flash Point: –22°C/–7.6°F; **Boiling Point:** 62° to 69°C
Density: 2.97 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1208
High purity solvent for GC, GC/MS, pesticide residue analysis, and trace analysis.
Solvent is concentrated 500-fold and evaluated for ECD-responsive substances at ppt levels.
Solvent is concentrated 500-fold and evaluated for FID-responsive substances at ppb levels.

Hexanes — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**H303-1**	103.06	6/485.21
4L	Glass Bottle	**H303-4**	209.00	4/675.00
4L	Glass Bottle/Safe-Cote	**H303SK-4**	224.50	4/708.00

SOLVENT — ChemAlert® Storage Code RED

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC; C_6H_{14}
F.W. 86.18; [110-54-3]; **Melting Point:** –95°C
Flash Point: –22°C/–7.6°F; **Boiling Point:** 62° to 69°C
Density: 2.97 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1208
High purity and versatile solvent for HPLC, GC, GC/MS, and pesticide residue analysis. High UV transmittance and low evaporation residue.
Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.

Hexanes — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**H302-1**	99.20	6/391.50
1L	Glass Bottle/Safe-Cote	**H302SK-1**	142.60	6/529.00
4L	Glass Bottle	**H302-4**	179.55	563.91
4L	Glass Bottle/Safe-Cote	**H302SK-4**	202.50	4/639.50
19L	NOWPAK I	**H302N1-19**	669.00	----

SOLVENT — ChemAlert® Storage Code RED

Mobile phase for HPLC applications.; 98.5% min by GC
C_6H_{14}; **F.W.** 86.18; [110-54-3]; **Melting Point:** –95°C
Flash Point: –22°C/–7.6°F; **Boiling Point:** 62° to 69°C
Density: 2.97 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1208; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a sub-micron filter to remove particulates.

Hexanes — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**H334-1**	293.50	6/1175.00

SOLVENT — ChemAlert® Storage Code RED

Also meets ACS specifications; ≥98.5 %
Naphtha Solvent, C_6H_{14}; **F.W.** 86.18; [110-54-3]
Melting Point: –95°C; **Flash Point:** –22°C/–7.6°F
Boiling Point: 62° to 69°C; **Density:** 2.97 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1208; Suitable for use in ultraviolet and infrared spectroscopy.

Hexanes — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**H300-4**	210.50	4/661.00

SOLVENT — ChemAlert® Storage Code RED

C_6H_{14}; **F.W.** 86.18; [110-54-3]; **Melting Point:** –95°C
Flash Point: –22°C/–7.6°F; **Boiling Point:** 62° to 69°C
Density: 2.97 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1208; For pesticide residue analysis by GC-ECD.
Suitable for sample prep prior to GC-ECD for environmental applications.
This product also meets ACS specifications.

Hexanes — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**H292-500**	75.49	6/324.31
1L	Glass Bottle	**H292-1**	130.90	6/364.50
4L	Glass Bottle	**H292-4**	216.70	4/866.80
4L	Glass Bottle/ Safe-Cote	**H292SK-4**	287.00	4/796.00
20L	Steel Pail	**H292-20**	666.00	----
200L	Steel Drum	**H292-200**	2890.00	----

SOLVENT — ChemAlert® Storage Code RED

Various methylpentanes 4.2%; ≥98.5 %; C_6H_{14}
F.W. 86.18; [110-54-3]; **Melting Point:** –95°C
Flash Point: –6.7°C/+20°F; **Boiling Point:** 65.5° to 68.3°C/150° to 155°F; **Density:** 0.68g/mL; **DOT Class 3**: Flammable Liquid
UN 1208; Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

Hexanes — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**H291-500**	78.00	6/314.93
4L	Glass Bottle	**H291-4**	250.76	4/711.01
20L	Steel Pail	**H291-20**	701.00	----
200L	Steel Drum	**H291-200**	3689.20	----

SOLVENT — ChemAlert® Storage Code RED

Petroleum Naptha solvent; Naphtha Solvent, Petroleum Naphtha Solvent, C_6H_{14}
F.W. 86.18; [110-54-3, 110-82-7, 64742-49-0]
Melting Point: –95°C; **Flash Point:** –22°C/–7.6°F; **Boiling Point:** 62° to 69°C
Density: 2.97 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1208; Purity is guaranteed to meet published maximum limits of impurities.

Hexanes — Technical Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Aluminum Can	**N3S-4**	146.00	4/444.50
20L	Steel Pail	**N3-20**	531.50	----

Hexanes — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61007-0040**	154.10	4/616.40

For HPLC; Hex, C_6H_{14}; $CH_3(CH_2)_4CH_3$; **F.W.** 86.18; [92112-69-1, 110-54-3]
Melting Point: – 95.0°C; **Flash Point:** –22°C; **Boiling Point:** 69.0°C
Density: 0.6590g/mL; **n:** 1.3748 to 1.3810; **UN** 1208

Hydrobromic Acid, 47-49% — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A140-500**	268.50	6/913.50

ACID — ChemAlert® Storage Code WHITE

47.0 to 49.0 %; HBr; **F.W.** 80.91; [10035-10-6, 7732-18-5]
Melting Point: –11°C; **Boiling Point:** 126° to 128°C
Density: 1.49g/mL; **DOT Class 8**: Corrosive; **UN** 1788
Note: This reagent may darken on standing.

Hydrochloric Acid — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	PFA Bottle	**A466-250**	365.50	----
500mL	PFA Bottle	**A466-500**	494.50	----
1L	PFA Bottle	**A466-1**	917.50	----
2L	FEP Bottle	**A466-2**	1463.00	----

Muriatic Acid, HCl; **F.W.** 36.46; [7647-01-0]
DOT Class 8: Corrosive; **UN** 1789; Ideal for analysis by ICP-MS and high-resolution ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code WHITE

Hydrochloric Acid — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**A481-212**	132.10	----

Muriatic Acid, $HCl{\cdot}H_2O$; **F.W.** 36.46; [7647-01-0, 7732-18-5]
Melting Point: –66°C; **Boiling Point:** 83°C
Density: 1.27 (Air = 1.0); **DOT Class 8**: Corrosive
UN 1789

ACID — ChemAlert® Storage Code WHITE

Hydrochloric Acid — Technical

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass	**A142-212**	72.00	----

Muriatic Acid, $HCl{\cdot}H_2O$; **F.W.** 36.46; [7647-01-0, 7732-18-5]
Melting Point: –66°C; **Boiling Point:** 83°C
Density: 1.27 (Air = 1.0); **DOT Class 8**: Corrosive
UN 1789

ACID — ChemAlert® Storage Code WHITE

Hydrochloric Acid — TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	HDPE Bottle	**A508-P500**	86.51	----
2.5L	HDPE Bottle	**A508-P212**	167.50	----
4L	HDPE Bottle	**A508-4**	177.60	4/601.50

Muriatic Acid, HCl; **F.W.** 36.46; [7647-01-0]
DOT Class 8: Corrosive; **UN** 1789; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code WHITE

Hydrochloric Acid Concentrate, 1N — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**SA55**	70.50	6/321.50

Concentrate; Muriatic Acid, HCl; [7647-01-0, 7732-18-5]
Melting Point: –17°C; **Boiling Point:** 81.5° to 110°C
Density: 1.16g/mL; **DOT Class 8**: Corrosive; **UN** 1789
Each bottle contains exact amount of 1N concentrate required to make 1 liter of 0.1N (N/10) solution.

ACID — ChemAlert® Storage Code WHITE

Hydrochloric Acid Solution, 0.01N (N/100) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA62-1**	61.60	6/284.50

HCl; [7647-01-0, 7732-18-5]; **Melting Point:** –17°C
Boiling Point: 81.5° to 110°C; **Density:** 1.16g/mL
DOT Class 8: Corrosive; **UN** 1789; Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code GRAY

Hydrochloric Acid Solution, 0.02N (N/50) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA60-1**	65.50	6/293.00

Muriatic Acid, HCl; [7647-01-0, 7732-18-5]; **Melting Point:** –17°C
Boiling Point: 81.5° to 110°C; **Density:** 1.16g/mL; Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ChemAlert® Storage Code GRAY

Hydrochloric Acid Solution, 0.1N (N/10) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA54-1**	58.10	6/263.50
4L	Poly Bottle	**SA54-4**	121.40	4/366.00
10L	PolyPac	**SA54-10**	274.50	----
20L	PolyPac	**SA54-20**	330.50	----

HCl; [7647-01-0, 7732-18-5]; **Melting Point:** –17°C
Boiling Point: 81.5° to 110°C; **Density:** 1.16g/mL
DOT Class 8: Corrosive; **UN** 1789; Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Hydrochloric Acid Solution, 0.1N — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**ST111-500**	80.00	6/354.00

[7647-01-0, 67-63-0]; **Melting Point:** –88.89°C
Flash Point: 15°; **Boiling Point:** 82.78°C
Density: 0.8g/mL; **DOT Class 3**: Flammable Liquid
UN 2924; Suitable for use as a titration standard.

ACID — ChemAlert® Storage Code RED

Hydrochloric acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC12420-0010**	41.50	----

Volumetric standard solution; ClH; HCl; **F.W.** 36.45; [7647-01-0, 7732-18-5]
Boiling Point: 100.0°C; **Density:** 1.0000g/mL

Hydrochloric Acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**3800-32**	84.90	----
4L	Poly Natural	**3800-1**	199.50	----

Clear, colorless liquid; [7647-01-0 (Hydrochloric Acid), 67-63-0 (isopropyl alcohol)]; **Melting Point:** Approx. -88; **Boiling Point:** Approx. 82

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Prices subject to change.

Hydrochloric Acid

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**3600-1**	59.20	----
20L	Cubitainer	**3600-5**	154.40	----

Muriatic Acid, HCl; [7732-18-5, 7647-01-0]

Hydrochloric Acid Solution, 0.2N (N/5)

Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SA52-500**	54.10	6/244.50
20L	PolyPac	**SA52-20**	456.00	----

HCl; [7647-01-0, 7732-18-5]; **Melting Point:** –17°C
Boiling Point: 81.5° to 110°C; **Density:** 1.16g/mL
DOT Class 8: Corrosive; **UN** 1789; Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID

ChemAlert® Storage Code WHITE

Hydrochloric Acid Solution, 0.5N (N/2)

Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA50-1**	77.30	6/351.50
4L	Poly Bottle	**SA50-4**	163.90	4/489.50
20L	PolyPac	**SA50-20**	476.00	----

Muriatic Acid, HCl; [7647-01-0, 7732-18-5]
Melting Point: –17°C; **Boiling Point:** 81.5° to 110°C
Density: 1.16g/mL; **DOT Class 8**: Corrosive; **UN** 1789
Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID

ChemAlert® Storage Code WHITE

Hydrochloric Acid Solution, 1N

Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SA48-500**	49.80	6/232.00
1L	Poly Bottle	**SA48-1**	66.50	6/300.50
4L	Poly Bottle	**SA48-4**	137.40	4/417.50
20L	PolyPac	**SA48-20**	375.47	----

Muriatic Acid, HCl; [7647-01-0, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1789; Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID

ChemAlert® Storage Code WHITE

Hydrochloric acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC12421-0010**	41.00	----

Volumetric standard solution; ClH; HCl; **F.W.** 36.45; [7647-01-0, 7732-18-5]
Boiling Point: 100.0°C to 103.0°C; **Density:** 1.0200g/mL; **UN** 1789

Hydrochloric Acid Solution, 2N

Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SA431-500**	65.80	6/291.15

Muriatic Acid, HCl; [7647-01-0, 7732-18-5]
Melting Point: –17°C; **Boiling Point:** 81.5° to 110°C
Density: 1.16g/mL; **DOT Class 8**: Corrosive; **UN** 1789
Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID

ChemAlert® Storage Code WHITE

Hydrochloric Acid

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**3710-1**	103.20	----
20L	Cubitainer	**3710-5**	252.00	----

Clear, colorless liquid; Muriatic Acid, HCl; [7732-18-5, 7647-01-0]

Hydrochloric Acid Solution, 6N

Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SA56-500**	93.70	6/473.00
1L	Glass Bottle	**SA56-1**	111.20	6/560.50
4L	Glass Bottle	**SA56-4**	218.00	4/747.50

Muriatic Acid, $HCl{\cdot}H_2O$; [7732-18-5, 7647-01-0]
Melting Point: –74°C; **Boiling Point:** 81.5° to 110°C
Density: 1g/mL; **DOT Class 8**: Corrosive; **UN** 1789
Standardized at 25°C to pH 8.2 against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID

ChemAlert® Storage Code WHITE

Hydrochloric Acid Concentrate, 10N

Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**SA49**	65.70	6/292.50

Concentrate; $HCl{\cdot}H_2O$; [7647-01-0, 7732-18-5]
Melting Point: –66°C; **Boiling Point:** 83°C
Density: 1.27 (Air = 1.0); **DOT Class 8**: Corrosive
UN 1789; Each bottle contains exact amount of 10N concentrate required to make 1 liter of 1N or 10 liters of 0.1N (N/10) solution.

ACID

ChemAlert® Storage Code WHITE

Hydrochloric Acid

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**3582-1**	95.50	----

Clear, orange colored liquid; [7647-01-0 (Hydrochloric Acid), 547-58-0 (Methyl Orange, Sodium Salt)];

Hydrochloric acid

ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC42379-5000**	53.60	267.00
2.5L	Glass Bottle, EcoSafPak	**AC42379-0025**	95.40	317.00

Muriatic acid, ClH; HCl; **F.W.** 36.45; [7647-01-0, 7732-18-5]
Melting Point: – 35.0°C; **Boiling Point:** 57.0°C; **Density:** 1.1800g/mL
UN 1789

Hydrofluoric Acid

TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	LDPE Bottle	**A513-500**	177.93	----
4L	HDPE Bottle	**A513-4**	2340.00	----

HF; **F.W.** 20.01; [7664-39-3]; **DOT Class 8**: Corrosive
UN 1790; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID

ChemAlert® Storage Code WHITE

Hydrofluoric Acid — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	PFA Bottle	**A463-250**	853.28	----
500mL	PFA Bottle	**A463-500**	1432.00	----
1L	PFA Bottle	**A463-1**	2390.00	----
2L	PFA Bottle	**A463-2**	3650.00	----

HF; **F.W.** 20.01; [7664-39-3]; **DOT Class 8**: Corrosive
UN 1790; Ideal for analysis by ICP-MS and high-resolution ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code WHITE

Hydrofluoric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
10 lb.	Poly Bottle	**A147-10LB**	559.50	4/1254.00

48.0 to 51.0 w/w %; Fluorhydric Acid, Hydrogen Fluoride, HF; **F.W.** 20.01 [7732-18-5, 7664-39-3]; **Melting Point:** –35°C
Boiling Point: 105°C; **Density:** 2.21 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 1790

ACID — ChemAlert® Storage Code WHITE

Hydrofluoric Acid, 48-50% — Technical

Quantity	Packaging	Cat.No.	Each	Case of
10 lb.	Poly Bottle	**A146-10LB**	1990.00	----

48 to 50 w/w %; HF; **F.W.** 20.01; [7732-18-5, 7664-39-3]
Melting Point: –35°C; **Boiling Point:** 105°C
Density: 2.21 (Air = 1.0); **DOT Class 8**: Corrosive
UN 1790

ACID — ChemAlert® Storage Code WHITE

Hydrofluoric acid — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Plastic Bottle	**AC22333-5000**	47.10	----

HF; HF; **F.W.** 20.00; [7664-39-3, 7732-18-5]; **Melting Point:** – 35.0°C
Boiling Point: 105.0°C; **Density:** 1.1500g/mL; **UN** 1790

Hydrogen chloride

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC44585-1000**	71.20	----

3M solution in CPME; ClH; HCl; **F.W.** 36.45; [7647-01-0, 5614-37-9]
Flash Point: –1°C; **Boiling Point:** 106.0°C; **Density:** 0.8950g/mL

Hydrogen chloride — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Plastic Bottle	**AC13370-0025**	269.00	----

ClH; HCl; **F.W.** 36.45; [7647-01-0, 67-63-0]; **Flash Point:** 11°C
Density: 0.9090g/mL

Hydrogen Peroxide — Optima

Quantity	Packaging	Cat.No.	Each	Case of
500mL	FEP Bottle	**P170-500**	674.00	----

Crystalline; H_2O_2; **F.W.** 34.02; [7722-84-1]; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

Hydrogen Peroxide, 50% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**H341-500**	189.74	6/823.06

48 to 51 %; Hydrogen Dioxide, Hyperoxide, H_2O_2
F.W. 34.01; [7722-84-1, 7732-18-5]; **Melting Point:** –33°C
Boiling Point: 108°C; **Density:** 1.1g/mL; **DOT Class 5.1**: Oxidizer
UN 2014

ChemAlert® Storage Code YELLOW

Hydrogen Peroxide, 34-37% — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**H327-500**	181.00	6/802.70

34 to 37 %; Hydrogen Dioxide, Hyperoxide, H_2O_2; **F.W.** 34.01 [7722-84-1, 7732-18-5, 12058-66-1]; **Melting Point:** –33°C
Boiling Point: 108°C; **Density:** 1.1g/mL; **DOT Class 5.1**: Oxidizer
UN 2014

ChemAlert® Storage Code YELLOW

Hydrogen Peroxide, 30% — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**H325-100**	75.80	6/342.50
500mL	Poly Bottle	**H325-500**	160.20	6/721.00
4L	Poly Bottle	**H325-4**	781.40	4/2458.71
30 gal.	Poly Drum	**H325-30GAL**	920.50	----

30.0 to 32.0 %; Hyperoxide, H_2O_2; **F.W.** 34; [7722-84-1, 7732-18-5]
Melting Point: –33°C; **Boiling Point:** 108°C; **Density:** 1.10
DOT Class 5.1: Oxidizer; **UN** 2014

ChemAlert® Storage Code YELLOW

Hydrogen Peroxide, 30% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**H323-500**	189.60	6/845.00

29 to 36 %; Hydrogen Dioxide, Hyperoxide, H_2O_2
F.W. 34.01; [7722-84-1, 7732-18-5, 12058-66-1]
Melting Point: –33°C; **Boiling Point:** 108°C; **Density:** 1.1g/mL
DOT Class 5.1: Oxidizer; **UN** 2014

ChemAlert® Storage Code YELLOW

Hydrogen Peroxide — ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**38217-16**	129.80	----
1L	Poly Natural	**38217-32**	188.80	----
4L	Poly Natural	**38217-1**	356.00	----
20L	Cubitainer	**38217-5**	528.00	----

Clear, colorless liquid; [7722-84-1, 7732-18-5]

Fisher Scientific
*Trademark. See trademarks at www.fishersci.com
Prices subject to change.

Hydrogen Peroxide — USP

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**H312-500**	101.30	6/450.00
4L	Glass Bottle	**H312-4**	377.64	4/1075.91
4L	Poly Bottle	**H312P-4**	293.50	4/876.50

3% w/v; Hydrogen Dioxide, Hyperoxide, H_2O_2
F.W. 34.01; [7722-84-1, 7732-18-5]; **Density:** >1.00

ChemAlert* Storage Code GRAY

Hydrogen Peroxide, 3% — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**H324-500**	85.10	6/380.00

3.0 to 3.5 %; Hydrogen Dioxide, Hyperoxide, H_2O_2
F.W. 34.01; [7722-84-1, 7732-18-5]; **Density:** >1.00

ChemAlert* Storage Code GRAY

Hydroxynaphthol Blue — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**H346-100**	439.00	6/1900.00

1-(2-Naphtholazo-3,6-disulfonic Acid)-2-naphthol-4-sulfonic Acid Disodium Salt, $C_{20}H_{11}N_2Na_3O_{11}S_3$; **F.W.** 620.47; [63451-35-4]
Used as an indicator for EDTA titrimetric determination of calcium. Color changes from reddish pink to blue.

ChemAlert* Storage Code GRAY

Iodine — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**I37-100**	445.50	6/1813.00
500g	Glass Bottle	**I37-500**	1150.00	6/4690.00

Flakes; ≥99.8 %; I_2; **F.W.** 253.81; [7553-56-2]
Melting Point: 113°C; **Boiling Point:** 184°C; **Density:** 4.93g/mL
DOT Class 8: Corrosive; **UN** 1759

ChemAlert* Storage Code WHITE

Iodine (Iodine-Iodide) Solution

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**3990-1**	168.70	----

Iodine (Iodine-Iodide) Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**4000-32**	48.00	----
4L	Amber Glass	**4000-1**	322.50	----

Dark brown liquid; [7553-56-2 (Iodine), 7681-11-0 (Potassium Iodide), 7732-18-5 (Water, Deionized)]

Iodine — USP

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**I35-100**	402.00	6/1690.00
500g	Glass Bottle	**I35-500**	1010.00	6/4180.00

Resublimed Crystals; 99.8 to 100.5 %; I_2; **F.W.** 253.81; [7553-56-2]
Melting Point: 113°C; **Boiling Point:** 184°C; **Density:** 4.93g/mL
DOT Class 8: Corrosive; **UN** 1759

ChemAlert* Storage Code WHITE

Iodine Solution, 0.02N (N/50) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SI92-1**	125.20	6/560.00

[7553-56-2, 7681-11-0, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL

ChemAlert* Storage Code GRAY

Iodine Solution, 0.1N (N/10) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SI86-1**	81.10	6/363.00

[7681-11-0, 7553-56-2, 7732-18-5]; **Melting Point:** 0°C
Density: 0.7; Standardized volumetrically at 25°C against NIST* arsenous acid.

ChemAlert* Storage Code GRAY

Iodine Solution, 1N — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SI78-500**	158.31	6/689.48

[7553-56-2, 7681-11-0, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; **DOT Class 8**: Corrosive; **UN** 1760; Standardized volumetrically at 25°C against NIST* arsenous acid.

ChemAlert* Storage Code GRAY

Iodine Solution, Hanus

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SI98-500**	107.50	6/474.00

Hanus; Iodobromide Test Solution, [7726-95-6, 7553-56-2, 64-19-7]
Melting Point: 17°C; **Flash Point:** 38°; **Boiling Point:** 118°C
Density: 1.06g/mL; **DOT Class 8**: Corrosive; **UN** 2920; Used for iodine number determination.

ChemAlert* Storage Code WHITE

Iodine Solution, Wijs

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**SI106-500**	103.03	6/427.02
1L	Amber Glass	**SI106-1**	163.20	6/702.00
4L	Amber Glass	**SI106-4**	511.50	4/1457.00

WIJS; [7553-56-2, 64-19-7, 7782-50-5]; **Melting Point:** 17.2°C
Flash Point: 41°; **Boiling Point:** 117.8°C; **Density:** 1.06g/mL
DOT Class 8: Corrosive; **UN** 2920; For determination of iodine absorption number in fats. Approximately 0.22N solution in glacial acetic acid.

ChemAlert* Storage Code WHITE

Iodine — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC42382-0050**	27.60	----
500g	Glass Bottle	**AC42382-5000**	209.30	----

C-X bond formation reagent; 99.8+%; I_2; I_2; **F.W.** 253.81; [7553-56-2]
Melting Point: 113.0°C; **Boiling Point:** 185.0°C; **UN** 3495;

Iodine — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC19656-1000**	64.00	----
500g	Glass Bottle	**AC19656-5000**	185.00	----
2.5kg	Glass Bottle	**AC19656-0025**	725.60	----

C-X bond formation reagent; 99.5%; I_2; I_2; **F.W.** 253.81; [7553-56-2]
Melting Point: 113.0°C; **Boiling Point:** 185.0°C

Ionic Strength Adjustor

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**4128-32**	70.20	----

[7732-18-5, 1310-73-2, 67-56-1, 6381-92-6, 125-20-2]

Iron

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**I60-500**	206.50	6/856.50

Electrolytic Powder; ≥99 %; Fe; **F.W.** 55.85; [7439-89-6]
Melting Point: 1,535°C; **Boiling Point:** 2,750°C
Density: 7.86g/mL; **DOT Class 4.1**: Flammable Solid; **UN** 3089

ChemAlert* Storage Code RED

Iron

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**I57-500**	158.90	6/659.14

Filings, Degreased; Fe; **F.W.** 55.85; [7439-89-6]
Melting Point: 1,535°C; **Boiling Point:** 2,750°C
Density: 7.86g/mL; **DOT Class 4.1**: Flammable Solid; **UN** 3089

ChemAlert* Storage Code RED

Iron(o) pentacarbonyl

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC18762-0010**	326.20	----

Pentacarbonyl iron, C_5FeO_5; $Fe(CO)_5$; **F.W.** 195.90; [13463-40-6]
Melting Point: – 20.0°C; **Flash Point:** –15°C; **Boiling Point:** 103.0°C
Density: 1.4900g/mL; **UN** 1994

Iron(III) nitrate nonahydrate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC42371-0100**	930.20	----

98+%; Ferric nitrate, $FeN_3O_9{\cdot}9H_2O$; $Fe(NO_3)_3{\cdot}9H_2O$
F.W. 404.00; [7782-61-8]; **Melting Point:** 47.0°C; **Density:** 1.6800g/mL
UN 1466

Isooctane — Optima

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O301-4**	299.75	4/1046.61

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC
2,2,4-Trimethylpentane, Isobutyltrimethylmethane, C_8H_{18}; $(CH_3)_3CCH_2CH(CH_3)_2$; **F.W.** 114.23; [540-84-1]
Melting Point: –107°C; **Flash Point:** –12°C/+10.4°F
Boiling Point: 98° to 99°C; **Density:** 3.94 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1262; High purity and versatile solvent for HPLC, GC and pesticide residue analysis.
High UV transmittance and low evaporation residue.
Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.

SOLVENT

ChemAlert* Storage Code RED

Isooctane — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O296-1**	146.70	6/576.00
1L	Glass Bottle/ Safe-Cote	**O296SK-1**	148.80	6/892.80
4L	Glass Bottle	**O296-4**	233.00	4/730.00
4L	Glass Bottle/ Safe-Cote	**O296SK-4**	267.00	4/691.50

Also meets ACS specifications; ≥99 %
2,2,4-Trimethylpentane, C_8H_{18}; **F.W.** 114.23; [540-84-1]
Melting Point: –107°C; **Flash Point:** –12°C/+10.4°F
Boiling Point: 98° to 99°C; **Density:** 3.94 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1262; Submicron filtered.

SOLVENT

ChemAlert* Storage Code RED

Isooctane — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O300-1**	224.00	6/880.50
4L	Glass Bottle	**O300-4**	486.00	4/1458.00

Also meets ACS specifications; ≥99 %
2,2,4-Trimethylpentane, Isobutyltrimethylmethane, C_8H_{18}; $(CH_3)_3CCH_2CH(CH_3)_2$; **F.W.** 114.23; [540-84-1]
Melting Point: –107°C; **Flash Point:** –12°C/+10.4°F
Boiling Point: 98° to 99°C; **Density:** 3.94 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1262; For use in the ultraviolet and infrared ranges.

SOLVENT

ChemAlert* Storage Code RED

Isooctane — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O297-4**	249.50	4/656.50

2,2,4-Trimethylpentane, C_8H_{18}; $(CH_3)_3CCH_2CH(CH_3)_2$
F.W. 114.23; [540-84-1]; **Melting Point:** –107°C
Flash Point: –12°C/+10.4°F; **Boiling Point:** 98° to 99°C
Density: 3.94 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1262; Packaged under nitrogen.

SOLVENT

ChemAlert* Storage Code RED

Isooctane — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O299-1**	440.50	6/1818.00
4L	Glass Bottle	**O299-4**	877.00	4/2470.00

≥99 %; 2,2,4-Trimethylpentane, C_8H_{18}
$(CH_3)_3CCH_2CH(CH_3)_2$; **F.W.** 114.23; [540-84-1]
Melting Point: –107°C; **Flash Point:** –12°C/+10.4°F
Boiling Point: 98° to 99°C; **Density:** 3.94 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1262

SOLVENT

ChemAlert* Storage Code RED

Isopropanol — For spectroscopy

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC16788-0010**	48.20	160.00

For UV/VIS spectroscopy; 99+%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$; **F.W.** 60.10; [67-63-0]; **Melting Point:** – 89.5°C
Flash Point: 12°C; **Boiling Point:** 81.0°C to 83.0°C; **Density:** 0.7850g/mL
n: 1.3760 to 1.3780; **UN** 1219

Fisher Scientific

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Prices subject to change.

Isopropanol — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**AC61008-0040**	120.30	4/481.20

For HPLC; 99.9%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C
Boiling Point: 81.0°C to 83.0°C; **Density:** 0.7850g/mL; **n:** 1.3760 to 1.3780
UN 1219

Isopropanol — For electronic use

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC32793-0010**	72.60	----

99.8%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C
Boiling Point: 81.0°C to 83.0°C; **Density:** 0.7850g/mL; **n:** 1.3760 to 1.3780
UN 1219

Isopropanol — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC42383-5000**	39.40	6/236.40
1L	Glass Bottle	**AC42383-0010**	45.30	----
4L	EcoSafPak	**AC42383-0040**	107.60	4/357.50
20L	Glass Bottle	**AC42383-0200**	337.50	----

99.6%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C
Boiling Point: 81.0°C to 83.0°C; **Density:** 0.7850g/mL; **n:** 1.3760 to 1.3780
UN 1219

Isopropanol — Pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC14932-0010**	43.50	----
2.5L	Glass Bottle	**AC14932-0025**	72.60	290.40
5L	Plastic Jerry Can	**AC14932-0050**	118.50	----
25L	Metal Drum	**AC14932-0250**	383.30	----

99.5+%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C
Boiling Point: 81.0°C to 83.0°C; **Density:** 0.7850g/mL; **n:** 1.3760 to 1.3780
UN 1219

Isopropanol — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC61043-1000**	34.50	6/171.80

99.5%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C
Boiling Point: 81.0°C to 83.0°C; **Density:** 0.7850g/mL; **n:** 1.3760 to 1.3780
UN 1219

Isopropanol — For spectroscopy ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC41279-5000**	32.05	159.50

For UV/VIS spectroscopy; 99.5%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$; **F.W.** 60.10; [67-63-0]; **Melting Point:** – 89.5°C
Flash Point: 12°C; **Boiling Point:** 81.0°C to 83.0°C; **Density:** 0.7850g/mL
n: 1.3760 to 1.3780; **UN** 1219

Isopropanol — For molecular biology

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC32727-0010**	90.30	----

99.5%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 81.0° to 83.0°C; **Density:** 2.1 (Air = 1.0); **n:** 1.3760 to 1.3780
UN 1219

Isopropanol — For biochemistry and histology

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC44708-0010**	33.30	----
2.5L	AcroSeal® Glass Bottle	**AC44708-0025**	79.40	----

99%; Isopropyl alcohol, 2-Propanol, IPA, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** – 89.5°C; **Flash Point:** 12°C
Boiling Point: 81.0°C to 83.0°C; **Density:** 0.7850g/mL; **n:** 1.3760 to 1.3780

Isopropanol

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**4210-16**	41.60	----
1L	Poly Natural	**4210-32**	51.70	----
4L	Poly Natural	**4210-1**	246.00	----
4L	Amber Glass	**4210-1G**	113.60	----
10L	Cubitainer	**4210-25**	244.50	----
20L	Cubitainer	**4210-5**	378.22	----
20L	Hard-Pak	**4210-5HP**	367.50	----
55 gal	Drum	**4210-55**	1347.00	----

2-Propanol, [7732-18-5, 67-63-0]

Kanamycin sulfate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC61129-0050**	71.10	----

$C_{18}H_{36}N_4O_{11}{\cdot}H_2SO_4$; **F.W.** 582.59; [25389-94-0]

Kauri Gum Solution

Quantity	Packaging	Cat.No.	Each	Case of
1 qt.	Metal Can	**SK7-1QT**	582.50	12/5230.00

[77465-88-4, 71-36-3]; **Flash Point:** 47°
DOT Class 3: Flammable Liquid; **UN** 1120

ChemAlert® Storage Code RED

Kjel-Sorb* Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle, EcoSafPak	**SK15-4**	86.10	4/280.50
20L	PolyPac	**SK15-20**	238.50	----

[10043-35-3]; **DOT Class 9**: Miscellaneous; Saturated boric acid solution with indicator for use in Kjeldahl determinations.

ChemAlert® Storage Code GRAY

Lactic Acid — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A159-500**	197.50	6/863.00

2-Hydroxypropanoic Acid, $C_3H_6O_3$; $CH_3CH(OH)CO_2H$
F.W. 90.08; [50-21-5, 97-73-4]; **Melting Point:** 18°C
Boiling Point: 122°C at 15 mmHg; **Density:** 1.2g/mL
DOT Class 8: Corrosive; **UN** 3265

ChemAlert® Storage Code: WHITE

Lactic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A162-500**	169.70	6/764.50
1L	Glass Bottle	**A162-1**	281.00	6/1208.00

85.0 to 90.0 %; 2-Hydroxypropanoic Acid, $C_3H_6O_3$
$CH_3CH(OH)COOH$; [50-21-5, 97-73-4]; **Melting Point:** 18°C
Boiling Point: 122°C at 15 mmHg; **Density:** 1.2g/mL
DOT Class 8: Corrosive; **UN** 3265

ChemAlert® Storage Code: WHITE

Lanthanum Chloride Heptahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
50g	Poly Bottle	**L9-50**	116.89	6/511.28
250g	Poly Bottle	**L9-250**	545.41	6/2341.26

Lumps; $Cl_3La{\cdot}7H_2O$; **F.W.** 371.37; [10025-84-0]
Melting Point: 91°C; Suitable for atomic absorption analysis of alkaline earths.

ChemAlert® Storage Code: GRAY

Lanthanum Oxide — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**O3357-250**	340.50	6/1488.00

≥99 %; La_2O_3; **F.W.** 325.81; [1312-81-8]
Melting Point: 2,315.00°C; **Boiling Point:** 4,200°C
Density: 6.51g/mL

ChemAlert® Storage Code: GRAY

Lead Acetate Trihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**L33-250**	118.40	6/506.50
500g	Glass Bottle	**L33-500**	191.90	6/839.00

99 to 103 %
Lead Sugar, Lead (II) Acetate Trihydrate, $Pb(C_2H_3O_2)_2{\cdot}3H_2O$
$Pb(C_2H_3O_2)_2{\cdot}3H_2O$; **F.W.** 379.3; [6080-56-4]; **Melting Point:** 75°C
Density: 13.1; **DOT Class 6.1**: Poison; **UN** 1616

ChemAlert® Storage Code: GRAY

Lead Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**L62-100**	77.59	6/335.84
500g	Glass Bottle	**L62-500**	274.00	6/1184.00

Crystalline; ≥99 %; Lead (II) Nitrate, N_2O_6Pb; $Pb(NO_3)_2$
F.W. 331.21; [10099-74-8]; **Melting Point:** 470°C
Density: 4.53g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1469

ChemAlert® Storage Code: YELLOW

Light Green SF, Yellowish — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**O3382-25**	193.00	6/842.18

Acid Green 5, $C_{37}H_{34}N_2O_9S_3Na_2$; **F.W.** 792.85; [5141-20-8]
C.I. 42095; **Melting Point:** 288.00°C
Certified for use in histology and cytology.

ChemAlert® Storage Code: GRAY

Ligroine, Heptane 100% — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O3387-4**	297.00	4/768.00

Petroleum Ether, C_7H_{16}; **F.W.** 100.2; [142-82-5]
Melting Point: –91°C; **Flash Point:** –4°C/+24.8°F
Boiling Point: 98°C; **Density:** 3.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1206

SOLVENT

ChemAlert® Storage Code: RED

Lithium Bromide — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**L117-500**	257.50	6/1116.00

Fine Powder; LiBr; **F.W.** 86.85; [7550-35-8]
Melting Point: 547°C; **Boiling Point:** 1265°C
Density: 3.46g/mL

ChemAlert® Storage Code: GRAY

Lithium Carbonate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**L119-500**	287.50	6/1253.00

Powder; ≥99 %; Carbonic Acid Lithium Salt, Li_2CO_3
F.W. 73.89; [554-13-2]; **Melting Point:** 618°C
Boiling Point: 1310°C
Density: 2.1g/mL

ChemAlert® Storage Code: GRAY

Lithium Chloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**L121-100**	111.10	6/479.50
500g	Poly Bottle	**L121-500**	256.98	6/1074.81

≥98.5 %; LiCl; **F.W.** 42.39; [7447-41-8]
Melting Point: 605°C
Boiling Point: 1382°C; **Density:** 2.06g/mL

ChemAlert® Storage Code: GRAY

Lithium Chloride — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**L120-500**	229.00	6/1025.00

LiCl; **F.W.** 42.39; [7447-41-8]; **Melting Point:** 605°C
Boiling Point: 1382°C; **Density:** 2.06g/mL

ChemAlert® Storage Code: GRAY

Fisher Scientific

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Prices subject to change.

Lithium chloride — For analysis

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC19988-5000**	81.60	----
2kg	Plastic Bottle	**AC19988-0020**	191.60	----

99%; ClLi; LiCl; **F.W.** 42.38; [7447-41-8]; **Melting Point:** 605.0°C
Boiling Point: 1382.0°C; **Density:** 2.0600g/mL

Lithium Hydroxide Monohydrate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**L127-500**	158.50	6/682.00

Crystalline; $LiOH{\cdot}H_2O$; **F.W.** 41.96; [1310-66-3]
Melting Point: 462°C; **Boiling Point:** 920°C
Density: 1.51g/mL
DOT Class 8: Corrosive; **UN** 2680

ChemAlert® Storage Code: WHITE

Lithium hydroxide — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC37918-0025**	845.70	----

98%; LiOH; **F.W.** 23.95; [1310-65-2]
Melting Point: 462.0°C
Density: 1.4300g/mL; **UN** 2680

Lithium Nitrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**L132-500**	268.17	6/1117.79

Powder; $LiNO_3$; **F.W.** 68.94; [7790-69-4]
Melting Point: 251°C
Boiling Point: 600°C; **Density:** 2.4
DOT Class 5.1: Oxidizer
UN 2722

ChemAlert® Storage Code: YELLOW

Lithium Tetraborate Fusion Flux - Ultra Pure Grade

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**FFB-1000-03**	252.50	----

Crystalline; [Various]; **Non-Hazardous**For sample preparation
Manufactured for SPEX CertiPrep™
Recommended Storage: Ambient

Magnesium

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass	**M11-500**	254.64	6/1101.75

Turnings for Grignard Reaction; Mg
F.W. 24.3; [7439-95-4]
Melting Point: 650.00°C; **Boiling Point:** 1,107.22°C
Density: 1.74g/mL; **DOT Class 4.1**: Flammable Solid
UN 1869

ChemAlert® Storage Code: RED

Magnesium

Quantity	Packaging	Cat.No.	Each	Case of
25g	Plastic Bag	**AC41338-0250**	80.50	----

99+%; Mg; Mg; **F.W.** 24.30; [7439-95-4]
Melting Point: 651.0°C
Flash Point: 500°C; **Boiling Point:** 1107.0°C
UN 1869

Magnesium Acetate Tetrahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M13-500**	260.99	6/1138.12

Crystalline; 98 to 102 %
Acetic Acid Magnesium Salt, $C_4H_6O_4Mg{\cdot}4H_2O$
$Mg(CH_3CO_2)_2{\cdot}4H_2O$ **F.W.** 214.45; [16674-78-5]
Melting Point: 80°C; **Density:** 1.45g/mL

ChemAlert® Storage Code: GRAY

Magnesium Carbonate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M27-500**	223.50	4/729.50
2.5kg	Poly Pail	**M27-212**	682.00	----

Powder; $MgCO_3$; **F.W.** 84.31; [546-93-0]
Melting Point: 350°C
Density: 3.04g/mL

ChemAlert® Storage Code: GRAY

Magnesium Chloride Hexahydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M35-500**	157.08	6/688.75
2.5kg	Poly Bottle	**M35-212**	527.09	4/1522.93
12kg	Poly Pail	**M35-12**	1470.00	----

Crystalline; $MgCl_2{\cdot}6H_2O$; **F.W.** 203.3; [7791-18-6]
Melting Point: 117°C; **Density:** 1.56g/mL

ChemAlert® Storage Code: GRAY

Magnesium Chloride Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M33-500**	147.90	6/661.00
3kg	Poly Pail	**M33-3**	545.50	----

Crystalline; 99 to 102 %; $MgCl_2{\cdot}6H_2O$
F.W. 203.3; [7791-18-6]
Melting Point: 117°C; **Density:** 1.56g/mL

ChemAlert® Storage Code: GRAY

Magnesium chloride hexahydrate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC41341-5000**	61.40	----

99+%; $Cl_2Mg{\cdot}6H_2O$; $MgCl_2{\cdot}6H_2O$
F.W. 203.31; [7791-18-6]
Melting Point: 117.0°C

Magnesium Nitrate Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M46-500**	127.00	6/537.50

Crystalline; 98 to 102 %; $MgN_2O_6{\cdot}6H_2O$; $Mg(NO_3)_2{\cdot}6H_2O$
F.W. 256.41; [13446-18-9]; **Melting Point:** 89°C
Flash Point: 93.3°C/199.9°F; **Density:** 1.46g/mL
DOT Class 5.1: Oxidizer; **UN** 1474

ChemAlert® Storage Code: YELLOW

Magnesium Oxide — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M68-500**	219.00	4/562.50
3kg	Poly Pail	**M68-3**	319.50	----

Heavy Powder; MgO; **F.W.** 40.3; [1309-48-4]
Melting Point: 2800°C; **Boiling Point:** 3600°C; **Density:** 3.58g/mL

ChemAlert® Storage Code: GRAY

Magnesium Oxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**M51-100**	281.00	6/1213.00
500g	Poly Bottle	**M51-500**	1315.00	6/5060.00

Powder; ≥95.0 %; Magnesia, MgO; **F.W.** 40.3; [1309-48-4]
Melting Point: 2800°C; **Boiling Point:** 3600°C; **Density:** 3.58g/mL

ChemAlert® Storage Code: GRAY

Magnesium Perchlorate Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**M54-212**	1033.19	4/3419.20

Perchloric Acid Magnesium Salt, Desiccant, $Mg(ClO_4)_2$; $Mg(ClO_4)_2$
F.W. 223.21; [10034-81-8]; **Melting Point:** 251°C; **Density:** 2.6g/mL
DOT Class 5.1: Oxidizer; **UN** 1475

ChemAlert® Storage Code: YELLOW

Magnesium Sulfate Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M65-500**	146.00	6/640.50
3kg	Poly Bottle	**M65-3**	581.50	4/1698.00
100 lb.	Fiber Drum	**M65-100LB**	1743.00	----

Powder; Bitter Salt, $MgSO_4$; **F.W.** 120.37; [7487-88-9]
Density: 2.65g/mL

ChemAlert® Storage Code: GRAY

Magnesium Sulfate Heptahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M63-500**	173.80	6/728.50
3kg	Poly Bottle	**M63-3**	625.50	4/1834.00
50kg	Fiber Drum	**M63-50**	4500.00	----

Crystalline; 98 to 102 %; $MgSO_4{\cdot}7H_2O$; **F.W.** 246.47
[10034-99-8]; **Density:** 1.68g/mL

ChemAlert® Storage Code: GRAY

Magnesium Sulfate Heptahydrate Solution, 2.25% — APHA

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SM109-1**	77.10	6/344.00

$MgSO_4$; [7487-88-9, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; Suitable for biochemical oxygen demand.

ChemAlert® Storage Code: GRAY

Magnesium sulfate — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC41348-5000**	64.20	----
2.5kg	Plastic Bottle	**AC41348-0025**	202.00	----

Adsorbent; 97%; MgO_4S; $MgSO_4$; **F.W.** 120.37; [7487-88-9]
Melting Point: 1124.0°C;

Malachite Green Oxalate — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**M290-25**	115.60	6/504.50

Basic Green 4, $C_{14}H_{14}N_3O_3SNa$; **F.W.** 327.33; [547-58-0]
C.I. 42000; **Melting Point:** >300°C; **Density:** 1g/mL;
PoisonDOT Class 6.1; **UN** 2811; Suitable for use in histology, bacteriology (staining).

ChemAlert® Storage Code: BLUE

Maleic Acid — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O3417-500**	150.50	6/625.50

cis-2-Butenedioic Acid, $C_4H_4O_4$; $HO_2CCH{:}CHCO_2H$
F.W. 116.07; [110-16-7]; **Melting Point:** 134° to 138°C
Flash Point: 126°; **Density:** 1.59g/mL; **DOT Class 8**: Corrosive
UN 3266

ChemAlert® Storage Code: WHITE

Manganese Chloride Tetrahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**M87-100**	70.20	6/321.00
500g	Glass Bottle	**M87-500**	230.00	6/1009.00

Crystalline; 98 to 101 %; Manganese (II) Chloride, $MnCl_2{\cdot}4H_2O$
F.W. 197.91; [13446-34-9]; **Melting Point:** 58°C; **Density:** 2.01g/mL

ChemAlert® Storage Code: GRAY

Manganese(IV) oxide

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC22258-0025**	513.10	----

Oxidation reagent; 99%; Manganese dioxide, MnO_2; MnO_2
F.W. 86.94; [1313-13-9]; **Melting Point:** 535.0°C; **UN** 1479

Manganese (II) Sulfate Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SM20-500**	81.70	6/377.00
1L	Glass Bottle	**SM20-1**	148.10	6/639.00

[7785-87-7, 7732-18-5]; **Density:** 1.27g/mL
For determination of dissolved oxygen.

ChemAlert® Storage Code: GRAY

Manganese Sulfate Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M113-500**	305.50	6/1321.00
3kg	Poly Bottle	**M113-3**	1218.00	4/3560.00

Crystalline; 98.0 to 101.0 %; Manganous Sulfate, Manganese (II) Sulfate Monohydrate, $MnSO_4{\cdot}H_2O$
F.W. 169.02; [10034-96-5]; **Melting Point:** 700°C
Boiling Point: 850°C; **Density:** 3.25g/mL

ChemAlert® Storage Code: GRAY

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Marble Chips

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**M123-3**	119.70	4/348.87

Calcium Carbonate, $CaCO_3$; [1317-65-3]
Melting Point: 897.8°C; For Kipp generator.

ChemAlert® Storage Code GRAY

Mercuric acetate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC44727-0250**	42.40	----

Mercury(II) acetate, $C_4H_6HgO_4$; $(CH_3CO_2)_2Hg$
F.W. 318.67; [1600-27-7]; **Melting Point:** 179.0°C to 182.0°C

Mercuric Chloride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
50g	Poly Bottle	**M155I-50**	211.00	----

Crystalline or Powder; Mercury Bichloride, Mercury (II) Chloride, $HgCl_2$; **F.W.** 271.50; [7487-94-7]; **DOT Class 6.1**: Poison; **UN** 1624

ChemAlert® Storage Code BLUE

Mercuric Iodide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**M166I-100**	204.00	----

Red; Mercury (II) Biniodide, Red Mercury (II) Iodide, HgI_2
F.W. 454.40; [7774-29-0]; **DOT Class 6.1**: Poison; **UN** 1638

ChemAlert® Storage Code BLUE

Mercuric Nitrate Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**M168-100**	287.78	6/1208.46
500g	Glass Bottle	**M168-500**	672.00	6/2910.00

Crystalline; ≥98 %
Mercury (II) Nitrate Monohydrate, $Hg(NO_3)_2{\cdot}H_2O$; $Hg(NO_3)_2{\cdot}H_2O$
F.W. 342.62; [7783-34-8]; **Melting Point:** 77° to 79°C
Density: 4.3g/mL; **DOT Class 6.1**: Poison; **UN** 1625

ChemAlert® Storage Code YELLOW

Mercuric Oxide, Red — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**M174I-50**	168.62	----

Powder; ≥99 %; Red Precipitate, Mercury (II) Oxide, HgO
F.W. 216.59; [21908-53-2]; **C.I.** 77760; **DOT Class 6.1**: Poison
UN 1641

ChemAlert® Storage Code BLUE

Mercury — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1 lb.	Poly Bottle	**M141-1LB**	590.00	6/2560.00
6 lb.	Poly Bottle	**M141-6LB**	2126.90	4/6005.35

Quicksilver, Hg; **F.W.** 200.59; [7439-97-6]; **Melting Point:** –38.87°C
Boiling Point: 356.72°C; **Density:** 13.59g/mL
DOT Class 8: Corrosive; **UN** 2809

ChemAlert® Storage Code WHITE

Mercury — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
1 lb.	Poly Bottle	**M140-1LB**	656.21	6/2800.70
5 lb.	Poly Bottle	**M140-5LB**	2580.00	4/7390.00

Hg; **F.W.** 200.59; [7439-97-6]; **Melting Point:** –38.87°C
Boiling Point: 356.72°C; **Density:** 13.59g/mL
DOT Class 8: Corrosive; **UN** 2809

ChemAlert® Storage Code WHITE

Methanol — GC Resolv

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**A457-4**	279.70	4/935.33

Suitable for organic residue analysis; ≥99.9 %
Methyl Alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1230; Suitable for high-resolution gas chromatography and for organic residue analysis.
Packaged under nitrogen.

SOLVENT

ChemAlert® Storage Code RED

Methanol — Optima LC/MS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A456-1**	103.60	6/338.50
4L	Glass Bottle	**A456-4**	171.00	4/591.50

Formulated for UHPLC-UV; 99.9% min by GC; MeOH, Methyl Alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]; **Melting Point:** –98°C
Flash Point: 12°C/53.6°F; **Boiling Point:** : 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1230
---Ideal mobile phase for LC/MS and UHPLC-UV applications in pharmaceutical, biotechnology, clinical, environmental and food safety industries.
---Novel gradient elution test with Photodiode Array Detector screens for UV-absorbing contaminants at every wavelength in the 200 to 400nm range to afford smooth baselines and to reduce interferences.
---Evaluated for 17 metal impurities at ppb concentrations to minimize the formation of metal adducts during analysis and simplify spectral interpretation.

Methanol — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A454-1**	95.64	6/321.30
4L	Glass Bottle	**A454-4**	164.70	4/580.50
4L	Glass Bottle/ Safe-Cote	**A454SK-4**	187.70	4/356.00

99.9% min by GC; MeOH, Methyl Alcohol, CH_4O; CH_3OH
F.W. 32.04; [67-56-1]; **Melting Point:** –98°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1230; High purity and versatile solvent for HPLC.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions. HPLC mobile phase for analytical and preparative separations.

SOLVENT

ChemAlert® Storage Code RED

Methanol — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A452-1**	75.00	6/290.50
1L	Glass Bottle/ Safe-Cote	**A452SK-1**	95.70	6/376.60
4L	Glass Bottle	**A452-4**	139.05	4/484.71
4L	Glass Bottle/ Safe-Cote	**A452SK-4**	146.16	4/471.68
19L	NOWPAK I	**A452N1-19**	564.00	----

Mobile phase for HPLC applications.; 99.9% min by GC
MeOH, Methyl Alcohol, CH_4O; CH_3OH
F.W. 32.04; [67-56-1]; **Melting Point:** –98°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1230; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions.

SOLVENT — ChemAlert® Storage Code RED

Methanol — Residue Analysis Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**A453-500**	87.90	6/345.50
1L	Amber Glass	**A453-1**	136.74	6/534.83

Clear, Colorless Liquid; ≥99.9 %; Methyl Alcohol, Methyl Hydrate, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1230; Packaged under nitrogen.
Submicron filtered.

SOLVENT — ChemAlert® Storage Code RED

Methanol — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A413-500**	43.55	6/180.60
4L	Glass Bottle	**A413-4**	185.30	4/617.00
20L	Steel Pail	**A413-20**	376.50	----
200L	Steel Drum	**A413-200**	2360.00	----

≥99.8 %; Methyl Alcohol, CH_4O; CH_3OH
F.W. 32.04; [67-56-1]; **Melting Point:** –98°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1230

SOLVENT — ChemAlert® Storage Code RED

Methanol — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A408-1**	105.40	6/412.00
4L	Glass Bottle	**A408-4**	205.50	4/602.50
4L	Glass Bottle/ Safe-Cote	**A408SK-4**	226.50	4/662.00

Clear, Colorless Liquid; Also meets ACS specifications
≥99.8 %; Methyl Alcohol, Methyl Hydrate, CH_4O; CH_3OH
F.W. 32.04; [67-56-1]; **Melting Point:** –98°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1230; For use in the ultraviolet range.

SOLVENT — ChemAlert® Storage Code RED

Methanol — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A412-500**	29.67	6/129.82
1L	Glass Bottle	**A412-1**	59.30	6/355.80
4L	Glass Bottle	**A412-4**	137.80	4/471.50
4L	Poly Bottle	**A412P-4**	149.70	4/524.00
4L	Glass Bottle/ Safe-Cote	**A412SK-4**	136.54	4/444.11
20L	Steel Pail	**A412-20**	299.60	----
20L	Lined Steel Drum	**A434-20**	333.00	----
200L	Steel Drum	**A412-200**	1481.20	----

≥99.8 %; Methyl Alcohol, CH_4O; **F.W.** 32.04; [67-56-1]
Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1230

SOLVENT — ChemAlert® Storage Code RED

Methanol — Electronic Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**A947-4**	151.79	4/419.50

For use in electronics and circuit board manufacturing.
99.8% min by GC; Methyl Alcohol, MeOH, CH_4O; CH_3OH
F.W. 32.04; [67-56-1]; **Melting Point:** –98°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1230; Suitable for use in electronics and circuit board manufacturing.
Manufactured to ensure low levels of metal contamination.
Meet Semiconductor Equipment and Materials Institute (SEMI) requirements.

SOLVENT — ChemAlert® Storage Code RED

Methanol — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L (approx. 1 gal.)	Poly Bottle	**A433P-4**	99.20	4/307.50
4L (approx. 1 gal.)	Aluminum Can	**A433S-4**	123.70	4/328.69
1 gal.	Poly Bottle	**A433F-1GAL**	97.10	4/285.50
20L	Steel Pail	**A433S-20**	274.00	----
200L	Steel Drum	**A433S-200**	1293.00	----

Clear, Colorless Liquid; Methyl Alcohol, Methyl Hydrate, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid
UN 1230; Used in histology applications.

SOLVENT — ChemAlert® Storage Code RED

Methanol — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass, EcoSafPak	**A450-4**	288.22	4/689.22

Methyl Alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1230

SOLVENT — ChemAlert® Storage Code RED

Fisher Scientific
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Methanol — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A41-14**	134.40	4/421.50
20L	Steel Pail	**A411-20**	427.00	----

Clear, Colorless Liquid; Methyl Alcohol, Methyl Hydrate, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]

SOLVENT — ChemAlert® Storage Code RED

Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 1.11 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1230; General purpose laboratory.

Methanol — Low Water

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A935-4**	176.64	4/617.54

Clear, Colorless Liquid; Also meets ACS specifications ≥99.8 %; Methyl Alcohol, CH_4O; CH_3OH; **F.W.** 32.04 [67-56-1]; **Melting Point:** –98°C

SOLVENT — ChemAlert® Storage Code RED

Flash Point: 12°C/53.6°F; **Boiling Point:** 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1230; Low water concentration.

Methanol — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61009-0040**	117.30	4/469.20

For HPLC; 99.9%; Methyl alcohol, C H4 O; CHOH; **F.W.** 32.04
Melting Point: 98.0C; **Flash Point:** 12C; **Boiling Point:** 64.7C
Density: 0.7910g/mL; **n:** 1.3280 to 1.3300; **UN** 1230

Methanol — Extra Dry over Molecular Sieve

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC36439-1000**	26.70	----
1L	AcroSeal® Glass Bottle	**AC36439-0010**	51.70	----

99.8%; Methyl alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: – 98.0°C; **Flash Point:** 12°C; **Boiling Point:** 64.7°C
Density: 0.7910g/mL; **n:** 1.3280 to 1.3300; **UN** 1230

Methanol — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC61098-1000**	27.05	6/134.60

99.8%; Methyl alcohol, C H4 O; CHOH; **F.W.** 32.04
Melting Point: 98.0C; **Flash Point:** 12C; **Boiling Point:** 64.7C
Density: 0.7910g/mL; **n:** 1.3280 to 1.3300; **UN** 1230

Methanol — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass Bottle	**AC61040-0010**	51.90	258.50

99.8%; Methyl alcohol, C H4 O; CHOH; **F.W.** 32.04
Melting Point: 98.0C; **Flash Point:** 12C; **Boiling Point:** 64.7C
Density: 0.7910g/mL; **n:** 1.3280 to 1.3300; **UN** 1230

Methanol — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC17715-0010**	26.60	----
2.5L	Glass Bottle	**AC17715-0025**	48.30	193.20
25L	Plastic Jerry Can	**AC17715-0250**	227.90	----

99+%; Methyl alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: – 98.0°C; **Flash Point:** 12°C; **Boiling Point:** 64.7°C
Density: 0.7910g/mL; **n:** 1.3280 to 1.3300; **UN** 1230

Methanol — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle, EcoSafPak	**AC42395-0010**	30.50	----
4L	EcoSafPak	**AC42395-0040**	91.80	305.00
20L	Fiber Board Box	**AC42395-0200**	230.00	----

99.8+%; Methyl alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: – 98.0°C; **Flash Point:** 12°C; **Boiling Point:** 64.7°C
Density: 0.7910g/mL; **n:** 1.3280 to 1.3300; **UN** 1230

Methanol-d — For NMR

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC29913-1000**	83.90	----

For NMR; CH_3DO; CH_3OD; **F.W.** 33.05; [1455-13-6]; **Melting Point:** – 98.0°C
Flash Point: 12°C; **Boiling Point:** 65.4°C; **Density:** 0.8100g/mL; **UN** 1230

Methyl sulfoxide-d6 — For NMR

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC32129-0100**	29.60	----
50g	Glass Bottle	**AC32129-0500**	133.90	----

For NMR; Dimethyl-d6 sulfoxide, C_2D_6OS; **F.W.** 84.18; [2206-27-1]
Melting Point: 20.2°C; **Flash Point:** 88°C; **Boiling Point:** 190.0°C
Density: 1.1900g/mL

Methyl sulfoxide-d6 — For NMR

Quantity	Packaging	Cat.No.	Each	Case of
7.5mL	Ampule	**AC35254-0075**	38.00	----

For NMR; Dimethyl-d6 sulfoxide, C_2D_6OS; **F.W.** 84.18; [2206-27-1]
Melting Point: 20.2°C; **Flash Point:** 88°C; **Boiling Point:** 190.0°C
Density: 1.1900g/mL

Methyl Cellulose — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**M352-500**	279.00	4/772.00

Powder; Cellulose Methyl Ether, [9004-67-5]
4000 centipoise

ChemAlert® Storage Code GRAY

Methyl Ethyl Ketone — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**M209-500**	77.50	6/333.50
1L	Glass Bottle	**M209-1**	147.60	6/612.00
4L	Glass Bottle	**M209-4**	265.50	4/737.50
4L	Aluminum Can	**M209S-4**	302.50	4/889.50
20L	Steel Pail	**M209-20**	709.50	----
200L	Steel Drum	**M209-200**	3719.28	----

≥99 %; Ethyl Methyl Ketone, 2-Butanone, C_4H_8O
F.W. 72.11; [78-93-3]; **Melting Point:** –87°C
Flash Point: –7°C/+19.4°F; **Boiling Point:** 80°C
Density: 2.41 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1193

SOLVENT — ChemAlert® Storage Code RED

Methyl Ethyl Ketone — Technical Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**M208-1**	104.10	6/449.50
4L	Glass Bottle	**M208-4**	268.00	4/749.00
20L	Steel Pail	**M208-20**	684.00	----

2-Butanone, Ethyl Methyl Ketone, C_4H_8O; $CH_3COC_2H_5$
F.W. 72.11; [78-93-3]; **Melting Point:** –87°C
Flash Point: –7°C/+19.4°F; **Boiling Point:** 80°C
Density: 2.41 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1193

SOLVENT — ChemAlert® Storage Code RED

Methyl iso-Butyl Ketone — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**M213-1**	202.00	6/842.48
4L	Glass Bottle	**M213-4**	368.80	4/1475.20
20L	Steel Pail	**M213-20**	840.00	----
200L	Steel Drum	**M213-200**	6800.00	----

≥98.5 %; Hexone, Isobutyl Methyl Ketone, Isopropylacetone, 4-Methyl-2-Pentanone, $C_6H_{12}O$
F.W. 100.16; [108-10-1]; **Melting Point:** –84°C
Flash Point: 14°C/57.2°F; **Boiling Point:** 117°C; **Density:** 3.45 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1245

SOLVENT — ChemAlert® Storage Code RED

Methyl Orange — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**M216-25**	53.90	6/249.00
500g	Poly Bottle	**M216-500**	464.00	6/1940.00

Sodium p-Dimethylaminoazobenzenesulfonate, Helianthin, $C_{14}H_{14}N_3O_3SNa$; 4-$NaOSO_2C_6H_4N{:}NC_6H_4$-4-$N(CH_3)_2$; **F.W.** 327.33 [547-58-0]; **C.I.** 13025; **Melting Point:** >300°C; **Density:** 1g/mL
DOT Class 6.1: Poison; **UN** 3143

ChemAlert® Storage Code BLUE

Methyl Orange Solution, 0.1% (w/v) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SM54-500**	53.70	6/236.50

Acid Orange 52, Benzenesulfonic Acid Sodium Salt, [547-58-0, 6381-92-6, 7732-18-5]; **C.I.** 13025; **Density:** 1g/mL

ChemAlert® Storage Code GRAY

Methyl Red, Sodium Salt — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**M301-10**	209.65	6/911.55

Acid Red 2, Sodium Salt, $C_{15}H_{14}N_3O_2Na$
4-$(CH_3)_2NC_6H_4$-N:N-2-$(CO_2Na)C_6H_4$; **F.W.** 291.28; [845-10-3]
Melting Point: 180°C

ChemAlert® Storage Code GRAY

Methyl sulfoxide — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61097-1000**	55.90	6/335.40

99.7%; Dimethyl sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$; **F.W.** 78.13; [67-68-5]
Melting Point: 18.4°C; **Flash Point:** 87°C/188.6°F; **Boiling Point:** 189.0°C
Density: 2.7 (Air = 1.0); **n:** 1.4770 to 1.4800

Methyl Yellow — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC15140-5000**	709.80	----

Indicator; 4-Dimethylaminoazobenzene, N,N-Dimethyl-4-phenylazoaniline, Solvent Yellow 2, $C_{14}H_{15}N_3$; (CH3)2NC6H4N=NC6H5; **F.W.** 225.29; [60-11-7]
Melting Point: 111.0 to 117.0°C

Methyl Green, zinc chloride salt — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41438-1000**	354.00	----

C.I. 42590, Ethyl Green, zinc chloride salt, $C_{27}H_{35}BrClN_3{\cdot}xZnCl_2$
F.W. 653.23; [7114-03-6]; **Melting Point:** 233.0°C; **UN** 3147

Methylene Blue — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**M291-25**	101.20	6/444.50
100g	Glass Bottle	**M291-100**	273.50	6/1170.00

Basic Blue 9, $C_{16}H_{18}ClN_3S{\cdot}3H_2O$; **F.W.** 373.90; [7220-79-3]
C.I. 52015; **Melting Point:** 190°C; **Density:** 13 (Air = 1.0); For use in histology, bacteriology (staining), compounding of blood stains.

ChemAlert® Storage Code GRAY

Methylene Blue Trihydrate — USP

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**M235-100**	199.40	6/859.50

Crystalline; Basic Blue 9 Trihydrate, $C_{16}H_{18}ClN_3S{\cdot}3H_2O$
F.W. 373.90; [7220-79-3]; **Melting Point:** 190°C
Density: 13 (Air = 1.0)

ChemAlert® Storage Code GRAY

Methylene Chloride — GC Resolv

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**D154-4**	232.08	4/801.00

High purity solvent for sample prep prior to trace analysis by GC and/or GC/MS.; 99.9% min by GC
Dichloromethane, DCM, CH_2Cl_2; **F.W.** 84.93; [75-09-2]
Melting Point: –97°C; **Boiling Point:** 40°C
Density: 2.93 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1593; High purity solvent for GC, GC/MS, pesticide residue analysis, and trace analysis.
Solvent is concentrated 500-fold and evaluated for ECD-responsive substances at ppt levels.
Solvent is concentrated 500-fold and evaluated for FID-responsive substances at ppb levels.

SOLVENT — ChemAlert® Storage Code BLUE

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Methylene Chloride — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D151-1**	120.00	6/412.03
4L	Glass Bottle	**D151-4**	232.08	4/801.00

SOLVENT — ChemAlert® Storage Code BLUE

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; 99.9% min by GC
Dichloromethane, DCM, CH_2Cl_2; **F.W.** 84.93; [75-09-2]
Melting Point: –97°C; **Boiling Point:** 40°C; **Density:** 2.93 (Air = 1.0)
DOT Class 6.1: Poison; **UN** 1593; High purity and versatile solvent for HPLC, GC, GC/MS and pesticide residue analysis.
High UV transmittance and low evaporation residue.
Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.

Methylene Chloride — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D143-1**	84.31	6/328.32
1L	Glass Bottle/ Safe-Cote	**D143SK-1**	273.79	6/486.00
4L	Glass Bottle	**D143-4**	196.49	4/679.19
4L	Glass Bottle/ Safe-Cote	**D143SK-4**	194.28	4/548.37

SOLVENT — ChemAlert® Storage Code BLUE

Stabilized; Mobile phase for HPLC applications.
99.9% min by GC; Dichloromethane, DCM, CH_2Cl_2
F.W. 84.93; [75-09-2]; **Melting Point:** –97°C
Boiling Point: 40°C; **Density:** 2.93 (Air = 1.0); **DOT Class 6.1**: Poison
UN 1593; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions.

Methylene Chloride — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D138-1**	93.63	6/333.83
4L	Glass Bottle	**D138-4**	190.90	4/455.00
4L	Glass Bottle/ Safe-Cote	**D138SK-4**	223.50	4/550.00

SOLVENT — ChemAlert® Storage Code BLUE

Mobile phase for HPLC applications.; 99.9% min by GC
Dichloromethane, DCM, CH_2Cl_2; **F.W.** 84.93; [75-09-2]
Melting Point: –97°C; **Boiling Point:** 40°C
Density: 2.93 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1593; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a sub-micron filter to remove particulates.

Methylene Chloride — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**D150-1**	103.30	6/358.00
1L	Amber Glass/ Safe-Cote	**D150SK-1**	152.70	6/737.00
4L	Amber Glass	**D150-4**	193.80	4/608.00
4L	Amber Glass/ Safe-Cote	**D150SK-4**	209.50	4/521.00

SOLVENT — ChemAlert® Storage Code BLUE

Not Stabilized; Mobile phase for HPLC applications.
99.9% min by GC; Dichloromethane, DCM, CH_2Cl_2
F.W. 84.93; [75-09-2]; **Melting Point:** –97°C
Boiling Point: 40°C; **Density:** 2.93 (Air = 1.0)
DOT Class 6.1: Poison; **UN** 1593; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Also suitable for sample prep prior to GC/MS analysis.

Methylene Chloride — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D35-1**	185.10	6/767.00
4L	Glass Bottle	**D35-4**	391.00	4/1123.00

SOLVENT — ChemAlert® Storage Code BLUE

Stabilized; Also meets ACS specifications; ≥99.5 %
Dichloromethane, DCM, CH_2Cl_2; **F.W.** 84.93; [75-09-2]
Melting Point: –97°C; **Boiling Point:** 40°C
Density: 2.93 (Air = 1.0); **DOT Class 6.1**: Poison
UN 1593; Suitable for use in the ultraviolet and infrared ranges.

Methylene Chloride — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**D142-4**	205.00	4/645.00

SOLVENT — ChemAlert® Storage Code BLUE

Dichloromethane, DCM, CH_2Cl_2; **F.W.** 84.93; [75-09-2]
Melting Point: –97°C; **Boiling Point:** 40°C
Density: 2.93 (Air = 1.0); **DOT Class 6.1**: Poison
UN 1593; For pesticide residue analysis by GC-ECD.
Suitable for sample prep prior to GC-ECD for environmental applications.

Methylene Chloride — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D37-500**	71.68	6/253.63
1L	Glass Bottle	**D37-1**	146.37	6/329.07
4L	Glass Bottle	**D37-4**	191.50	4/544.00
4L	Glass Bottle/ Safe-Cote	**D37SK-4**	336.50	4/579.00
20L	Steel Pail	**D37-20**	669.00	----
200L	Steel Drum	**D37-200**	4250.00	----

SOLVENT — ChemAlert® Storage Code BLUE

Stabilized; ≥99.5 %; Dichloromethane, DCM, CH_2Cl_2
F.W. 84.93; [75-09-2]; **Melting Point:** –97°C
Boiling Point: 40°C; **Density:** 2.93 (Air = 1.0)
DOT Class 6.1: Poison; **UN** 1593; Stabilized with preservative. Meet or exceeds the latest ACS specifications. Actual lot of analysis on label.

Methyl Red — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC26444-5000**	288.00	----

Indicator; Acid Red 2, 2-[4-(Dimethylamino)phenylazo]benzoic acid, C.I. 13020, $C_{15}H_{15}N_3O_2$; $(CH_3)_2NC_6H_4N{=}NC_6H_4CO_2H$; **F.W.** 269.30; [493-52-7]
Melting Point: 178.0°C to 182.0°C

Methyl sulfoxide — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Plastic Bottle, EcoSafPak	**AC41488-5000**	98.40	590.40

99.9+%; Dimethyl sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$; **F.W.** 78.13; [67-68-5]
Melting Point: 18.4°C; **Flash Point:** 87°C; **Boiling Point:** 189.0°C
Density: 1.1000g/mL; **n:** 1.4770 to 1.4800

MOPS — For biochemistry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC17263-1000**	74.80	----
500g	Plastic Bottle	**AC17263-5000**	290.10	----

Biological buffer; 99%; 3-(N-Morpholino)propanesulfonic acid, $C_7H_{15}NO_4S$
F.W. 209.26; [1132-61-2]; **Melting Point:** 277.0°C to 282.0°C
Flash Point: 116°C

Murexide

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**M274-5**	149.50	6/677.50

Powder; Ammonium Purpurate Acid, $C_8H_8N_6O_6$
F.W. 284.20; [3051-09-0]; **Melting Point:** 355.00°C

ChemAlert® Storage Code: GRAY

Murexide Indicator

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass	**5220-100**	62.00	----
500g	Glass	**5220-500**	205.00	----

APHA/EPA for Calcium
0.2% (w/w) dry mixture in Sodium Chloride

p-Naphtholbenzein Indicator Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SN1-500**	277.39	6/1228.84

[145-50-6, 108-88-3, 67-63-0, 7732-18-5]; **Flash Point:** 2°
Density: 0.83g/mL; **DOT Class 3**: Flammable Liquid; **UN** 1993

ChemAlert® Storage Code: RED

Nessler's Reagent Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SN16I-500**	181.50	----

Active; Mercuric and potassium iodide solution, [7681-11-0]
DOT Class 8: Corrosive; **UN** 2922; For determination of ammonia, urea nitrogen and nonprotein nitrogen.

ChemAlert® Storage Code: WHITE

Nickel Chloride Hexahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**N54-250**	201.50	6/879.69
500g	Glass Bottle	**N54-500**	355.77	6/1330.26
3kg	Glass Bottle	**N54-3**	1337.00	4/3910.00

Crystalline; ≥97 %; Nickel (II) Chloride Hexahydrate, $NiCl_2{\cdot}6H_2O$
F.W. 237.69; [7791-20-0]; **Boiling Point:** 972.78°C
Density: 3.55g/mL; **DOT Class 6.1**: Poison; **UN** 3288

ChemAlert® Storage Code: BLUE

Nickel Chloride Hexahydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**N53-500**	144.80	6/626.50

Crystalline; Nickel (II) Chloride Hexahydrate, $NiCl_2{\cdot}6H_2O$
F.W. 237.69; [7791-20-0]; **Boiling Point:** 972.78°C
Density: 3.55g/mL; **DOT Class 6.1**: Poison; **UN** 3288

ChemAlert® Storage Code: BLUE

Nickel Nitrate Hexahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**N62-500**	289.00	6/1192.00

Crystalline; Nickel (II) Nitrate Hexahydrate, $Ni(NO_3)_2{\cdot}6H_2O$
$Ni(NO_3)_2{\cdot}6H_2O$; **F.W.** 290.81; [13478-00-7]; **Melting Point:** 56.7°C
Boiling Point: 137°C; **Density:** 2.05g/mL; **DOT Class 5.1**: Oxidizer
UN 2725

ChemAlert® Storage Code: YELLOW

Nickel Sulfate Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**N73-100**	120.84	6/504.71
500g	Poly Bottle	**N73-500**	384.50	6/1646.00

Crystalline; Nickel (II) Sulfate, $NiSO_4{\cdot}6H_2O$; **F.W.** 262.85
[10101-97-0]; **Melting Point:** 53°C; **Boiling Point:** 103°C
Density: 2.07g/mL

ChemAlert® Storage Code: BLUE

Ninhydrin — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**T349-10**	160.60	6/668.00

Crystalline; 1,2,3-Triketohydrindene Hydrate, 1H-Indene-1,2,3, trione Monohydrate, $C_9H_6O_4$; C_6H_4-1,2-$(CO)_2CO{\cdot}H_2O$
F.W. 178.15; [485-47-2]; **Density:** 0.86g/mL

ChemAlert® Storage Code: BLUE

Ninhydrin

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC16587-1000**	210.20	----

1,2,3-Indantrione, 1,2,3-Triketohydrindene, 2,2-Dihydroxy-1H-indene-1,3(2H)-dione, 1H-Indene-1,2,3-trione, $C_9H_6O_4$
F.W. 178.14; [485-47-2]; **Melting Point:** 250.0°C

Nitric Acid — TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	HDPE Bottle	**A509-P500**	92.37	----
2.5L	HDPE Bottle	**A509-P212**	167.20	----

HNO_3; **F.W.** 63.01; [7697-37-2]; **DOT Class 8**: Corrosive
UN 2031; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS

ACID

ChemAlert® Storage Code: YELLOW

Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

Nitric Acid — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	FEP Bottle	**A467-250**	338.50	----
500mL	FEP Bottle	**A467-500**	528.50	----
1L	FEP Bottle	**A467-1**	932.50	----
2L	FEP Bottle	**A467-2**	1502.00	----

HNO_3; **F.W.** 63.01; [7697-37-2]; **DOT Class 8**: Corrosive
UN 2031; Ideal for analysis by ICP-MS and high-resolution ICP-MS

ACID

ChemAlert® Storage Code: YELLOW

Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

Nitric Acid — NF

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**A483-212**	165.77	----

69 to 70 %; HNO_3; **F.W.** 63.01; [7697-37-2, 7732-18-5]
Melting Point: –42°C; **Boiling Point:** 86°C
Density: 1.4g/mL; **DOT Class 8**: Corrosive; **UN** 2031

ACID

ChemAlert® Storage Code: YELLOW

Fisher Scientific

*Trademark. See trademarks at www.fishersci.com

Prices subject to change.

Nitric Acid — Certified ACS Plus

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass	**A200-500**	98.30	6/336.00
500mL	Glass/Safe-Cote	**A200S-500**	118.70	6/403.50
2.5L	Glass	**A200-212**	135.70	----
2.5L	Glass	**A200C-212**	438.00	----
2.5L	Glass/Safe-Cote	**A200S-212**	632.50	----
2.5L	Glass/Safe-Cote Individual	**A200S-I212**	198.60	----
6.5 gal.	Glass Carboy	**A200-612GAL**	566.00	----

70%; HNO_3; **F.W.** 63.01; [7697-37-2, 7732-18-5]
Melting Point: –42°C; **Boiling Point:** 86°C
Density: 1.4g/mL; **DOT Class 8**: Corrosive; **UN** 2031
Nitric Acid material may darken during storage due to photochemical reaction.

ACID — ChemAlert® Storage Code YELLOW

Nitric Acid — Technical

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass	**A198C-212**	315.00	----

HNO_3; **F.W.** 63.01; [7697-37-2]
DOT Class 8: Corrosive; **UN** 2031

ACID — ChemAlert® Storage Code YELLOW

Nitric Acid Concentrate, 1N — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**SA95**	62.86	6/279.20

Concentrate; [7697-37-2, 7732-18-5]
Melting Point: >0°C; **DOT Class 8**: Corrosive
UN 2031; A volumetric standard solution, titrated at 25°C to pH 8.2 (phenolphthalein endpoint) against sodium hydroxide, which has been standardized against NIST* potassium acid phthalate. Each bottle contains exact amount of 1N concentrate required to make 1 liter of N/10 (0.1N) solution.

ACID — ChemAlert® Storage Code WHITE

Nitric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass	**A202-500**	283.00	----
2.5L	Glass	**A202-212**	577.50	----

Fuming; ≥90.0 %; HNO_3andNO_2; **F.W.** 63.01
[7697-37-2, 7732-18-5, 10102-44-0]
Melting Point: –42°C; **Boiling Point:** 122°C
Density: 1.5g/mL; **DOT Class 8**: Corrosive; **UN** 2032

ACID — ChemAlert® Storage Code YELLOW

Nitric Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass	**A206C-212**	884.71	----

Hydrogen Nitrate, HNO_3; **F.W.** 63.01; [7697-37-2]
DOT Class 8: Corrosive; **UN** 2031

ChemAlert® Storage Code YELLOW

Nitric Acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber glass safety coated	**5350-32**	94.50	----
2.50L	Glass safety coated	**5350-5PT**	116.90	----

Clear, colorless to pale yellow liquid; [7732-18-5, 7697-37-2]

Nitric Acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**5326-32**	77.10	----

Clear, colorless to pale yellow liquid; [7732-18-5, 7697-37-2]

Nitric Acid Solution, 0.1N (N/10) — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SA94-1**	112.80	6/514.00

HNO_3mixture; [7697-37-2, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; A volumetric standard solution, titrated at 25°C to pH 8.2 (phenolphthalein endpoint) against sodium hydroxide, which has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code GRAY

Oxalic Acid Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
250g	Poly Bottle	**A219-250**	136.00	6/612.50
500g	Poly Bottle	**A219-500**	254.00	6/1099.00
3kg	Poly Bottle	**A219-3**	1067.34	4/3031.48

Crystalline; 99.5 to 102.5 %; Ethanedioic Acid, $C_2H_2O_4{\cdot}2H_2O$
$HO_2CCO_2H{\cdot}2H_2O$; **F.W.** 126.07; [6153-56-6]
Melting Point: 98° to 102°C/208.4° to 215.6°F; **Density:** 4.62
DOT Class 8: Corrosive; **UN** 2923

ChemAlert® Storage Code WHITE

Oxalic Acid Dihydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A218-500**	175.00	6/722.50
3kg	Poly Bottle	**A218-3**	649.00	4/1861.00

Crystalline; $C_2H_2O_4{\cdot}2H_2O$; $HO_2CCO_2H{\cdot}2H_2O$
F.W. 126.07; [6153-56-6]; **Melting Point:** 98° to 102°C/208.4° to 215.6°F; **Density:** 4.62; **DOT Class 8**: Corrosive; **UN** 3261

ChemAlert® Storage Code WHITE

Palladium on activated carbon

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC19503-0100**	134.10	----
50g	Glass Bottle	**AC19503-0500**	327.60	----

Pd; **F.W.** 106.42; [7440-05-3, 7440-44-0]; **UN** 3178

Palladium(II) acetate

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC19518-0500**	1822.00	----

Palladium diacetate, $C_4H_6O_4Pd$; $(CH_3CO_2)_2Pd$
F.W. 224.51; [3375-31-3]; **Melting Point:** 205.0°C; **UN** 3261

Palladium(II) chloride — (trace metal basis)

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC36967-0250**	1616.30	----

For ultra trace analysis; 99.999%; Cl_2Pd; $PdCl_2$
F.W. 177.31; [7647-10-1]; **Melting Point:** 678.0°C to 680.0°C; **UN** 3290

Pararosaniline chloride — Pure

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41680-1000**	250.20	----

99%; Basic Red 9, monohydrochloride, Basic Fuchsin, C.I. 42500, $C_{19}H_{17}N_3{\cdot}HCl$; **F.W.** 323.83; [569-61-9]; **Melting Point:** 268.0°C to 270.0°C

n-Pentane — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC17007-0010**	56.00	224.00
2.5L	Glass Bottle	**AC17007-0025**	125.50	502.00

99+%; C_5H_{12}; $CH_3(CH_2)_3CH_3$; **F.W.** 72.15; [109-66-0]; **Melting Point:** – 130.0°C
Flash Point: –49°C; **Boiling Point:** 36.0°C; **Density:** 0.6260g/mL; **n:** 1.3580
UN 1265

Pentane — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**P399-1**	112.50	6/441.14
1L	Amber Glass/ Safe-Cote	**P399SK-1**	117.99	6/458.64
4L	Amber Glass	**P399-4**	243.00	4/637.00
4L	Amber Glass/ Safe-Cote	**P399SK-4**	285.00	4/749.00

Mobile phase for HPLC applications.; 99% min by GC
C_5H_{12}; $CH_3(CH_2)_3CH_3$; **F.W.** 72.15; [109-66-0]
Melting Point: –130°C; **Flash Point:** –49°C/–56.2°F
Boiling Point: 36°C; **Density:** 2.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1265; Submicron filtered.

SOLVENT — ChemAlert® Storage Code RED

Pentane — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**P393-1**	263.50	6/1092.00

C_5H_{12}; $CH_3(CH_2)_3CH_3$; **F.W.** 72.15
[109-66-0, 287-92-3, 78-78-4]; **Melting Point:** –129.7°C
Flash Point: –49°C/–56.2°F; **Boiling Point:** 35°C
Density: 2.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1265; Suitable for use in infrared spectroscopy.

SOLVENT — ChemAlert® Storage Code RED

Pentane — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**P400-4**	303.50	4/796.00

C_5H_{12}; $CH_3(CH_2)_3CH_3$; **F.W.** 72.15; [109-66-0]
Melting Point: –130°C; **Flash Point:** –49°C/–56.2°F
Boiling Point: 36°C; **Density:** 2.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1265

SOLVENT — ChemAlert® Storage Code RED

Pentane — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O4062-4**	298.50	4/825.00
20L	Steel Pail	**O4062-20**	1079.00	----

≥98 %; C_5H_{12}; $CH_3(CH_2)_3CH_3$; **F.W.** 72.15; [109-66-0]
Melting Point: –130°C; **Flash Point:** –49°C/–56.2°F
Boiling Point: 36°C; **Density:** 2.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1265

SOLVENT — ChemAlert® Storage Code RED

Perchloric Acid — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	FEP Bottle	**A469-250**	561.00	----
500mL	FEP Bottle	**A469-500**	969.00	----
1L	FEP Bottle	**A469-1**	1777.00	----

$HClO_4$; **F.W.** 100.46; [7601-90-3]; **DOT Class 5.1**: Oxidizer
UN 1873; Ideal for analysis by ICP-MS and high-resolution ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code YELLOW

Perchloric Acid — TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	HDPE Bottle	**A511-P500**	412.34	----
2.5L	HDPE Bottle	**A511-P212**	1005.55	----

$HClO_4$; **F.W.** 100.46; [7601-90-3]; **DOT Class 5.1**: Oxidizer
UN 1873; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code YELLOW

Perchloric Acid, 70% — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1 lb.	Safe-Cote	**A2296-1LB**	236.00	6/788.50
8 lb.	Glass	**A229-8LB**	582.00	4/1306.00
8 lb.	Glass/Safe-Cote	**A229S-8LB**	1500.00	----

69.0 to 72.0 w/w %; $HClO_4$; **F.W.** 100.46
[7601-90-3, 7732-18-5]; **Melting Point:** –18°C
Flash Point: 113°C/235.4°F; **Boiling Point:** 203°C
Density: 3.46 (Air = 1.0); **DOT Class 5.1**: Oxidizer; **UN** 1873

ACID — ChemAlert® Storage Code YELLOW

Perchloric Acid, 60% — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1 lb.	Glass	**A2286-1LB**	168.60	6/563.50
7 lb.	Glass	**A228-7LB**	649.50	4/1443.00
7 lb.	Glass/Safe-Cote	**A228S-7LB**	1159.00	----

60.0 to 62.0 w/w %; $HClO_4$; **F.W.** 100.46
[7601-90-3, 7732-18-5]; **Melting Point:** –18°C
Flash Point: 113°C/235.4°F; **Boiling Point:** 203°C
Density: 3.46 (Air = 1.0); **DOT Class 5.1**: Oxidizer; **UN** 1873

ACID — ChemAlert® Storage Code YELLOW

Perchloric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SP339-500**	172.20	6/763.00

$ClHO_4$; [64-19-7, 7601-90-3]; **Flash Point:** 40°C/104°F
Density: 1.06g/mL; **DOT Class 8**: Corrosive; **UN** 2920
For nonaqueous titrations.
In glacial acetic acid.
Reference Standard: NIST* potassium acid phthalate

ACID — ChemAlert® Storage Code RED

*Trademark. See trademarks at www.fishersci.com
Prices subject to change.

Periodic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**A223-25**	123.70	6/550.50
100g	Glass Bottle	**A223-100**	316.50	6/1298.00

≥99 %; Iodic Acid, $HIOH_4 \cdot 2H_2O$; **F.W.** 227.96
[10450-60-9]; **Density:** 1.4g/mL
DOT Class 5.1: Oxidizer; **UN** 3085

ACID — ChemAlert® Storage Code YELLOW

Petroleum Ether — Optima

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E120-4**	194.80	4/489.50
4L	Glass Bottle/ Safe-Cote	**E120SK-4**	205.50	4/505.00

High purity extraction solvent for GC applications.
Ligroine, B.P. 35° to 60°C, Benzine, [8032-32-4]
Flash Point: –17.8°C/0°F; **Boiling Point:** 38°C
DOT Class 3: Flammable Liquid; **UN** 1268; High purity solvent for pesticide residue analysis.
Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.
This product also meets ACS specifications.

SOLVENT — ChemAlert® Storage Code RED

Petroleum Ether — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**P480-4**	180.00	4/466.50

Also meets ACS specifications; Ligroine, B.P. 35° to 60°C, Benzine, [8032-32-4]
Flash Point: –17.8°C/0°F; **Boiling Point:** 38°C
DOT Class 3: Flammable Liquid; **UN** 1268

SOLVENT — ChemAlert® Storage Code RED

Petroleum Ether — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E139-500**	70.78	6/306.77
1L	Glass Bottle	**E139-1**	114.08	6/482.70
4L	Glass Bottle	**E139-4**	173.93	4/546.36
4L	Aluminum Can	**E139S-4**	213.29	4/624.36
4L	Glass/Safe-Cote	**E139SK-4**	225.08	4/651.86
20L	Steel Pail	**E139-20**	424.00	----
200L	Steel Drum	**E139-200**	3280.00	----

Ligroine, B.P. 35° to 60°C, Benzine, [8032-32-4]
Melting Point: –40°C; **Flash Point:** –17.8°C/0°F
Boiling Point: 38°C; **Density:** 0.66g/mL
DOT Class 3: Flammable Liquid; **UN** 1268; Also meets specifications of the American Oil Chemists Society and the National Cottonseed Producers Association.

SOLVENT — ChemAlert® Storage Code RED

Petroleum ether — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC42299-5000**	51.10	254.50
4L	EcoSafPak	**AC42299-0040**	123.09	408.40

[64742-49-0]; **Flash Point:** –30°C; **Boiling Point:** 35.0°C to 60.0°C
Density: 0.6480g/mL; **n:** 1.3660 to 1.3700; **UN** 1268

Phenol Red, Free Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**P74-10**	259.50	6/1128.00

Phenosulfohephthalein, 4,4'-(3H-2,1-Benzoxathiol-3-yildene) bisphenol S,S-Dioxide, $C_{19}H_{14}O_5S$; $C_6H_4SO_2OC(C_6H_4\text{-}4\text{-}OH)_2$
F.W. 354.39; [143-74-8]; **Melting Point:** >300°C; pH indicator.

ChemAlert® Storage Code GRAY

Phenol Red, Sodium Salt — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**P391-10**	258.50	6/1128.00

Phenolsulfonephthalein Sodium Salt, $C_{19}H_{13}O_5S \cdot Na$
$C_6H_4SO_2OC(C_6H_4\text{-}4\text{-}OH)(C_6H_4\text{-}4\text{-}ONa)$; **F.W.** 376.37; [34487-61-1]
Melting Point: 285°C(decom); pH indicator.

ChemAlert® Storage Code GRAY

Phenol Red, sodium salt — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC15144-1000**	229.90	----

Indicator; $C_{19}H_{13}NaO_5S$; **F.W.** 376.35; [34487-61-1]; **Melting Point:** 285.0°C

Phenol/Chloroform/Isoamyl alcohol (25:24:1), stabilized — For molecular biology

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC32711-5000**	221.30	----

[136112-00-0, 67-66-3, 123-51-3, 136112-00-0]; **Density:** 1.2800g/mL
UN 2927

Phenol/TRIS saturated sol. — For molecular biology

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC32712-5000**	151.60	----

[108-95-2, 77-86-1, 7732-18-5]; **UN** 2810

Phenolphthalein — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**P79-100**	107.30	6/476.00
500g	Poly Bottle	**P79-500**	378.50	6/1659.00

3,3-Bis(p-hydroxyphenyl)-1(3H)-isobenzofuranone, 3,3-Bis (p-hydroxyphenyl) Phthallide, $C_{20}H_{14}O_4$; $C_6H_4COOC(C_6H_4\text{-}4\text{-}OH)_2$
F.W. 318.33; [77-09-8]; **Melting Point:** 258° to 263°C/496.4° to 505.4°F; **Density:** 1.3g/mL

ChemAlert® Storage Code GRAY

Phenolphthalein Solution, Alcoholic 0.5%

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP50-1**	104.70	6/461.00

0.5%; [67-63-0, 77-09-8, 7732-18-5]; **Melting Point:** –89°C
Flash Point: 21.7°C/71.1°F; **Boiling Point:** 83°C; **Density:** 2.1
DOT Class 3: Flammable Liquid; **UN** 1219

ChemAlert® Storage Code RED

Phenolphthalein Solution, Alcoholic 1.0%

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SP62-500**	71.90	6/321.50
1L	Glass Bottle	**SP62-1**	118.70	6/508.00

[77-09-8, 67-63-0]; **Melting Point:** –89°C; **Flash Point:** 12°
Boiling Point: 83°C; **Density:** 0.79g/mL
DOT Class 3: Flammable Liquid; **UN** 1219; Volumetric indicator.

ChemAlert* Storage Code RED

Phenylarsine Oxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**SP65-1**	173.20	6/799.00

[637-03-6, 1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL

ChemAlert* Storage Code GRAY

Phenylarsine Oxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP68-1**	101.00	6/441.50
4L	Glass Bottle	**SP68-4**	313.00	4/935.50

[637-03-6, 1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL

ChemAlert* Storage Code GRAY

Phosphomolybdic Acid Hydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A237-100**	822.10	6/3589.67

Crystalline; Molybdophosphoric Acid Hydrate, $H_3Mo_{12}O_{40}P{\cdot}XH_2O$
F.W. 1825.25; [51429-74-4]; **Melting Point:** 78° to 90°C/172.4° to 194°F; **Density:** 3.15g/mL; **DOT Class 5.1**: Oxidizer; **UN** 3085
Recommended Storage: Refrigerate

ChemAlert* Storage Code YELLOW

Phosphomolybdic acid hydrate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41789-1000**	138.00	687.00
500g	Glass Bottle	**AC41789-5000**	592.20	----

Oxidation reagent; Molybdophosphoric acid, $H_3Mo_{12}O_{40}P{\cdot}xH_2O$
$H_3[P(Mo_3O_{10})_4]{\cdot}xH_2O$; **F.W.** 1825.25; [51429-74-4, 12026-57-2]; **UN** 3085

m-Phosphoric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A280-500**	716.50	6/2450.00
3kg	Glass Bottle	**A280-3**	3560.00	4/8060.00

Crystalline or Flakes; 33.5 to 36.5 %; Metaphosphoric Acid, Glacial Phosphoric Acid, HPO_3; [37267-86-0, 50813-16-6]; **Density:** 2.4g/mL; **DOT Class 8**: Corrosive
UN 1759; Mixture of meta-Phosphoric Acid and Sodium Metaphosphate.

ACID

ChemAlert* Storage Code WHITE

o-Phosphoric Acid — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A365-1**	236.86	6/985.66
4L	Glass Bottle	**A365-4**	469.50	4/1348.00

H_3O_4P; **F.W.** 98; [7664-38-2, 7732-18-5]
Melting Point: 21°C; **Boiling Point:** 158°C
Density: 1.69g/mL; **DOT Class 8**: Corrosive; **UN** 1805

ACID

ChemAlert* Storage Code WHITE

o-Phosphoric Acid — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A260-500**	175.00	6/728.62

Also meets ACS specifications; ≥85.0 %; H_3O_4P
F.W. 98; [7664-38-2, 7732-18-5]; **Melting Point:** 21°C
Boiling Point: 158°C; **Density:** 1.69g/mL
DOT Class 8: Corrosive; **UN** 1805

ACID

ChemAlert* Storage Code WHITE

o-Phosphoric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A242-500**	150.30	6/522.50
1L	Glass Bottle	**A242-1**	188.60	6/651.50
2.5L	Glass Bottle	**A242-212**	242.50	6/820.00
2.5L	Glass/Safe-Cote	**A242SK-212**	280.00	6/939.50
4L	Glass Bottle	**A242-4**	379.00	4/882.00

≥85.0 w/w %; Orthophosphoric Acid, H_3O_4P
F.W. 98; [7664-38-2, 7732-18-5]; **Melting Point:** 21°C
Boiling Point: 158°C; **Density:** 1.69g/mL
DOT Class 8: Corrosive; **UN** 1805

ACID

ChemAlert* Storage Code WHITE

Phosphoric acid — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC42404-5000**	68.70	412.20
2.5L	Glass Bottle	**AC42404-0025**	125.20	500.80

Orthophosphoric acid, H_3O_4P; H_3PO_4; **F.W.** 98.00; [7664-38-2, 7732-18-5]
Melting Point: 21.0°C; **Boiling Point:** 158.0°C; **Density:** 1.6800g/mL
UN 1805

Phosphorus Pentoxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A245-100**	92.50	6/421.50
500g	Glass Bottle	**A245-500**	180.00	6/742.00

≥99 %; Phosphoric Anhydride, P_2O_5; **F.W.** 141.94; [1314-56-3]
Melting Point: 340° to 360°C/644° to 680°F; **Boiling Point:** 360°C
Density: 4.9; **DOT Class 8**: Corrosive; **UN** 1807

ChemAlert* Storage Code WHITE

Phosphotungstic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**A248-25**	127.40	6/555.00
100g	Poly Bottle	**A248-100**	337.50	6/1460.00
500g	Poly Bottle	**A248-500**	1123.00	6/4910.00

Crystalline; Tungstophosphoric Acid, $H_3PO_4{\cdot}12WO_3{\cdot}24H_{20}$
[12501-23-4]; **Melting Point:** 89°C; **DOT Class 8**: Corrosive
UN 3260; Deliquescent
Recommended Storage: Refrigerate

ChemAlert* Storage Code WHITE

Picric Acid

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**5860-16**	58.10	----
1L	Poly Natural	**5860-32**	78.20	----

Clear, yellow liquid; [7732-18-5, 88-89-1]
Boiling Point: Approx. 100

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Platinum (IV) Chloride Solution

Quantity	Packaging	Cat.No.	Each	Case of
25mL	Glass Bottle	**SP119-25**	1257.00	6/5630.00

Platinic Chloride Solution, $H_2Cl_6Pt{\cdot}xH_2O$
[16941-12-1, 7647-01-0, 7732-18-5]; **Melting Point:** < 0°C
DOT Class 8: Corrosive; **UN** 3264

ChemAlert® Storage Code WHITE

Potassium Acetate — USP

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**P178-3**	427.57	4/1233.08

Crystalline; Acetic Acid, Potassium Salt, $C_2H_3KO_2$
CH_3COOK; **F.W.** 98.14; [127-08-2]; **Melting Point:** 292°C
Flash Point: 250°C/482°F; **Density:** 1.8g/mL

ChemAlert® Storage Code GRAY

Potassium Acetate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P171-500**	149.60	6/653.00
3kg	Poly Pail	**P171I-3**	650.00	----

Crystalline; ≥99 %; Acetic Acid Potassium Salt, $C_2H_3KO_2$
CH_3COOK; **F.W.** 98.14; [127-08-2]; **Melting Point:** 292°C
Flash Point: 250°C/482°F; **Density:** 1.8g/mL

ChemAlert® Storage Code GRAY

Potassium Bicarbonate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P235-500**	106.50	6/446.50
12kg	Poly Pail	**P235-12**	926.81	----

Powder; (Dried Basis)99.5to101.5%; Potassium Acid Carbonate,
Potassium Hydrogen Carbonate, $KHCO_3$; **F.W.** 100.12; [298-14-6]
Melting Point: 100°C; **Density:** 2.17g/mL

ChemAlert® Storage Code GRAY

Potassium Bicarbonate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P184-500**	96.40	6/437.50

Crystalline; 99.7 to 100.5 %; Potassium Acid Carbonate,
Potassium Hydrogen Carbonate, $KHCO_3$; **F.W.** 100.12; [298-14-6]
Melting Point: 100°C; **Density:** 2.17g/mL

ChemAlert® Storage Code GRAY

Potassium Biiodate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP340-1**	139.60	6/615.00

[13455-24-8, 64-02-8, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; Suitable for determination of dissolved oxygen.

ChemAlert® Storage Code GRAY

Potassium Bisulfate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P193-500**	182.20	6/798.50

Crystalline; Potassium Sulfate Acid, Potassium Hydrogen
Sulfate, $KHSO_4$; **F.W.** 136.17; [7646-93-7]
Melting Point: 195° to 197°C; **Density:** 2.24g/mL
DOT Class 8: Corrosive; **UN** 2509

ChemAlert® Storage Code WHITE

Potassium Bromide — Infrared

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**P227-25**	218.50	6/953.00

KBr; **F.W.** 119.00; [7758-02-3]; **Melting Point:** 730°C
Boiling Point: 1435°C; **Density:** 2.75g/mL

ChemAlert® Storage Code GRAY

Potassium bromide — For spectroscopy

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC20639-1000**	210.80	----

For IR spectroscopy; 99+%; BrK; KBr; **F.W.** 119.00; [7758-02-3]
Melting Point: 734.0°C; **Boiling Point:** 1435.0°C;

Potassium Bromide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P205-500**	162.20	6/718.50
3kg	Poly Bottle	**P205-3**	834.64	4/2402.75

Beads or Powder; ≥99 %; KBr; **F.W.** 119.00; [7758-02-3]
Melting Point: 730°C; **Boiling Point:** 1435°C; **Density:** 2.75g/mL

ChemAlert® Storage Code GRAY

Potassium Carbonate Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P208-500**	141.30	6/605.50
3kg	Poly Bottle	**P208-3**	741.83	4/2158.24

Granular Powder; ≥99.0 %; Salt of Tartar, Pearl Ash,
Carbonic Acid Potassium Salt, K_2CO_3; **F.W.** 138.21; [584-08-7]
Melting Point: 891°C; **Density:** 2.43g/mL

ChemAlert® Storage Code GRAY

Potassium carbonate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42408-5000**	82.30	----

Adsorbent; 99+%; CK_2O_3; K_2CO_3; **F.W.** 138.21; [584-08-7]
Melting Point: 891.0°C

Potassium Chloride — EP/BP/USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P333-500**	110.00	6/459.70
3kg	Poly Bottle	**P333-3**	420.00	4/1156.00
250 lb.	Fiber Drum	**P333-250LB**	1926.00	----

Crystalline; KCl; **F.W.** 74.55; [7447-40-7]; **Melting Point:** 773°C
Boiling Point: Sublimes at 1500°C; **Density:** 1.99g/mL

ChemAlert® Storage Code GRAY

Potassium Chloride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P217-500**	100.80	6/436.00
3kg	Poly Bottle	**P217-3**	363.00	4/1046.00
10kg	Poly Pail	**P217-10**	759.50	----

Crystalline; 99.0 to 100.5 %; KCl; **F.W.** 74.55; [7447-40-7]
Melting Point: 773°C; **Boiling Point:** Sublimes at 1500°C
Density: 1.99g/mL; Potassium chloride for calomel cells.

ChemAlert® Storage Code GRAY

Potassium chloride — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Plastic Bottle	**AC42409-0010**	90.00	----

99+%; ClK; KCl; **F.W.** 74.54; [7447-40-7]
Melting Point: 770.0°C; **Boiling Point:** 1420.0°C

Potassium Chloride

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**58992-16**	141.70	----

Clear, Colorless Liquid with possible precipitate; [7447-40-7, 7732-18-5]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Potassium Chromate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P220-100**	84.00	6/370.00
500g	Poly Bottle	**P220-500**	202.50	6/878.00

Granular; 99.5 to 100.5 %; K_2CrO_4; **F.W.** 194.19; [7789-00-6]
Melting Point: 975°C; **Density:** 2.73g/mL
DOT Class 5.1: Oxidizer; **UN** 3087

ChemAlert® Storage Code: YELLOW

Potassium Chromate Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SP152-500**	57.20	6/264.00

5% w/v; Neutral Potassium Chromate, K_2CrO_4
F.W. 194.19; [7789-00-6, 7761-88-8, 7732-18-5]
Melting Point: 0°C; **Density:** 1.03g/mL; Indicator for volumetric chloride determination.
Formulated as for APHA.

ChemAlert® Storage Code: GRAY

Potassium Cyanide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**P223I-100**	93.20	----
500g	Glass Bottle	**P223I-500**	162.00	----

Granular; KCN; **F.W.** 65.12; [151-50-8]
DOT Class 6.1: Poison; **UN** 1680

ChemAlert® Storage Code: BLUE

Potassium Dichromate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P188-100**	112.20	6/486.50
500g	Poly Bottle	**P188-500**	315.00	6/1361.00
3kg	Poly Bottle	**P188-3**	4780.00	----

Crystalline; ≥99 %; Potassium Bichromate, $K_2Cr_2O_7$
F.W. 294.18; [7778-50-9]; **Melting Point:** 398°C
Boiling Point: 500°C; **Density:** 2.68g/mL
DOT Class 6.1: Poison; **UN** 3086

ChemAlert® Storage Code: YELLOW

Potassium Dichromate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P186-500**	178.00	6/780.50
3kg	Poly Bottle	**P186-3**	447.62	4/1271.17

Fine Granules; $K_2Cr_2O_7$; **F.W.** 294.18; [7778-50-9]
Melting Point: 398°C; **Boiling Point:** 500°C
Density: 2.68g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1479

ChemAlert® Storage Code: YELLOW

Potassium Dichromate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP170-1**	82.50	6/364.00

[7778-50-9, 7732-18-5]

ChemAlert® Storage Code: BLUE

Potassium Dichromate

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**6060-16**	32.35	----
4L	Poly Natural	**6060-1**	138.60	----
20L	Cubitainer	**6060-5**	335.50	----

Clear, orange liquid; [7732-18-5, 7778-50-9]

Potassium Ferricyanide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P232-500**	239.00	6/1040.00

Crystalline; ≥99 %; Potassium Prussiate, Red,
Prussiate of Potash, Red, Everitt's Salt, $C_6FeK_3N_6$; $K_3Fe(CN)_6$
F.W. 329.25; [13746-66-2]; **Density:** 1.85g/mL

ChemAlert® Storage Code: GRAY

Potassium Ferrocyanide Trihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P236-500**	232.50	6/1012.00

Crystalline; 98.5 to 102.0 %; Potassium Prussiate,
Yellow, Prussiate of Potash, Yellow, $K_4Fe(CN)_6 \cdot 3H_2O$
$K_4Fe(CN)_6 \cdot 3H_2O$; **F.W.** 422.39; [14459-95-1]
Melting Point: 70°C; **Density:** 1.85g/mL

ChemAlert® Storage Code: GRAY

Potassium Fluoride Solution

Quantity	Packaging	Cat.No.	Each	Case of
20L	PolyPac	**SP354-20**	2235.76	----

50% w/w; [13455-21-5, 7732-18-5]
DOT Class 6.1: Poison; **UN** 3287

ChemAlert® Storage Code: BLUE

Potassium hydride

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Drum	**AC38796-5000**	792.50	----

Reduction reagent; HK; KH; **F.W.** 40.11; [7693-26-7, 8042-47-5]
Boiling Point: 316°C (760mm Hg); **Density:** 1.54g/mL; **UN** 3129;

Potassium Hydrogen Sulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P195-500**	240.28	6/1023.87
3kg	Glass Bottle	**P195-3**	996.49	4/2857.13

Fused Powder; Potassium Pyrosulfate, Potassium Bisulfate,
$K_2O_7S_2$; [7790-62-7]; **Melting Point:** 325°C; **Density:** 2.51g/mL
DOT Class 8: Corrosive; **UN** 2509; This product is a mixture of potassium pyrosulfate ($K_2S_2O_7$) and potassium hydrogen sulfate ($KHSO_4$).

ChemAlert® Storage Code: WHITE

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Potassium Hydroxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P250-500**	92.50	6/405.67
1kg	Poly Bottle	**P250-1**	146.90	6/644.00
3kg	Poly Bottle	**P250-3**	284.50	4/824.50
10kg	Poly Pail	**P250-10**	599.00	----
50kg	Fiber Drum	**P250-50**	2085.20	----

Pellets; ≥85.0%; Caustic Potash, Potassium Hydrate, KOH
F.W. 56.11; [1310-58-3]; **DOT Class 8**: Corrosive; **UN** 1813

ChemAlert® Storage Code WHITE

Potassium Hydroxide — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**P246-3**	164.90	4/479.50

Flakes; Caustic Potash, Potassium Hydrate, KOH
F.W. 56.11; [1310-58-3]; **Melting Point:** 360°C
Boiling Point: 1,320°C; **Density:** 2.04g/mL; **DOT Class 8**: Corrosive
UN 1813

ChemAlert® Storage Code WHITE

Potassium hydroxide — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42414-5000**	34.90	
2.5kg	Plastic Bottle	**AC42414-0025**	102.50	----

ca. 85%; HKO; KOH; **F.W.** 56.11; [1310-58-3]
Melting Point: 360.0°C; **Boiling Point:** 1320.0°C; **UN** 1813

Potassium Hydroxide Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**6160-16**	84.20	----
1L	Poly Natural	**6160-32**	118.70	----
4L	Poly Natural	**6160-1**	312.00	----

KOH; **F.W.** 56.11; [1310-58-3]

Potassium hydroxide — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC38062-0100**	274.00	----

HKO; KOH; **F.W.** 56.11; [1310-58-3, 7732-18-5]
Density: 1.3260g/mL; **UN** 1814

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SP208-500**	59.90	6/268.00

F.W. 56.11; [1310-58-3, 7732-18-5]; **Density:** 1.3g/mL
DOT Class 8: Corrosive; **UN** 1814
Titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP220-1**	109.50	6/490.00

KOH; **F.W.** 56.11; [1310-58-3, 67-56-1, 7732-18-5]
Melting Point: –100.00°C; **Flash Point:** 11°
Boiling Point: 66.11°C; **Density:** 0.8g/mL
DOT Class 3: Flammable Liquid; **UN** 2924; Titrated at 25°C to pH 8.2 (phenolphthalein endpoint) against standardized HCl.

CAUSTIC — ChemAlert® Storage Code RED

Potassium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic	**6262-32**	76.40	----
4L	Plastic	**6262-1**	392.00	----

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP222-1**	80.80	6/374.50
20L	PolyPac	**SP222-20**	495.08	----

KOH; **F.W.** 56.11; [1310-58-3, 67-56-1, 7732-18-5]
Melting Point: –100.00°C; **Flash Point:** 11°
Boiling Point: 66.11°C; **Density:** 0.8g/mL
DOT Class 3: Flammable Liquid; **UN** 2924; Titrated at 25°C to pH 8.2 (phenolphthalein endpoint) against standardized HCl.

CAUSTIC — ChemAlert® Storage Code RED

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SP214-1**	86.50	6/382.00

KOH; **F.W.** 56.11; [1310-58-3, 7732-18-5]
Density: 1.3g/mL; **DOT Class 8**: Corrosive; **UN** 1814
Titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**ST110-500**	78.10	6/346.12

[67-63-0, 1310-58-3]; **Melting Point:** –88.89°C
Flash Point: 15°; **Boiling Point:** 82.78°C
Density: 0.8g/mL; **DOT Class 3**: Flammable Liquid
UN 2924; For use as a titration standard.

CAUSTIC — ChemAlert® Storage Code RED

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP224-1**	99.30	6/447.00
4L	Poly Bottle	**SP224-P4**	316.85	4/924.64

KOH; **F.W.** 56.11; [1310-58-3, 67-56-1, 7732-18-5]
Melting Point: –100.00°C; **Flash Point:** 10°
Boiling Point: 66.11°C; **Density:** 0.8g/mL
DOT Class 3: Flammable Liquid; **UN** 2924; Titrated at 25°C to pH 8.2 (phenolphthalein endpoint) against standardized HCl.
Components: Methyl Alcohol (92.5-99.0%), Potassium Hydroxide (0.75-7.5%), and Water (0.6-6.0%)

CAUSTIC — ChemAlert® Storage Code RED

Potassium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SP226-1**	114.70	6/501.50

36 to 42 %; Caustic Potash Solution, KOH; **F.W.** 56.11 [1310-58-3, 7732-18-5]; **DOT Class 8**: Corrosive
UN 1814; For determination of carbon dioxide in gas analysis.

CAUSTIC — ChemAlert® Storage Code WHITE

Potassium Iodate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P253-100**	396.50	6/1746.00
500g	Poly Bottle	**P253-500**	1212.00	6/5240.00

Powder; 99.4 to 100.4 %; KIO_3; **F.W.** 214; [7758-05-6]
Melting Point: 560°C; **Density:** 3.89g/mL
DOT Class 5.1: Oxidizer; **UN** 1479

ChemAlert® Storage Code YELLOW

Potassium Iodate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP232-1**	149.15	6/653.13

[7758-05-6, 64-02-8, 7732-18-5]
Melting Point: 100°C
Density: 1g/mL; Oxidimetric standard.

ChemAlert® Storage Code GRAY

Potassium Iodide — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P412-500**	668.50	6/2870.00
3kg	Poly Bottle	**P412-3**	2850.00	4/8200.00
10kg	Poly Pail	**P412-10**	6857.04	----

Granular, Free Flowing; KI; **F.W.** 166; [7681-11-0]
Melting Point: 680°C; **Boiling Point:** 1330°C; **Density:** 3.13g/mL

ChemAlert® Storage Code GRAY

Potassium Iodide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P410-100**	264.00	6/1162.00
500g	Poly Bottle	**P410-500**	630.00	6/2850.00
3kg	Poly Bottle	**P410-3**	2730.00	4/7850.00
10kg	Poly Pail	**P410-10**	5600.00	----

Granular, Free Flowing; ≥99 %; KI; **F.W.** 166; [7681-11-0]
Melting Point: 680°C; **Boiling Point:** 1330°C; **Density:** 3.13g/mL

ChemAlert® Storage Code GRAY

Potassium iodide — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mg	Plastic Bottle	**AC41826-5000**	162.40	----

99+%; IK; KI; **F.W.** 166.00; [7681-11-0]; **Melting Point:** 680.0°C
Boiling Point: 1330.0°C

Potassium Iodide Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SP242-500**	78.20	6/344.50
1L	Glass Bottle	**SP242-1**	135.40	6/632.50
4L	Glass Bottle	**SP242-4**	393.23	4/1330.27

10% w/v; [7681-11-0, 7732-18-5]
Density: 0.7

ChemAlert® Storage Code GRAY

Potassium Iodide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP241-1**	75.80	6/339.00

5% w/v; [7681-11-0, 7732-18-5]
Density: 0.7

ChemAlert® Storage Code GRAY

Potassium Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P263-100**	84.60	6/387.50
500g	Poly Bottle	**P263-500**	177.40	6/744.00
3kg	Poly Bottle	**P263-3**	629.00	4/1836.00
50kg	Fiber Drum	**P263-50**	4580.00	----

Crystalline; ≥99.0 %; Saltpeter, Niter, KNO_3; **F.W.** 101.1
[7757-79-1]; **Melting Point:** 334°C; **Boiling Point:** 400°C
Density: 2.11g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1486

ChemAlert® Storage Code YELLOW

Potassium Nitrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P383-100**	66.87	6/279.20
500g	Poly Bottle	**P383-500**	236.00	6/1021.00

KNO_3; **F.W.** 101.1; [7757-79-1]; **Melting Point:** 334°C
Boiling Point: 400°C; **Density:** 2.11g/mL
DOT Class 5.1: Oxidizer; **UN** 1486

ChemAlert® Storage Code YELLOW

Potassium Nitrate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass Bottle	**P261-3**	271.00	4/788.00

Granular; KNO_3; **F.W.** 101.1; [7757-79-1]
Melting Point: 334°C; **Boiling Point:** 400°C; **Density:** 2.11g/mL
DOT Class 5.1: Oxidizer; **UN** 1486

ChemAlert® Storage Code YELLOW

Potassium Nitrite — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**P267-250**	270.00	6/1266.00
500g	Glass Bottle	**P267-500**	330.28	6/1443.84

Crystalline; ≥96 %; KNO_2; **F.W.** 85.1; [7758-09-0]
Melting Point: 387°C; **Density:** 1.92g/mL
DOT Class 5.1: Oxidizer; **UN** 1488

ChemAlert® Storage Code YELLOW

Potassium nitrate — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC44637-5000**	18.60	----
2.5kg	Glass Bottle	**AC44637-0025**	82.00	----

99%; KNO_3; KNO_3; **F.W.** 101.10; [7757-79-1]
Melting Point: 334.0°C; **Boiling Point:** 400.0°C; **UN** 1486

Potassium meta-Periodate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**P277-100**	224.00	6/939.50

99.8 to 100.3 %; Potassium Periodate, KIO_4
F.W. 230; [7790-21-8]; **Melting Point:** 582°C; **Density:** Negligible
DOT Class 5.1: Oxidizer; **UN** 1479; Suitable for determination of manganese.

ChemAlert® Storage Code YELLOW

Potassium Permanganate — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass	**P287-500**	120.52	6/505.95
2.5kg	Glass	**P287-212**	385.19	4/1041.51

Crystalline; 99.0 to 100.5 %; $KMnO_4$; **F.W.** 158.03; [7722-64-7]
C.I. 77755; **Melting Point:** 240°C; **Density:** 2.7g/mL
DOT Class 5.1: Oxidizer; **UN** 1490

ChemAlert® Storage Code YELLOW

Fisher Scientific

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Prices subject to change.

Potassium Permanganate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P279-500**	152.30	6/630.00
2.5kg	Glass Bottle	**P279-212**	468.50	4/1358.00

Crystalline; ≥99 %; $KMnO_4$; **F.W.** 158.03; [7722-64-7]
C.I. 77755; **Melting Point:** 240°C; **Density:** 2.7g/mL
DOT Class 5.1: Oxidizer; **UN** 1490; Suitable for determination of mercury.

ChemAlert® Storage Code YELLOW

Potassium Permanganate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP282-1**	104.90	6/469.00
4L	Glass Bottle	**SP282-4**	167.89	4/546.36

[7722-64-7, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; **DOT Class 5.1**: Oxidizer; **UN** 3139

ChemAlert® Storage Code YELLOW

Potassium Permanganate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SP288-1**	78.30	6/373.00
4L	Glass Bottle	**SP288-4**	168.00	4/489.00

[7722-64-7, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; Titrated at 25°C against NIST* sodium oxalate.

ChemAlert® Storage Code GRAY

Potassium Persulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**P282-100**	81.00	6/367.50
500g	Poly Bottle	**P282-500**	256.50	6/1120.16

≥99 %; Dipotassium Peroxydisulfate, $K_2S_2O_8$; **F.W.** 270.32
[7727-21-1]; **Melting Point:** 100°C; **Density:** 2.48g/mL
DOT Class 5.1: Oxidizer; **UN** 1492; Suitable for determination of mercury.

ChemAlert® Storage Code YELLOW

Potassium Persulfate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P281-500**	144.00	6/601.50

Crystalline Powder; ≥99.5 %
Dipotassium Peroxydisulfate, $K_2S_2O_8$; **F.W.** 270.32; [7727-21-1]
Melting Point: 100°C; **Density:** 2.48g/mL; **DOT Class 5.1**: Oxidizer **UN** 1492

ChemAlert® Storage Code YELLOW

Potassium Phosphate Dibasic Anhydrous — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P290-500**	230.00	6/1027.00
2.5kg	Poly Bottle	**P290-212**	716.50	4/2070.00
12kg	Poly Pail	**P290-12**	2160.00	----

Crystalline Powder; Potassium Monohydrogen Phosphate, Dipotassium Hydrogen Phosphate, K_2HPO_4
F.W. 174.18; [7758-11-4]; **Melting Point:** 252.78°C; **Density:** 2.3g/mL

ChemAlert® Storage Code GRAY

Potassium Phosphate Dibasic Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**P288-100**	70.00	6/316.50
500g	Glass Bottle	**P288-500**	217.50	6/957.00
3kg	Glass Bottle	**P288-3**	782.00	4/2300.00
50kg	Fiber Drum	**P288-50**	4010.00	----
200 lb.	Fiber Drum	**P288-200LB**	4790.00	----

Crystalline Powder; ≥98.0 %; Potassium Monohydrogen Phosphate, Dipotassium Hydrogen Phosphate, K_2HPO_4
F.W. 174.18; [7758-11-4]; **Melting Point:** 252.78°C; **Density:** 2.3g/mL

ChemAlert® Storage Code GRAY

Potassium phosphate, dibasic — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42419-5000**	90.60	6/543.60

98+%; Dipotassium hydrogen phosphate, HK_2O_4P
K_2HPO_4; **F.W.** 174.18; [7758-11-4]; **Melting Point:** 340.0°C

Potassium Phosphate Monobasic — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Glass Bottle	**P286-1**	240.00	6/1045.00

Crystalline; Also meets ACS specifications; ≥99 %
Potassium Dihydrogen Phosphate, KH_2PO_4
F.W. 136.09; [7778-77-0]; **Melting Point:** 252.6°C; **Density:** 2.34g/mL

ChemAlert® Storage Code GRAY

Potassium Phosphate Monobasic — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P380-500**	148.20	6/643.50
2.5kg	Poly Bottle	**P380-212**	471.00	4/1429.00
12kg	Poly Pail	**P380-12**	1382.00	----
250 lb.	Fiber Drum	**P380-250LB**	5284.16	----

Crystalline; Potassium Acid Phosphate, Potassium Biphosphate, Potassium Dihydrogen Phosphate, KH_2PO_4
F.W. 136.09; [7778-77-0]; **Melting Point:** 252.6°C
Density: 2.34g/mL

ChemAlert® Storage Code GRAY

Potassium Phosphate Monobasic — Primary Standard

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P382-500**	155.50	6/648.50

Crystalline; 99.5 to 100.5 %; Potassium Dihydrogen Phosphate, KH_2PO_4; **F.W.** 136.09; [7778-77-0]
Melting Point: 252.6°C; **Density:** 2.34g/mL

ChemAlert® Storage Code GRAY

Potassium Phosphate Monobasic — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P285-500**	140.60	6/609.00
3kg	Poly Bottle	**P285-3**	496.50	4/1426.00
10kg	Poly Pail	**P285-10**	1251.00	----
50kg	Fiber Drum	**P285-50**	4440.00	----
250 lb.	Fiber Drum	**P285-250LB**	6100.00	----

Crystalline; ≥99 %; Potassium Dihydrogen Phosphate, KH_2PO_4
F.W. 136.09; [7778-77-0]; **Melting Point:** 252.6°C
Density: 2.34g/mL

ChemAlert® Storage Code GRAY

Potassium Phosphate Monobasic — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P284-500**	83.90	6/377.50

Granular; Potassium Acid Phosphate, Potassium Biphosphate, Potassium Dihydrogen Phosphate, KH_2PO_4
F.W. 136.09; [7778-77-0]; **Melting Point:** 252.6°C; **Density:** 2.34g/mL

ChemAlert® Storage Code GRAY

Potassium phosphate, monobasic — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42420-5000**	63.50	----

99+%; Potassium dihydrogen phosphate, H_2KO_4P
KH_2PO_4; **F.W.** 136.09; [7778-77-0]; **Melting Point:** 253.0°C

Potassium Phosphate Tribasic — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P289-500**	290.50	6/1270.00

Granular Powder; ≥95 %; Tripotassium Phosphate, Potassium Orthophosphate, K_3O_4P; [7778-53-2]
Melting Point: 1340°C

ChemAlert® Storage Code GRAY

Potassium Sulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P304-500**	122.10	6/505.00
3kg	Poly Bottle	**P304-3**	549.50	4/1575.00
10kg	Poly Pail	**P304-10**	1419.00	----

Crystalline; ≥99 %; K_2O_4S; **F.W.** 174.26; [7778-80-5]
Melting Point: 1067°C; **Boiling Point:** 1689°C; **Density:** 2.66g/mL
Suitable for determination of nitrogen.

ChemAlert® Storage Code GRAY

Potassium Sulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P305-500**	210.00	6/872.00

Powder; ≥99 %; K_2O_4S; **F.W.** 174.26; [7778-80-5]
Melting Point: 1067°C; **Boiling Point:** 1689°C; **Density:** 2.66g/mL
Suitable for determination of nitrogen.

ChemAlert® Storage Code GRAY

Potassium Tartrate Hemihydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P313-500**	227.00	6/998.00

Crystalline; Tartar Soluble, Tartaric Acid Potassium Salt, $C_4H_4K_2O_6 \cdot 0.5H_2O$; $KOOC(CHOH)_2COOK \cdot 0.5H_2O$
F.W. 235.28; [6100-19-2]; **Melting Point:** 155°C
Boiling Point: 200°C; **Density:** 2g/mL

ChemAlert® Storage Code GRAY

Potassium tert-butoxide — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	AcroSeal® Glass Bottle	**AC37122-0025**	763.60	----

Potassium tert-butylate, C_4H_9KO; $(CH_3)_3COK$; **F.W.** 112.21
[865-47-4, 109-99-9]; **Flash Point:** –19°C; **Density:** 0.9020g/mL
UN 2920

Potassium Thiocyanate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**P317-100**	85.90	6/394.00
500g	Glass Bottle	**P317-500**	271.50	6/1177.00

Crystalline; ≥98.5 %; Potassium Rhodanate, Potassium Sulfocyanate, Potassium Sulfocyanide, Potassium Isothiocyanate, KSCN; **F.W.** 97.18; [333-20-0]; **Melting Point:** 170° to 179°C/338° to 354.2°F; **Boiling Point:** 500°C; **Density:** 1.89g/mL

ChemAlert® Storage Code GRAY

Potassium Thiocyanate — ACS Volumetric Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**6580-32**	62.50	----
4L	Poly Natural	**6580-1**	111.70	----
20L	Cubitainer	**6580-5**	382.00	----

Clear, colorless liquid; [7732-18-5, 333-20-0]

1-Propanol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A414-500**	71.40	6/297.50
1L	Glass Bottle	**A414-1**	116.69	6/497.24
4L	Glass Bottle	**A414-4**	279.70	4/607.52
4L	Aluminum Can	**A414S-4**	362.00	4/964.00
20L	Steel Pail	**A414-20**	906.00	----

n-Propyl Alcohol, C_3H_8O; $CH_3CH_2CH_2OH$
F.W. 60.09; [71-23-8]; **Melting Point:** –127°C
Flash Point: 15°C/59°F; **Boiling Point:** 97°C
Density: 2.07; **DOT Class 3**: Flammable Liquid; **UN** 1274

SOLVENT

ChemAlert® Storage Code RED

1-Propanol — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC14948-0025**	90.20	299.50

99+%; Propyl alcohol, C_3H_8O; $CH_3CH_2CH_2OH$; **F.W.** 60.10; [71-23-8]
Melting Point: – 127.0°C; **Flash Point:** 15°C; **Boiling Point:** 97.0°C
Density: 0.8000g/mL; **n:** 1.3840 to 1.3860; **UN** 1274

2-Propanol — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A464-1**	80.00	6/427.50
4L	Glass Bottle	**A464-4**	180.50	4/732.50
4L	Glass/Safe-Cote	**A464SK-4**	199.70	4/605.00

High purity mobile phase for HPLC and/or extraction solvent.; 99.9% min by GC; Isopropanol, Isopropyl Alcohol, IPA, CH_4O; $(CH_3)_2CHOH$; **F.W.** 32.04; [67-63-0]
Melting Point: –98°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 64.7°C; **Density:** 2.1 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1219; High purity and versatile solvent for HPLC.
High UV transmittance and low evaporation residue.
Filtered through a 0.2-µm filter to remove particulates.

SOLVENT

ChemAlert® Storage Code RED

Fisher Scientific

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Prices subject to change.

2-Propanol — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A451-1**	93.13	6/529.32
1L	Glass/Safe-Cote	**A451SK-1**	127.40	6/502.52
4L	Glass Bottle	**A451-4**	170.32	4/524.31
4L	Glass/Safe-Cote	**A451SK-4**	191.58	4/556.89

SOLVENT — ChemAlert® Storage Code RED

Mobile phase for HPLC applications.; 99.9% min by GC
Isopropanol, Isopropyl Alcohol, IPA, C_3H_8O
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1219
HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a 0.2µm filter to remove particulates.

2-Propanol — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A522-4**	357.00	----

SOLVENT — ChemAlert® Storage Code RED

Isopropanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1219

2-Propanol — USP/NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A516-500**	91.50	6/247.50
4L	Glass Bottle	**A516-4**	229.50	4/624.50
20L	Steel Pail	**A516-20**	488.00	----
200L	Steel Drum	**A516-200**	2610.00	----

SOLVENT — ChemAlert® Storage Code RED

Clear, Colorless Liquid; ≥99 %; Isopropanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$; **F.W.** 60.1; [67-63-0]
Melting Point: –88°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 82°C; **Density:** 2.1 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1219; USP

2-Propanol — Pesticide Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A519-4**	242.00	4/627.50

SOLVENT — ChemAlert® Storage Code RED

Isopropanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1219

2-Propanol — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A419-1**	128.10	6/341.50
4L	Glass Bottle	**A419-4**	221.00	4/547.50

SOLVENT — ChemAlert® Storage Code RED

Clear, Colorless Liquid; Also meets ACS specifications ≥99.5 %; Isopropanol,, Isopropyl Alcohol, C_3H_8O
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1219
Suitable for use in the ultraviolet and infrared ranges.

2-Propanol — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
1 gal. (3.79L)	Poly Bottle	**A426F-1GAL**	122.40	4/374.00
4L	Poly Bottle	**A426P-4**	115.90	4/371.00
4L	Aluminum Can	**A426S-4**	150.80	4/446.50
20L	Steel Pail	**A426S-20**	400.50	----
200L	Steel Drum	**A426S-200**	2660.00	----

SOLVENT — ChemAlert® Storage Code RED

Clear, Colorless Liquid; Isopropanol, Isopropyl Alcohol, IPA, C_3H_8O; $(CH_3)_2CHOH$; **F.W.** 60.10; [67-63-0]
Melting Point: –88°C; **Flash Point:** 12°C/53.6°F
Boiling Point: 82°C; **Density:** 2.1 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1219; Specially filtered for use in tissue processors.

2-Propanol — Certified ACS Reagent Grade Plus

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A416-500**	51.10	6/306.60
1L	Glass Bottle	**A416-1**	84.21	6/300.25
4L	Glass Bottle	**A416-4**	214.54	4/486.71
4L	Poly Bottle	**A416P-4**	233.00	4/736.50
4L	Aluminum Can	**A416S-4**	294.00	4/857.00
4L	Glass/Safe-Cote	**A416SK-4**	254.50	4/558.00
20L	Steel Pail	**A416-20**	466.16	----
200L	Steel Drum	**A416-200**	2930.00	----

SOLVENT — ChemAlert® Storage Code RED

Clear, Colorless Liquid; ≥99.5 %
Isopropanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1219; In addition to meeting or exceeding the latest ACS specifications, are analyzed for more than 16 metals. Actual lot of analysis on label.

2-Propanol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A417-1**	85.34	6/366.19
4L	Glass Bottle	**A417-4**	224.50	4/643.00

SOLVENT — ChemAlert® Storage Code RED

Isopropanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1219; Suitable for use in cholesterol and triglycerides determinations in regular and "N„ methods.

2-Propanol — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A415-4**	149.20	4/430.63
20L	Steel Pail	**A415-20**	454.50	----

SOLVENT — ChemAlert® Storage Code RED

Clear, Colorless Liquid; Purified; Isopropanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$; **F.W.** 60.1 [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1219
General purpose laboratory.

2-Propanol — Low Water

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**A520-4**	233.00	4/667.00

Clear, Colorless Liquid; Also meets ACS specifications
≥99.5 %; Isopropanol, Isopropyl Alcohol, C_3H_8O
F.W. 60.1; [67-63-0]; **Melting Point:** –88°C
Flash Point: 12°C/53.6°F; **Boiling Point:** 82°C
Density: 2.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1219
Low water concentration.

SOLVENT — ChemAlert® Storage Code RED

Propargyl bromide

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC13148-0010**	743.20	----

Alkylation reagent; 3-Bromopropyne, C_3H_3Br; $HC{\equiv}CCH_2Br$
F.W. 118.96; [106-96-7, 108-88-3]; **Flash Point:** 4°C
Boiling Point: 88.0°C to 90.0°C; **Density:** 1.3800g/mL; **n:** 1.4900 to 1.4960

Propylene Glycol — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**P355-1**	210.00	6/875.50
4L	Glass Bottle	**P355-4**	570.50	4/1629.00
20L	Lined Steel Drum	**P355-20**	1512.00	----
200L	Steel Drum	**P355-200**	6662.21	----

1,2-Propanediol, 1,2-Dihydroxypropane, Methyl Glycol, $C_3H_8O_2$
$CH_3CHOHCH_2OH$; **F.W.** 76.1; [57-55-6]; **Melting Point:** –60°C
Flash Point: 99°C/210.2°F; **Boiling Point:** 187°C
Density: 2.62 (Air = 1.0)

ChemAlert® Storage Code GRAY

Propylene Oxide — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O4332-1**	202.50	6/841.50

1,2-Epoxypropane, Methyloxirane,
Propene Oxide, C_3H_6O; CH_3CHCH_2O
F.W. 58.08; [75-56-9]; **Melting Point:** –112°C
Flash Point: –37°C/–34.6°F; **Boiling Point:** 34°C
Density: 2.0 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1280

SOLVENT — ChemAlert® Storage Code RED

Pyridine — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**P368-500**	177.84	6/767.92
1L	Glass Bottle	**P368-1**	337.95	6/1397.50
4L	Glass Bottle	**P368-4**	926.31	4/2576.43

Suitable for Karl Fischer Reagent; ≥99 %
Azabenzene, C_5H_5N; N:CHCH:CHCH:CH
F.W. 79.1; [110-86-1]; **Melting Point:** –42°C
Flash Point: 17°C/62.6°F; **Boiling Point:** 115° to 116°C/239° to 240.8°F
Density: 2.73 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1282
Suitable for Karl Fischer Reagent.

SOLVENT — ChemAlert® Storage Code RED

Pyridine — Technical Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**P369-4**	874.00	4/2430.00

C_5H_5N; N:CHCH:CHCH:CH; **F.W.** 79.1; [110-86-1]
Melting Point: –42°C; **Flash Point:** 17°C/62.6°F
Boiling Point: 115° to 116°C/239° to 240.8°F
Density: 2.73 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1282

SOLVENT — ChemAlert® Storage Code RED

Pyridine — Extra Dry over Molecular Sieve

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC36442-1000**	82.00	----
1L	AcroSeal® Glass Bottle	**AC36442-0010**	145.60	----

99.5%; C_5H_5N; **F.W.** 79.10; [110-86-1]; **Melting Point:** – 42.0°C
Flash Point: 17°C; **Boiling Point:** 115.0°C to 116.0°C; **Density:** 0.9780g/mL
n: 1.5085 to 1.5105; **UN** 1282

Pyridine — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC61044-0010**	145.50	6/725.00

99.0%; C5 H5 N; **F.W.** 79.10; []; **Melting Point:** 42.0C; **Flash Point:** 17C
Boiling Point: 115.0C to 116.0C; **Density:** 0.9780g/mL; **n:** 1.5085 to 1.5105
UN 1282

Pyridine — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC61099-1000**	81.90	6/491.40

99.0%; C5 H5 N; **F.W.** 79.10; []; **Melting Point:** 42.0C; **Flash Point:** 17C
Boiling Point: 115.0C to 116.0C; **Density:** 0.9780g/mL; **n:** 1.5085 to 1.5105
UN 1282

Pyridine — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
50mL	Glass Bottle	**AC13178-0500**	61.00	----
1L	EcoSafPak	**AC13178-0010**	94.20	312.50
2.5L	Glass Bottle	**AC13178-0025**	175.90	584.00

99+%; C_5H_5N; **F.W.** 79.10; [110-86-1]; **Melting Point:** – 42.0°C
Flash Point: 17°C; **Boiling Point:** 115.0°C to 116.0°C; **Density:** 0.9780g/mL
n: 1.5085 to 1.5105; **UN** 1282

Pyridine — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC41854-5000**	100.30	601.80

99+%; C_5H_5N; **F.W.** 79.10; [110-86-1]; **Melting Point:** – 42.0°C
Flash Point: 17°C; **Boiling Point:** 115.0°C to 116.0°C; **Density:** 0.9780g/mL
n: 1.5085 to 1.5105; **UN** 1282

Pyridine-Barbituric Acid Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber glass	**6584-16**	110.70	----
1L	Amber glass	**6584-32**	173.80	----

Cyanide Determination ASTM,APHA; Clear, golden colored liquid
[7732-18-5, 110-86-1, 7647-01-0, 67-52-7]

Pyrocatechol Violet — Pure

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC14654-0250**	196.20	----

Indicator; Pyrocatecholsulfonephthalein, $C_{19}H_{14}O_7S$
F.W. 386.36; [115-41-3]

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Prices subject to change.

Safranin O — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**S670-25**	222.32	6/968.19
100g	Glass Bottle	**S670-100**	582.61	6/2646.25

Basic Red 2, $C_{20}H_{19}ClN_4$; **F.W.** 350.85; [477-73-6]
C.I. 50240; For use in histology, cytology, bacteriology (staining).

ChemAlert® Storage Code GRAY

Salicylic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A277-500**	166.80	6/695.00

Crystalline Powder; 2-Hydroxybenzoic Acid, $C_7H_6O_3$
2-HOC_6H_4COOH; **F.W.** 138.12; [69-72-7]

ChemAlert® Storage Code GRAY

Sand, Ottawa

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S23-3**	141.10	4/416.79
50kg	Fiber Drum	**S23-50**	1023.00	----

SiO_2; [14808-60-7]; **Melting Point:** 1,710°C
Boiling Point: 2,240°C; **Density:** 2.65g/mL; ASTM C 190 and AASHTO Method T-132.

ChemAlert® Storage Code GRAY

Sand, Sea

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S25-500**	64.10	6/286.50
3kg	Poly Bottle	**S25-3**	159.70	4/471.50
10kg	Bag in Box	**S25-10**	268.00	----

Washed; SiO_2; [14808-60-7]; **Melting Point:** 1,710°C
Boiling Point: 2,240°C; **Density:** 2.65g/mL

ChemAlert® Storage Code GRAY

Sand

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC61235-5000**	28.50	----
5kg	Plastic Bottle	**AC61235-0050**	85.60	----
25kg	Plastic Bottle	**AC61235-0250**	372.70	----

Filter aid; Quartz, Silicon dioxide, O2 Si; SiO
F.W. 60.08; **Melting Point:** 1610.0C; **Boiling Point:** 2230.0C

Schiff Reagent Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**SS32-500**	105.30	6/513.00

[632-99-5, 7681-57-4, 7647-01-0, 7732-18-5]; **Density:** 0.7g/mL
DOT Class 8: Corrosive; **UN** 1789; For detection of aldehydes.

ChemAlert® Storage Code WHITE

ScintiVerse* BD Cocktail — Scintanalyzed*

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**SX18-4**	248.50	4/712.00

[67774-74-7, 577-11-7, 9016-45-9, 92-71-7, 13280-61-0]
Density: 0.9g/mL; Universal LSC Cocktail for aqueous, nonaqueous and emulsion counting systems. Contains biodegradable linear alkyl aromatic solvent, which can be classified as a nonhazardous liquid by local sewerage regulations.

ChemAlert® Storage Code GRAY

ScintiVerse* II Cocktail — Scintanalyzed*

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**SX12-4**	291.50	4/837.00

[95-63-6, 13280-61-0, 92-71-7, 9003-11-6]
Flash Point: 43°; **Density:** 0.9g/mL
DOT Class 3: Flammable Liquid; **UN** 1993
General-purpose LSC Cocktail for aqueous, nonaqueous and emulsion counting systems. Pseudocumene base. Higher aqueous counting efficiencies than ScintiVerse* I Cocktail.

SOLVENT

ChemAlert® Storage Code RED

Silicic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A288-500**	470.00	4/1396.00

Precipitated Powder; Silica Acid, H_2O_3Si
[7699-41-4]

ChemAlert® Storage Code GRAY

Silver Chloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S174-100**	1293.00	6/5550.00

Granular; AgCl; **F.W.** 143.32; [7783-90-6]
Melting Point: 455°C; **Boiling Point:** 1,550°C; **Density:** 5.56g/mL

ChemAlert® Storage Code GRAY

Silver Nitrate — USP

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S486-100**	716.00	6/3100.00
500g	Glass Bottle	**S486-500**	2610.00	6/11350.00

Crystalline; 99.8 to 100.5 %; $AgNO_3$; **F.W.** 169.87; [7761-88-8]
Melting Point: 212°C; **Boiling Point:** 433°C; **Density:** 4.35g/mL
DOT Class 5.1: Oxidizer; **UN** 1493

ChemAlert® Storage Code YELLOW

Silver Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**S181-25**	442.00	6/1879.00
100g	Glass Bottle	**S181-100**	5470.00	----
500g	Glass Bottle	**S181-500**	5620.00	6/23810.00

Crystalline; ≥99.7 %; $AgNO_3$; **F.W.** 169.87; [7761-88-8]
Melting Point: 212°C; **Boiling Point:** 433°C; **Density:** 4.35g/mL
DOT Class 5.1: Oxidizer; **UN** 1493

ChemAlert® Storage Code YELLOW

Silver nitrate — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC19768-0050**	39.70	----
25g	Glass Bottle	**AC19768-0250**	113.70	----
100g	Glass Bottle	**AC19768-1000**	377.50	----
500g	Glass Bottle	**AC19768-5000**	965.50	----
2.5Kg	Glass Bottle	**AC19768-0025**	2810.00	----

99.85%; $AgNO_3$; $AgNO_3$; **F.W.** 169.87; [7761-88-8]
Melting Point: 212.0°C; **Boiling Point:** 444.0°C

Silver Nitrate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SS68-500**	1224.00	6/5500.00

$AgNO_3 \cdot H_2O$; [7761-88-8, 7732-18-5]; **Boiling Point:** 444°C
Density: 1g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1493
Standardized at 25°C against NIST* potassium chloride.

ChemAlert* Storage Code: YELLOW

Silver Nitrate

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Poly	**7002-32**	161.60	----
4L	Amber Poly	**7002-1**	537.00	----

[7732-18-5, 7761-88-8]

Silver Nitrate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SS72-500**	199.30	6/853.77
1L	Glass Bottle	**SS72-1**	326.00	6/1459.00
4L	Glass Bottle	**SS72-4**	960.00	4/3020.00
20L	PolyPac	**SS72-20**	3420.00	----

[7761-88-8, 7732-18-5]; **Density:** 0.7; **DOT Class 5.1**: Oxidizer
UN 1493; Standardized at 25°C against NIST* potassium chloride.

ChemAlert* Storage Code: YELLOW

Silver nitrate

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC12425-0010**	65.30	----

0.1N standard solution; Volumetric standard solution
$AgNO_3$; $AgNO_3$; **F.W.** 169.87
[7761-88-8, 7732-18-5]; **Density:** 1.0150g/mL

Silver Nitrate

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Plastic	**6980-32**	91.00	----
4L	Amber Plastic	**6980-1**	325.50	----
20L	Cubitainer	**6980-5**	953.50	----

For Chloride Titrations

Silver Nitrate Solution — Certified APHA

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SS82-1**	122.20	6/537.50

Nitric Acid Silver (1+) Salt, [7761-88-8, 7732-18-5]
Density: 1g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1493
For chloride determination in water analysis.
Standardized at 25°C.

ChemAlert* Storage Code: YELLOW

Silver Oxide — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S184-100**	857.00	6/3710.00

Ag_2O; **F.W.** 231.74; [20667-12-3]; **Density:** 7.14g/mL
DOT Class 5.1: Oxidizer; **UN** 1479

ChemAlert* Storage Code: YELLOW

Silver Sulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**S190-25**	317.00	6/1354.00
100g	Glass Bottle	**S190-100**	1012.00	6/4380.00
500g	Glass Bottle	**S190-500**	7630.00	6/32100.00

Powder; ≥98 %; Ag_2O_4S; **F.W.** 311.8; [10294-26-5]
Melting Point: 652.2°C; **Boiling Point:** 1085°C; **Density:** 5.5g/mL

ChemAlert* Storage Code: GRAY

Sodium — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1 lb.	Metal Can	**S135-1LB**	300.25	6/1251.12

Na; **F.W.** 22.99; [7440-23-5]; **Melting Point:** 97.78°C
Boiling Point: 882.78°C; **Density:** 0.97g/mL
DOT Class 4.3: Dangerous When Wet; **UN** 1428

ChemAlert* Storage Code: RED

Sodium Acetate Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S210-500**	184.50	6/758.24
2kg	Glass Bottle	**S210-2**	528.50	4/1530.00

Fused Crystals; ≥99 %; $C_2H_3O_2Na$; CH_3COONa
F.W. 82.03; [127-09-3]; **Melting Point:** 324°C
Flash Point: 250°C/482°F

ChemAlert* Storage Code: GRAY

Sodium Acetate Trihydrate — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**S220-1**	177.50	6/737.50

Also meets ACS specifications; 99 to 101 %; $C_2H_3O_2Na \cdot 3H_2O$
$CH_3COONa \cdot 3H_2O$; **F.W.** 136.08; [6131-90-4]
Melting Point: 57.78°C; **Boiling Point:** 122.78°C; **Density:** 1.45g/mL

ChemAlert* Storage Code: GRAY

Sodium Acetate Trihydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S608-500**	107.30	6/446.50
3kg	Poly Bottle	**S608-3**	397.00	4/1092.00
12kg	Poly Pail	**S608-12**	911.00	----

Granular; $C_2H_3O_2Na \cdot 3H_2O$; $CH_3COONa \cdot 3H_2O$
F.W. 136.08; [6131-90-4]; **Melting Point:** 57.78°C
Boiling Point: 122.78°C; **Density:** 1.45g/mL

ChemAlert* Storage Code: GRAY

Sodium Acetate Trihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S209-500**	94.00	6/413.50
3kg	Poly Bottle	**S209-3**	347.50	4/1018.00
10kg	Poly Pail	**S209-10**	717.50	----
50kg	Fiber Drum	**S209-50**	1270.00	----

Crystalline; 99.0 to 101.0 %; $C_2H_3O_2Na \cdot 3H_2O$; $CH_3COONa \cdot 3H_2O$
F.W. 136.08; [6131-90-4]; **Melting Point:** 57.78°C
Boiling Point: 122.78°C; **Density:** 1.45g/mL

ChemAlert* Storage Code: GRAY

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Sodium Azide — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**S227I-25**	85.70	----
100g	Poly Bottle	**S227I-100**	134.00	----
500g	Poly Bottle	**S227I-500**	317.50	----
1kg	Poly Bottle	**S227I-1**	424.00	----

Granular; ≥99 %; Sodium Trinitride, N_3Na; NaN_3; **F.W.** 65.01 [26628-22-8]; **Melting Point:** 275°C (decom); **Boiling Point:** 300°C **Density:** 1.85g/mL; **DOT Class 6.1**: Poison; **UN** 1687

ChemAlert® Storage Code BLUE

Sodium Bicarbonate — USP/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Poly Bottle	**S637-212**	250.00	----
12kg	Poly Pail	**S637-12**	768.50	----

Crystalline Powder; $NaHCO_3$; **F.W.** 84.01; [144-55-8]
Melting Point: 270°C; **Density:** 2.16g/mL

Sodium Bicarbonate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S631-3**	171.00	4/499.86
10kg	Poly Pail	**S631-10**	261.00	----
50kg	Fiber Drum	**S631-50**	835.50	----

Powder; Sodium Acid Carbonate,
Sodium Hydrogen Carbonate, $NaHCO_3$; **F.W.** 84.01; [144-55-8]
Melting Point: 270°C; **Density:** 2.16g/mL

ChemAlert® Storage Code GRAY

Sodium Bicarbonate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S233-500**	60.20	6/272.50
3kg	Poly Bottle	**S233-3**	161.90	4/475.00
10kg	Poly Pail	**S233-10**	257.50	----
50kg	Fiber Drum	**S233-50**	835.50	----
300 lb.	Fiber Drum	**S233-300LB**	1298.00	----

Powder; 99.7 to 100.3 %; Sodium Acid Carbonate, Carbonic Acid Monosodium Salt, Sodium Hydrogen Carbonate, $NaHCO_3$
F.W. 84.01; [144-55-8]; **Melting Point:** 270°C; **Density:** 2.16g/mL

ChemAlert® Storage Code GRAY

Sodium Bisulfate Monohydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S240-500**	253.50	6/1115.00
3kg	Poly Bottle	**S240-3**	800.00	4/2310.00

Crystalline; Salt Cake, Sodium Acid Sulfate, Sodium Hydrogen Sulfate, Niter Cake, $NaHSO_4 \cdot H_2O$; **F.W.** 138.07; [10034-88-5]; **Melting Point:** 183°C; **Density:** 2.12g/mL; **DOT Class 8**: Corrosive; **UN** 3260;

ChemAlert® Storage Code WHITE

Sodium Bisulfite — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S654-500**	91.60	6/411.00
3kg	Poly Bottle	**S654-3**	326.18	4/943.71

Powder; Sodium Hydrogen Sulfite, $HNaO_3S$
[7631-90-5, 7681-57-4, 7757-82-6]; **Melting Point:** 150°C (decom)
Density: 1.48g/mL; Mixture of $NaHSO_3$ and $Na_2S_2O_5$.

ChemAlert® Storage Code GRAY

Sodium Borohydride

Quantity	Packaging	Cat.No.	Each	Case of
10g	Poly Bottle	**S678-10**	94.60	6/417.50
25g	Poly Bottle	**S678-25**	163.70	6/676.50

Powder; H_4BNa; **F.W.** 37.83; [16940-66-2]; **Density:** 1.3
DOT Class 4.3: Dangerous When Wet; **UN** 1426

ChemAlert® Storage Code RED

Sodium borohydride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC20005-1000**	155.80	----

Reduction reagent; 99%; Sodium tetrahydroborate, SBH, H_4BNa; $NaBH_4$
F.W. 37.83; [16940-66-2]; **Melting Point:** 400.0°C; **UN** 1426

Sodium borohydride

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bucket	**AC18930-0025**	745.50	----

Reduction reagent; 98+%; Sodium tetrahydroborate, SBH, H_4BNa; $NaBH_4$
F.W. 37.83; [16940-66-2]; **Melting Point:** 400.0°C; **UN** 1426

Sodium Bromide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S255-500**	150.00	6/622.00
3kg	Glass Bottle	**S255-3**	560.00	4/1624.00

Granular; ≥99 %; BrNa; **F.W.** 102.89; [7647-15-6]
Melting Point: 755°C; **Boiling Point:** 1390°C; **Density:** 3.21g/mL

ChemAlert® Storage Code GRAY

Sodium Carbonate Anhydrous — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S495-500**	131.90	6/550.50

Powder; Also meets ACS specifications; ≥99.5 %
Carbonic Acid Disodium Salt, Soda Ash, Na_2CO_3; **F.W.** 105.99 [497-19-8]; **Melting Point:** 851°C; **Boiling Point:** 1600°C
Density: 2.53g/mL

ChemAlert® Storage Code GRAY

Sodium Carbonate Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S263-500**	109.60	6/483.00
1kg	Poly Bottle	**S263-1**	206.50	6/907.00
3kg	Poly Bottle	**S263-3**	387.00	4/1129.00
10kg	Poly Pail	**S263-10**	557.50	----
50kg	Fiber Drum	**S263-50**	1362.00	----

Powder; ≥99.5 %; Soda Ash, Na_2CO_3; **F.W.** 105.99; [497-19-8]
Melting Point: 851°C; **Boiling Point:** 1600°C; **Density:** 2.53g/mL

ChemAlert® Storage Code GRAY

Sodium Carbonate Anhydrous — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Poly Pail	**S261-10**	170.50	----

Calcined; Soda Ash, Na_2CO_3; **F.W.** 105.99; [497-19-8]
Melting Point: 851°C; **Boiling Point:** 1600°C
Density: 2.53g/mL

ChemAlert® Storage Code GRAY

Sodium carbonate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42428-5000**	65.50	326.50

Adsorbent; 99.6%; CNa_2O_3; Na_2CO_3; **F.W.** 105.99; [497-19-8]
Melting Point: 851.0°C; **Boiling Point:** 1600.0°C

Sodium Carbonate Monohydrate — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Poly Pail	**S636-10**	308.00	----

Crystalline; Soda Crystals, $Na_2CO_3 \cdot H_2O$; **F.W.** 124; [5968-11-6]
Melting Point: 851°C; **Density:** 2.25g/mL

ChemAlert® Storage Code GRAY

Sodium Carbonate Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S262-3**	379.00	4/1089.00

Crystalline; ≥99.5 %; $Na_2CO_3 \cdot H_2O$; **F.W.** 124; [5968-11-6]
Melting Point: 851°C; **Density:** 2.25g/mL

ChemAlert® Storage Code GRAY

Sodium Carbonate

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**7160-16**	26.20	----
1L	Poly Natural	**7160-32**	37.05	----

[7732-18-5, 497-19-8]

Sodium Carbonate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS148-1**	95.10	6/442.00

[5968-11-6, 7732-18-5]; **Melting Point:** 0°C; A volumetric Standard Solution, titrated at 25°C to pH 4.1 (Methyl Orange endpoint) against NIST* Potassium Acid Phthalate.

ChemAlert® Storage Code GRAY

Sodium Chlorate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S268-500**	168.40	6/698.00

Crystalline; $NaClO_3$; **F.W.** 106.44; [7775-09-9]
Melting Point: 248° to 261°C/478.4° to 501.8°F
Density: 2.49g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1495

ChemAlert® Storage Code YELLOW

Sodium chlorate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC44641-1000**	52.50	----

99%; $ClNaO_3$; $NaClO_3$; **F.W.** 106.44; [7775-09-9]
Melting Point: 248.0°C to 261.0°C; **Density:** 2.4900g/mL

Sodium Chloride — USP/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S642-500**	97.80	----
2.5kg	Poly Bottle	**S642-212**	324.50	4/910.00
12kg	Poly Pail	**S642-12**	994.71	----
350 lb.	Poly Drum	**S642-350LB**	7568.88	----

Colorless to white crystalline granules; NaCl; **F.W.** 58.44; [7647-14-5]
Melting Point: 801°C; **Boiling Point:** 1461°C; **Density:** 2.17g/mL; This product is not intended for dialysis, parenteral or injectable use without further processing.

Sodium Chloride — USP/FCC/EP/BP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S641-500**	73.70	6/316.00
2.5kg	Poly Bottle	**S641-212**	189.20	4/520.00
350 lb.	Poly Drum	**S641-P350LB**	1330.00	----

Colorless to white crystalline granules; Salt, NaCl
F.W. 58.44; [7647-14-5]

ChemAlert® Storage Code GRAY

Sodium Chloride — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S640-500**	66.80	6/294.00
3kg	Poly Bottle	**S640-3**	172.50	4/498.25
10kg	Poly Pail	**S640-10**	192.80	----
50kg	Fiber Drum	**S640-50**	512.00	----
350 lb.	Fiber Drum	**S640-350LB**	880.00	----

Granular; Salt, NaCl; **F.W.** 58.44; [7647-14-5]
Melting Point: 801°C; **Boiling Point:** 1461°C; **Density:** 2.17g/mL

ChemAlert® Storage Code GRAY

Sodium Chloride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S271-500**	58.10	6/264.50
1kg	Poly Bottle	**S271-1**	78.30	6/345.50
3kg	Poly Bottle	**S271-3**	190.60	4/598.50
10kg	Poly Pail	**S271-10**	277.50	----
50kg	Fiber Drum	**S271-50**	533.00	----
350 lb.	Fiber Drum	**S271-350LB**	890.00	----

Crystalline; ≥99.0 %; Salt, NaCl; **F.W.** 58.44; [7647-14-5]
Melting Point: 801°C; **Boiling Point:** 1461°C; **Density:** 2.17g/mL

ChemAlert® Storage Code GRAY

Sodium Chloride — Biological, Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S671-500**	61.90	6/279.76
3kg	Poly Bottle	**S671-3**	228.50	4/660.00
10kg	Poly Pail	**S671-10**	557.50	----

Crystalline; ≥99.0 %; Salt, NaCl; **F.W.** 58.44; [7647-14-5]
Melting Point: 801°C; **Boiling Point:** 1461°C; **Density:** 2.17g/mL

ChemAlert® Storage Code GRAY

Sodium chloride — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42429-5000**	43.70	262.20
1kg	Plastic Bottle	**AC42429-0010**	62.70	----

99+%; ClNa; NaCl; **F.W.** 58.44; [7647-14-5]; **Melting Point:** 801.0°C
Boiling Point: 1461.0°C

Fisher Scientific

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Prices subject to change.

Sodium Chloride Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**7213-16**	73.20	----

[7732-18-5, 7647-14-5]

Sodium Chloride Standard

Quantity	Packaging	Cat.No.	Each	Case of
20L	Cubitainer	**721309-5**	37.90	----

Clear, colorless liquid; [7732-18-5, 7647-14-5]; **Boiling Point:** Approx. 100.1

Sodium Chloride

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**7210-16**	21.15	----
1L	Poly Natural	**7210-32**	27.05	----
4L	Poly Natural	**7210-1**	42.35	----
10L	Cubitainer	**7210-25**	96.70	----
20L	Cubitainer	**7210-5**	138.10	----

Suitable for use as blood bank saline.

Sodium Cyanide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S284I-100**	65.96	----
500g	Glass Bottle	**S284I-500**	179.70	----

Granular; NaCN; **F.W.** 49.01; [143-33-9]
DOT Class 6.1: Poison; **UN** 1689

ChemAlert® Storage Code BLUE

Sodium cyanoborohydride

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle packed in tin can	**AC16855-0100**	46.80	----
50g	Glass Bottle	**AC16855-0500**	148.30	----

Reduction reagent; 95%; Sodium cyanotrihydroborate, CH_3BNNa
$NaBH_3CN$; **F.W.** 62.84; [25895-60-7]; **Melting Point:** > 242.0°C; **UN** 3134

Sodium Dichromate Dihydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S234-500**	275.34	6/1172.50
3kg	Poly Bottle	**S234-3**	2686.70	----
10kg	Poly Pail	**S234-10**	2343.65	----

Granular; $Na_2Cr_2O_7 \cdot 2H_2O$; **F.W.** 298; [7789-12-0]
Melting Point: 357°C; **Boiling Point:** 400°C; **Density:** 2.35g/mL
DOT Class 5.1: Oxidizer; **UN** 1479

ChemAlert® Storage Code YELLOW

Sodium Dodecyl Sulfate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**O2674-25**	128.20	6/535.00

95 to 105 %; Sodium Lauryl Sulfate, SDS,
Sulfuric Acid Monododecylester Sodium Salt, Irium, $C_{12}H_{25}NaO_4S$
$CH_3(CH_2)_{11}OSO_3Na$; **F.W.** 288.38; [151-21-3]
Melting Point: 204° to 207°C; **Flash Point:** 100°C/212°F
DOT Class 4.1: Flammable Solid; **UN** 1325; Suitable for use in electrophoresis and HPLC.

ChemAlert® Storage Code RED

Sodium Fluoride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**S299-100**	134.00	6/589.50
500g	Poly Bottle	**S299-500**	295.50	6/1271.00
3kg	Poly Bottle	**S299-3**	1111.00	4/3160.00

Powder; ≥99 %; NaF; **F.W.** 41.99; [7681-49-4]
Melting Point: 993°C; **Boiling Point:** 1704°C; **Density:** 2.78g/mL
DOT Class 6.1: Poison; **UN** 1690

ChemAlert® Storage Code BLUE

Sodium hydride, 60% dispersion in mineral oil

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2kg	Plastic bag in resealable tin can	**AC33214-0020**	234.60	----

Adsorbent, Reduction reagent; HNa; NaH; **F.W.** 24.00
[7646-69-7, 8042-47-5]; **Melting Point:** 800.0°C; **Density:** 1.2000g/mL
UN 1427

Sodium Hydrosulfite — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S310-500**	100.20	6/449.50

Powder; Sodium Dithionite, $Na_2O_4S_2$; **F.W.** 174.10; [7775-14-6]
Melting Point: 55°C; **Density:** 1.4g/mL
DOT Class 4.2: Spontaneously Combustible; **UN** 1384

ChemAlert® Storage Code RED

Sodium Hydroxide — NF/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Poly Bottle	**S392-212**	331.00	----
12kg	Poly Pail	**S392-12**	1009.00	----
50kg	Poly Drum	**S392-50**	581.05	----

Granular; Lye, Caustic Soda, NaOH; **F.W.** 40.00
[1310-73-2]; **DOT Class 8**: Corrosive; **UN** 1823

CAUSTIC

ChemAlert® Storage Code WHITE

Sodium Hydroxide — NF/EP/BP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S399-500**	110.00	6/456.00
2.5kg	Poly Bottle	**S399-212**	313.00	4/870.50

NaOH; **F.W.** 40; [1310-73-2, 497-19-8]
Melting Point: 318°C; **Boiling Point:** 1390°C
Density: 2.13g/mL; **DOT Class 8**: Corrosive; **UN** 1824

CAUSTIC

Sodium Hydroxide — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S320-500**	100.70	6/456.00
1kg	Poly Bottle	**S320-1**	164.90	6/725.00
3kg	Poly Bottle	**S320-3**	323.50	4/908.50
10kg	Poly Pail	**S320-10**	526.50	----
50kg	Fiber Drum	**S320-50**	1312.00	----

Pellets; Caustic Soda, NaOH; **F.W.** 40
[1310-73-2, 497-19-8]; **Melting Point:** 318°C
Boiling Point: 1390°C; **Density:** 2.13g/mL
DOT Class 8: Corrosive; **UN** 1823

CAUSTIC

ChemAlert® Storage Code WHITE

Sodium Hydroxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**S318-100**	51.80	6/228.50
500g	Poly Bottle	**S318-500**	94.50	6/423.82
1kg	Poly Bottle	**S318-1**	153.40	6/664.50
3kg	Poly Bottle	**S318-3**	258.50	4/822.50
5kg	Poly Pail	**S318-5**	365.50	----
10kg	Poly Pail	**S318-10**	440.00	----
50kg	Fiber Drum	**S318-50**	1076.00	----

Pellets; ≥97.0 %; Caustic Soda, NaOH; **F.W.** 40
[1310-73-2, 497-19-8]; **Melting Point:** 318°C
Boiling Point: 1390°C; **Density:** 2.13g/mL
DOT Class 8: Corrosive; **UN** 1823

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium hydroxide — Pure

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bottle	**AC44728-0050**	47.90	----

Caustic soda, HNaO; NaOH; **F.W.** 40.00; [1310-73-2]
Melting Point: 318.0°C; **Boiling Point:** 1390.0°C; **n:** 1.4730 to 1.4750

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S612-3**	211.00	4/619.00
50kg	Fiber Drum	**S612-50**	805.51	----

Beads; Caustic Soda, NaOH; **F.W.** 40
[1310-73-2, 497-19-8]; **Melting Point:** 318°C
Boiling Point: 1390°C; **Density:** 2.13g/mL
DOT Class 8: Corrosive; **UN** 1823

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S613-3**	225.50	4/660.50
10kg	Poly Pail	**S613-10**	371.50	----
50kg	Fiber Drum	**S613-50**	1353.00	----

Beads; Caustic Soda, NaOH; **F.W.** 40
[1310-73-2, 497-19-8]; **Melting Point:** 318°C
Boiling Point: 1390°C; **Density:** 2.13g/mL
DOT Class 8: Corrosive; **UN** 1823; For nitrogen determinations.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium hydroxide — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42433-5000**	46.90	281.40
2.5kg	Plastic Bottle	**AC42433-0025**	109.50	438.00

97+%; Caustic soda, HNaO; NaOH; **F.W.** 40.00; [1310-73-2]
Melting Point: 318.0°C; **Boiling Point:** 1390.0°C; **n:** 1.4730 to 1.4750
UN 1823

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SS254-500**	114.70	6/510.00
1L	Poly Bottle	**SS254-1**	145.60	6/654.50
4L	Poly Bottle	**SS254-4**	264.55	4/827.12
20L	Poly Pail	**SS254-20**	853.00	----
200L	Poly Drum	**SS254-200**	3220.00	----

Caustic Soda Solution, [1310-73-2, 7732-18-5]
Melting Point: 5° to 10.6°C/41° to 51.1°F
Boiling Point: 141.7°C; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 1824

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide Solution

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SS410-4**	168.80	4/499.50
20L	Poly Pail	**SS410-20**	535.00	----

Caustic Soda Solution, [1310-73-2, 7732-18-5]
Melting Point: 5° to 10.6°C/41° to 51.1°F
Boiling Point: 141.7°C; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 1824; For Kjeldahl nitrogen determinations.
Suitable for AOAC.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium hydroxide — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Plastic Bottle	**AC25986-0025**	83.40	----

Caustic soda, HNaO; NaOH; **F.W.** 40.00; [1310-73-2, 7732-18-5]
Melting Point: 12.0°C; **Boiling Point:** 145.0°C; **Density:** 1.5000g/mL
UN 1824

Sodium Hydroxide Solution

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SS411-4**	164.30	4/492.50
10L	PolyPac	**SS411-10**	267.50	----

Caustic Soda Solution, [1310-73-2, 7732-18-5]
Melting Point: 5° to 10.6°C/41° to 51.1°F
Boiling Point: 141.7°C; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 1824; For Kjeldahl nitrogen determinations.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide Solution

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**7280-1**	58.70	----
20L	Cubitainer	**7280-5**	179.60	----

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**7274-32**	68.80	----
4L	Poly Natural	**7274-1**	98.30	----
20L	Cubitainer	**7274-5**	218.36	----

[7732-18-5, 1310-73-2]

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Sodium Hydroxide 10N Concentrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SS267**	78.60	6/351.50

Concentrate; Caustic Soda Solution, NaOH [1310-73-2, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; **DOT Class 8**: Corrosive; **UN** 1824
A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.
Each bottle contains exact amount of 10N concentrate required to make 1 liter of 1N or 10 liters of 0.1N (N/10) solution.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS255-1**	78.30	6/358.00
4L	Poly Bottle	**SS255-4**	157.80	4/542.50
20L	Poly Pail	**SS255-20**	331.00	----

Caustic Soda Solution, NaOH; [1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1824; For Kjeldahl nitrogen determinations.
A volumetric Standard Solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST** Potassium Acid Phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**7470-32**	54.20	----
4L	Poly Natural	**7470-1**	107.90	----
20L	Cubitainer	**7470-5**	318.50	----

[7732-18-5, 1310-73-2]

Sodium Hydroxide Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SS263-500**	85.80	6/382.50

Caustic Soda Solution, NaOH; [1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1824

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SS256-500**	56.90	6/261.00

Caustic Soda Solution, NaOH; [1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS264-1**	69.70	6/309.00

Caustic Soda Solution, NaOH; [1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide 1N Concentrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SS277**	77.20	6/346.92

Concentrate; Caustic Soda Solution, [1310-73-2, 7732-18-5]; **Melting Point:** >0°C
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.
Each bottle contains exact amount of 1N concentrate required to make 1 liter of 0.1N (N/10) solution.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS266-1**	49.05	6/220.30
4L	Poly Bottle	**SS266-4**	102.70	4/309.50
20L	PolyPac	**SS266-20**	280.00	----

Caustic Soda Solution, [1310-73-2, 7732-18-5]
Melting Point: >0°C; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC12426-0010**	27.55	----

Volumetric standard solution; Colorless liquid; Caustic soda, HNaO NaOH; **F.W.** 40; [1310-73-2, 7732-18-5]; **Boiling Point:** >100°C
Density: 1.04g/cm^3

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS270-1**	58.10	6/261.77
4L	Poly Bottle	**SS270-4**	118.30	4/358.50
20L	PolyPac	**SS270-20**	291.50	----

Caustic Soda Solution, [1310-73-2, 7732-18-5];
Melting Point: >0°C; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert® Storage Code WHITE

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**7375-1**	71.90	----
20L	Cubitainer	**7375-5**	173.10	----

Suitable For Crude Fiber Analysis of Food and Feed; Clear, colorless liquid; [7732-18-5, 1310-73-2]

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**7374-1**	63.80	----

[1310-73-2 (Sodium Hydroxide), 7732-18-5 (Water, deionized)]

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS272-1**	66.10	6/299.50
20L	PolyPac	**SS272-20**	353.50	----

Caustic Soda Solution, NaOH; [1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert* Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS274-1**	68.50	6/320.00
4L	Poly Bottle	**SS274-4**	153.80	4/453.00

Caustic Soda Solution, NaOH; [1310-73-2, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert* Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS276-1**	46.00	6/205.50
4L	Poly Bottle	**SS276-4**	95.10	4/286.50
20L	PolyPac	**SS276-20**	272.00	----

Caustic Soda Solution, [1310-73-2, 7732-18-5]
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert* Storage Code WHITE

Sodium hydroxide

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC12419-0010**	23.80	----

Volumetric standard solution; Caustic soda, HNaO; NaOH
F.W. 40.00; [1310-73-2, 7732-18-5]; **Density:** 1.0000g/mL

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS278-1**	58.80	6/262.58

Caustic Soda Solution, [1310-73-2, 7732-18-5]
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert* Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS282-1**	62.60	6/289.50
4L	Poly Bottle	**SS282-4**	142.30	4/422.56

Caustic Soda Solution, [1310-73-2, 7732-18-5]
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert* Storage Code WHITE

Sodium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS284-1**	78.30	6/347.50
4L	Poly Bottle	**SS284-4**	146.80	4/473.00

Caustic Soda Solution, [1310-73-2, 7732-18-5]
DOT Class 8: Corrosive; **UN** 1824; A volumetric standard solution, titrated at 25°C to pH 8.6 (phenolphthalein endpoint) against NIST* potassium acid phthalate.

CAUSTIC — ChemAlert* Storage Code WHITE

Sodium Hypochlorite Solution — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS290-1**	78.10	6/359.00
4L	Poly Bottle	**SS290-4**	201.00	4/578.28

NaOCl; **F.W.** 74.44; [7681-52-9, 7732-18-5]
Melting Point: 0°C; **Density:** 1.1g/mL; **DOT Class 8**: Corrosive
UN 1791

ChemAlert* Storage Code WHITE

Sodium hypochlorite

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Plastic Bottle	**AC41955-0025**	162.20	----

Oxidation reagent; ClNaO; NaOCl; **F.W.** 74.44; [7681-52-9, 7732-18-5]
Density: 1.0830g/mL; **UN** 1791

Sodium Iodate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S322-100**	119.70	6/498.50

Powder; $INaO_3$; **F.W.** 197.89; [7681-55-2]
Density: 4.28g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1479

ChemAlert* Storage Code YELLOW

Sodium Iodide — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S473-500**	899.50	6/3800.00

Granular; 99.0 to 101.5 %; INa; **F.W.** 149.89; [7681-82-5]
Melting Point: 661°C; **Boiling Point:** 1300°C; **Density:** 3.67g/mL

ChemAlert* Storage Code GRAY

Sodium Iodide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S324-100**	123.20	6/532.00
500g	Glass Bottle	**S324-500**	428.50	6/1877.00

Crystalline; INa; **F.W.** 149.89; [7681-82-5]; **Melting Point:** 661°C
Boiling Point: 1300°C; **Density:** 3.67g/mL

ChemAlert* Storage Code GRAY

Sodium Lactate

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**S326-500**	189.80	6/789.00

Syrup; Lactic Acid Sodium Salt, $C_3H_5NaO_3$; $CH_3CH(OH)COONa$
F.W. 112.06; [72-17-3, 7732-18-5]; **Melting Point:** 17.22°C
Boiling Point: 140.00°C; **Density:** 1.3g/mL
Recommended Storage: Refrigerate

ChemAlert* Storage Code GRAY

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Sodium Lauryl Sulfate — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S529-500**	143.00	4/402.00
3kg	Poly Pail	**S529-3**	596.00	----

Powder; Sodium Dodecyl Sulfate, SDS, Dodecylsulfuric Acid Sodium Salt, Duponol* C Dry, $C_{12}H_{25}NaO_4S$; $CH_3(CH_2)_{10}CH_2OSO_3Na$; [151-21-3]; **Melting Point:** 204° to 207°C; **Flash Point:** 100°C/212°F
DOT Class 4.1: Flammable Solid; **UN** 1325

ChemAlert® Storage Code: RED

Sodium Metabisulfite — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S244-500**	98.30	6/432.50
3kg	Glass Bottle	**S244-3**	300.88	4/854.87

Powder; ≥97 %; Sodium Pyrosulfite, Disodium Disulfite, $Na_2S_2O_5$
F.W. 190.11; [7681-57-4]; **Melting Point:** 150°C; **Density:** 1.4g/mL

ChemAlert® Storage Code: GRAY

Sodium meta-Silicate Pentahydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass Bottle	**S407-3**	140.00	4/406.50

Crystalline; Sodium Silicate, $Na_2SiO_3{\cdot}5H_2O$; **F.W.** 212.15
[10213-79-3]; **Melting Point:** 72°C; **Density:** 1.75g/mL
DOT Class 8: Corrosive; **UN** 3253

ChemAlert® Storage Code: WHITE

Sodium methoxide — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC41960-0025**	501.30	----

Sodium methylate, CH_3NaO; CH_3ONa; **F.W.** 54.02; [124-41-4, 67-56-1]
Melting Point: –98°C; **Flash Point:** 11°C; **Boiling Point:** 65°C (760mm Hg)
Density: 0.8g/mL; **UN** 1992

Sodium Molybdate Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S336-500**	553.50	6/2450.00
3kg	Glass Bottle	**S336-3**	1528.00	4/4320.00

Crystalline Powder; 99.5 to 103.0 %; $Na_2MoO_4{\cdot}2H_2O$
F.W. 241.95; [10102-40-6]; **Density:** 3.28g/mL

ChemAlert® Storage Code: GRAY

Sodium molybdate(VI) dihydrate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Plastic Bottle	**AC44636-0250**	31.40	----

$MoNa_2O_4{\cdot}2H_2O$; $Na_2MoO_4{\cdot}2H_2O$; **F.W.** 241.95
[10102-40-6]; **Density:** 3.2800g/mL

Sodium Nitrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S343-500**	193.30	6/849.00
3kg	Poly Bottle	**S343-3**	719.50	4/2090.00

Crystalline; ≥99 %; Chili Saltpeter, Soda Niter, Nitric Acid Sodium Salt, $NNaO_3$; **F.W.** 84.99; [7631-99-4]
Melting Point: 306°C; **Boiling Point:** 380°C; **Density:** 2.26g/mL;
DOT Class 5.1: Oxidizer; **UN** 1498

ChemAlert® Storage Code: YELLOW

Sodium Nitrate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass Bottle	**S342-3**	289.00	4/839.50

Granular; $NNaO_3$; **F.W.** 84.99; [7631-99-4]
Melting Point: 306°C; **Boiling Point:** 380°C; **Density:** 2.26g/mL
DOT Class 5.1: Oxidizer; **UN** 1498

ChemAlert® Storage Code: YELLOW

Sodium nitrate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42434-5000**	59.20	----

99+%; $NNaO_3$; $NaNO_3$; **F.W.** 84.99; [7631-99-4]
Melting Point: 306.0°C; **Boiling Point:** 380.0°C; **UN** 1498

Sodium Nitroferricyanide Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S350-100**	261.50	6/913.50

Crystalline; 99.0 to 102.0 %; Sodium Nitroprusside Dihydrate, $C_5FeN_6O{\cdot}Na_2{\cdot}2H_2O$; $Na_2Fe(CN)_5(NO){\cdot}2H_2O$; **F.W.** 297.95; [13755-38-9]
Density: 1.72g/mL; **DOT Class 6.1**: Poison; **UN** 2811

ChemAlert® Storage Code: BLUE

Sodium Perchlorate Monohydrate — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S490-100**	81.50	6/359.00
500g	Glass Bottle	**S490-500**	205.50	6/844.85

$NaO_4Cl{\cdot}H_{20}$; **F.W.** 140.46; [7791-07-3]; **Melting Point:** 482°C
Density: 2.02g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1502

ChemAlert® Storage Code: YELLOW

Sodium Peroxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Tin Can	**S363-500**	600.00	6/2580.00

≥93.0 %; Na_2O_2; **F.W.** 77.98; [1313-60-6, 1310-73-2]
Melting Point: 460°C; **Density:** 2.8g/mL; **DOT Class 5.1**: Oxidizer
UN 1504; Suitable for use in calorimetry.

ChemAlert® Storage Code: YELLOW

Sodium periodate — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5Kg	Plastic Bottle	**AC19838-0025**	1188.50	----

Oxidation reagent; 99%; $INaO_4$; $NaIO_4$; **F.W.** 213.89; [7790-28-5]
Melting Point: 300.0°C

Sodium periodate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC41961-0025**	1694.00	----

Oxidation reagent; 99.8+%; $INaO_4$; $NaIO_4$
F.W. 213.89; [7790-28-5]; **Melting Point:** 300.0°C; **UN** 3087

Sodium Persulfate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O6114-500**	210.00	6/974.00
1kg	Poly Bottle	**O6114-1**	311.92	6/1382.82

White Crystalline Solid; ≥98.0 %
Sodium Peroxydisulfate, $Na_2S_2O_8$; **F.W.** 238.09; [7775-27-1]
Melting Point: 100°C; **Density:** 2.6g/mL; **DOT Class 5.1**: Oxidizer
UN 1505

ChemAlert® Storage Code YELLOW

Sodium persulfate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC20202-5000**	28.60	----
1kg	Plastic Bottle	**AC20202-0010**	54.80	----
5kg	Plastic Bottle	**AC20202-0050**	153.70	----

Oxidation reagent; 98+%; Sodium peroxydisulfate, $Na_2O_8S_2$; $Na_2S_2O_8$
F.W. 238.09; [7775-27-1]; **Melting Point:** 100.0°C; **UN** 1505

Sodium Phosphate Dibasic Anhydrous — USP/FCC/EP

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Poly Bottle	**S379-212**	736.00	----
12kg	Poly Pail	**S379-12**	2219.44	----

Powder; Monohydrogen Sodium Phosphate, Disodium Hydrogen Phosphate, Na_2HPO_4; **F.W.** 141.96; [7558-79-4]

ChemAlert® Storage Code GRAY

Sodium Phosphate Dibasic Anhydrous — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S375-500**	153.40	6/683.00
2.5kg	Poly Bottle	**S375-212**	572.00	4/1606.00
12kg	Poly Pail	**S375-12**	1450.00	----

Granular; Monohydrogen Sodium Phosphate, Disodium Hydrogen Phosphate, Na_2HPO_4; **F.W.** 141.96; [7558-79-4]
Melting Point: 47.78°C; **Density:** 1.67g/mL

ChemAlert® Storage Code GRAY

Sodium Phosphate Dibasic Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S374-500**	143.60	6/604.50
1kg	Poly Bottle	**S374-1**	240.50	6/1054.00
3kg	Glass Bottle	**S374-3**	619.50	4/1807.00
50kg	Fiber Drum	**S374-50**	4220.00	----
250 lb.	Fiber Drum	**S374-250LB**	6410.00	----

Granular or Powder; ≥99 %; Monohydrogen Sodium Phosphate, Disodium Hydrogen Phosphate, Na_2HPO_4
F.W. 141.96; [7558-79-4]; **Melting Point:** 47.78°C; **Density:** 1.67g/mL

ChemAlert® Storage Code GRAY

Sodium Phosphate Dibasic Anhydrous — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S393-3**	307.50	4/894.50

Powder; Monohydrogen Sodium Phosphate, Disodium Hydrogen Phosphate, Na_2HPO_4; **F.W.** 141.96; [7558-79-4]
Melting Point: 47.78°C; **Density:** 1.67g/mL

ChemAlert® Storage Code GRAY

Sodium phosphate, dibasic — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC42437-5000**	68.80	----

pH buffer; 99+%; Disodium hydrogen phosphate, HNa_2O_4P; Na_2HPO_4
F.W. 141.96; [7558-79-4];

Sodium Phosphate Dibasic Dihydrate — USP/FCC/EP/BP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S472-500**	183.60	6/737.50
2.5kg	Poly Bottle	**S472-212**	603.00	4/1648.00

White Crystals or Granules; $Na_2HPO_4{\cdot}2H_2O$; $Na_2HPO_4{\cdot}2H_2O$
F.W. 177.99; [10028-24-7]

ChemAlert® Storage Code GRAY

Sodium Phosphate Dibasic Heptahydrate — USP

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S471-3**	611.50	4/1719.00

Granular; Monohydrogen Sodium Phosphate, Disodium Hydrogen Phosphate, $Hna_2O_4P{\cdot}7H_2O$; **F.W.** 268.07; [7782-85-6]
Melting Point: 48°C; **Density:** 1.68g/mL

ChemAlert® Storage Code GRAY

Sodium Phosphate Dibasic Heptahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S373-500**	113.70	6/488.50
3kg	Poly Bottle	**S373-3**	515.00	4/1505.00

Crystalline; 98 to 102 %; Monohydrogen Sodium Phosphate, Disodium Hydrogen Phosphate, $Hna_2O_4P{\cdot}7H_2O$; **F.W.** 268.07 [7782-85-6]; **Melting Point:** 48°C; **Density:** 1.68g/mL

ChemAlert® Storage Code GRAY

Sodium Phosphate Monobasic Dihydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S381-500**	202.00	6/874.50
3kg	Poly Bottle	**S381-3**	844.50	4/2480.00

Crystalline; ≥99 %; Monosodium Orthophosphate, Monosodium Phosphate, Sodium Acid Phosphate, Sodium Biphosphate, Sodium Dihydrogen Phosphate, $H_2NaO_4P{\cdot}2H_2O$; **F.W.** 156.01 [13472-35-0]; **Melting Point:** 225°C

ChemAlert® Storage Code GRAY

Sodium Phosphate Monobasic Monohydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S468-500**	170.90	6/746.00

Crystalline and Granular; Monosodium Orthophosphate, Sodium Acid Phosphate, Sodium Biphosphate, Sodium Dihydrogen Phosphate, $H_2O_4PNa{\cdot}H_2O$; **F.W.** 137.99; [10049-21-5]
Melting Point: 100°C; **Boiling Point:** 203.89°C; **Density:** 2.04g/mL

ChemAlert® Storage Code GRAY

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Sodium Phosphate Monobasic Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S369-500**	219.00	6/945.00
1kg	Poly Bottle	**S369-1**	355.50	6/1538.00
3kg	Poly Bottle	**S369-3**	977.00	4/2820.00
50kg	Fiber Drum	**S369-50**	7835.71	----

Crystalline; 98 to 102 %; Monosodium Orthophosphate, Monosodium Phosphate, Sodium Acid Phosphate, Sodium Biphosphate, Sodium Dihydrogen Phosphate, $H_2O_4PNa{\cdot}H_2O$ **F.W.** 137.99; [10049-21-5]; **Melting Point:** 100°C; **Boiling Point:** 203.89°C **Density:** 2.04g/mL

ChemAlert® Storage Code GRAY

Sodium Phosphate Tribasic Dodecahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S377-500**	137.90	6/607.00
3kg	Poly Bottle	**S377-3**	599.50	4/1757.00
50kg	Fiber Drum	**S377-50**	3700.00	----

Crystalline; 98 to 102 %; Phosporic Acid Trisodium Salt, Trisodium Phosphate, $Na_3PO_4{\cdot}12H_2O$; **F.W.** 380.12; [10101-89-0]
Melting Point: 75.00°C; **Density:** 1.62g/mL; This salt may lose some water of crystallization, which will result in an assay of more than 100% $Na_3PO_4{\cdot}12H_2O$.
This loss does not affect the determination of the relative amount of free alkali present.

ChemAlert® Storage Code GRAY

Sodium Phosphate Tribasic Dodecahydrate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S376-3**	260.86	4/761.53
50kg	Fiber Drum	**S376-50**	2130.00	----

Granular; 99 to 122 %; Trisodium Phosphate, $Na_3PO_4{\cdot}12H_2O$ **F.W.** 380.12; [10101-89-0]; **Melting Point:** 75.00°C **Density:** 1.62g/mL

ChemAlert® Storage Code GRAY

Sodium Pyrophosphate Decahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S390-500**	141.60	6/612.50
3kg	Poly Bottle	**S390-3**	595.28	4/1709.43
10kg	Poly Pail	**S390-10**	1288.00	----

Crystalline; 99 to 103 %; Tetrasodium Pyrophosphate, $Na_4P_2O_7{\cdot}10H_2O$; **F.W.** 446.06; [13472-36-1]; **Melting Point:** 93.89°C **Boiling Point:** 93.8°C; **Density:** 1.8g/mL

ChemAlert® Storage Code GRAY

Sodium Silicate Solution — Technical

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SS338-1**	108.96	6/488.00
4L	Glass Bottle	**SS338-4**	181.50	4/535.00

Soda Water Glass,, Soluble Glass, [1344-09-8 (40%), 7732-18-5 (60%)]; **Melting Point:** –0.56°C; **Density:** 0.7 **DOT Class 8**: Corrosive; **UN** 3266

ChemAlert® Storage Code WHITE

Sodium Sulfate Anhydrous — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S429-500**	85.70	6/384.00
2.5kg	Poly Bottle	**S429-212**	266.00	4/746.50
12kg	Poly Pail	**S429-12**	692.00	----
250 lb.	Fiber Drum	**S429-250LB**	2450.00	----

Powder; Na_2SO_4; **F.W.** 142.04; [7757-82-6]
Melting Point: 884° to 888°C/1623.2° to 1630.4°F
Boiling Point: 1700°C; **Density:** 2.68g/mL

ChemAlert® Storage Code GRAY

Sodium Sulfate Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S421-500**	76.20	6/340.00
1kg	Poly Bottle	**S421-1**	106.30	6/468.00
3kg	Glass Bottle	**S421-3**	262.00	4/764.50
10kg	Poly Pail	**S421-10**	543.00	----
50kg	Fiber Drum	**S421-50**	1596.00	----
300 lb.	Fiber Drum	**S421-300LB**	2960.00	----

Granular; ≥99.0 %; Na_2SO_4; **F.W.** 142.04; [7757-82-6]
Melting Point: 884° to 888°C/1623.2° to 1630.4°F
Boiling Point: 1700°C; **Density:** 2.68g/mL

ChemAlert® Storage Code GRAY

Sodium Sulfate Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S415-500**	72.90	6/320.50
1kg	Poly Bottle	**S415-1**	113.90	6/513.00
2.5kg	Glass Bottle	**S415-212**	222.50	4/708.00
10kg	Poly Pail	**S415-10S**	468.50	----
200 lb.	Fiber Drum	**S415-200LB**	1664.00	----

Granular, 10-60 Mesh; Suitable for pesticide residue analysis ≥99.0 %; Na_2SO_4; **F.W.** 142.04; [7757-82-6]
Melting Point: 884° to 888°C/1623.2° to 1630.4°F
Boiling Point: 1700°C; **Density:** 2.68g/mL

ChemAlert® Storage Code GRAY

Sodium Sulfate Anhydrous — Low Nitrogen

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Glass Bottle	**S420-3**	136.10	4/400.00
10kg	Poly Pail	**S420-10**	296.50	----

Na_2SO_4; **F.W.** 142.04; [7757-82-6]
Melting Point: 884° to 888°C/1623.2° to 1630.4°F
Boiling Point: 1700°C; **Density:** 2.68g/mL; Suitable for Kjeldahl analysis.

ChemAlert® Storage Code GRAY

Sodium sulfate — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Plastic Bottle	**AC35425-0010**	69.30	----

99+%; Na_2O_4S; Na_2SO_4; **F.W.** 142.04; [7757-82-6]
Melting Point: 884.0°C; **Boiling Point:** > 1700.0°C

Sodium sulfate — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC21875-5000**	55.60	----

99+%; Na_2O_4S; Na_2SO_4; **F.W.** 142.04; [7757-82-6]
Melting Point: 884.0°C; **Boiling Point:** > 1700.0°C

Sodium Sulfate Decahydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S419-500**	99.20	6/448.00

Crystalline; $Na_2SO_4 \cdot 10H_2O$; **F.W.** 322.19; [7727-73-3]
Melting Point: 32.4°C; **Density:** 1.46g/mL; This chemical is deliquescent. Keep refrigerated or store in a cool place.

ChemAlert® Storage Code GRAY

Sodium Sulfide — Technical

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**S426-212**	226.06	4/655.13

Flakes; Na_2S; **F.W.** 78.04; [1313-82-2, 7732-18-5]
Melting Point: 91.67°C; **Boiling Point:** 174.44°C; **Density:** 1.86g/mL
DOT Class 8: Corrosive; **UN** 1849

ChemAlert® Storage Code WHITE

Sodium Sulfite Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S430-500**	70.60	6/309.50
3kg	Glass Bottle	**S430-3**	243.50	4/714.50
10kg	Poly Pail	**S430-10**	443.50	----

Crystalline; ≥98 %; Na_2O_3S; **F.W.** 126.04; [7757-83-7]
Melting Point: >500°C (decom); **Density:** 2.63g/mL

ChemAlert® Storage Code GRAY

Sodium Sulfite Anhydrous — Low Phosphate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S447-500**	78.20	6/341.00

Crystalline; Also meets ACS specifications; ≥98 %; Na_2O_3S
F.W. 126.04; [7757-83-7]; **Melting Point:** >500°C (decom)
Density: 2.63g/mL

ChemAlert® Storage Code GRAY

Sodium Sulfide Nonahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S425-500**	123.90	6/527.50
2.5kg	Glass Bottle	**S425-212**	679.00	4/1966.00

Crystalline; ≥98.0 %; Sodium Monosulfide, $Na_2S \cdot 9H_2O$
F.W. 240.18; [1313-84-4]; **Melting Point:** 50°C; **Boiling Point:** 920°C
Density: 1.43g/mL; **DOT Class 8**: Corrosive; **UN** 1849
This chemical is deliquescent.

ChemAlert® Storage Code WHITE

Sodium Tetraborate Decahydrate — NF

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S246-500**	92.90	6/400.00
2.5kg	Poly Pail	**S246-212**	207.50	----
12kg	Fiber Drum	**S246-12**	873.00	----

Powder or Granular; 99 to 105 %; Sodium Biborate, Sodium Pyroborate, Borax, $B4Na_2O_7 \cdot 10H_2O$; **F.W.** 381.37 [1303-96-4]; **Melting Point:** 741°C; **Boiling Point:** 1575°C
Density: 1.73g/mL

ChemAlert® Storage Code GRAY

Sodium Tetraborate Decahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass	**S249-500**	109.70	6/454.92

Powder; 99.5 to 105.0 %; Sodium Biborate, Sodium Pyroborate, Borax, $B4Na_2O_7 \cdot 10H_2O$; **F.W.** 381.37; [1303-96-4]
Melting Point: 741°C; **Boiling Point:** 1575°C; **Density:** 1.73g/mL

ChemAlert® Storage Code GRAY

Sodium Tetraborate Decahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass	**S248-500**	89.60	6/420.50
3kg	Glass	**S248-3**	400.00	4/1183.00
10kg	Poly Pail	**S248-10**	755.50	----

Crystalline; 99.5 to 105.0 %; Sodium Biborate, Sodium Pyroborate, Borax, $B4Na_2O_7 \cdot 10H_2O$; **F.W.** 381.37; [1303-96-4]
Melting Point: 741°C; **Boiling Point:** 1575°C; **Density:** 1.73g/mL

ChemAlert® Storage Code GRAY

Sodium Thiocyanate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S441-500**	226.00	6/989.50

Crystalline; ≥98 %; Sodium Rhodanate, Sodium Sulfocyanate, Thiocyanic Acid Sodium Salt, Sodium Isothiocyanate, NaSCN
F.W. 81.07; [540-72-7]; **Melting Point:** 287°C

ChemAlert® Storage Code GRAY

Sodium Thiosulfate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S474-500**	112.00	6/470.85
3kg	Poly Bottle	**S474-3**	324.00	4/883.00

Crystalline; $Na_2O_3S_2 \cdot 5H_2O$; **F.W.** 248.19; [10102-17-7]
Melting Point: 48.5°C; **Density:** 1.73g/mL
Suitable for photographic use.

ChemAlert® Storage Code GRAY

Sodium Thiosulfate Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S446-500**	124.50	6/519.00
3kg	Poly Bottle	**S446-3**	463.50	4/1342.00

≥98 %; Sodium Hyposulfite, $Na_2O_3S_2$; **F.W.** 158.11; [7772-98-7]
Melting Point: 43°C; **Density:** 1.66g/mL

ChemAlert® Storage Code GRAY

Sodium Thiosulfate Pentahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S445-500**	88.70	6/390.50
3kg	Poly Bottle	**S445-3**	363.50	4/1067.00
10kg	Poly Pail	**S445-10**	478.50	----
50kg	Fiber Drum	**S445-50**	1801.49	----

Crystalline; 99.5 to 101.0 %; $Na_2O_3S_2 \cdot 5H_2O$; **F.W.** 248.19 [10102-17-7]; **Melting Point:** 48.5°C; **Density:** 1.73g/mL

ChemAlert® Storage Code GRAY

Sodium Thiosulfate Pentahydrate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS368-1**	69.20	6/313.00
4L	Poly Bottle	**SS368-4**	92.60	4/281.50
20L	PolyPac	**SS368-20**	244.50	----

[10102-17-7, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL
Standardized at 25°C against NIST* potassium dichromate.

ChemAlert® Storage Code GRAY

Sodium thiosulfate

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC12427-0010**	27.80	----
2.5L	Plastic Bottle	**AC12427-0025**	58.80	----

Reduction reagent, Volumetric standard solution; $Na_2O_3S_2$; $Na_2S_2O_3$
F.W. 158.11; [7772-98-7, 7732-18-5]

Fisher Scientific

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Prices subject to change.

Sodium Thiosulfate Pentahydrate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS371-1**	98.90	6/435.00

[10102-17-7, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL
Standardized at 25°C against NIST* potassium dichromate.

ChemAlert* Storage Code: GRAY

Sodium Thiosulfate Pentahydrate Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS370-1**	75.70	6/333.22

[10102-17-7, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL
Standardized at 25°C against NIST* potassium dichromate.

ChemAlert* Storage Code: GRAY

Denatured Ethanol

Decon Laboratories Labs, Inc.

Quantity	Packaging	Cat.No.	Each	Case of
4 x 1 gal.	Plastic Bottle	**04-355-260**	105.20	----

Liquid; Ethyl Alcohol, [64-17-5, 67-56-1]; **Flash Point:** 52°F
Boiling Point: 147°F; **Density:** 6.61

Stannous Chloride Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**T142-100**	145.70	6/616.00
500g	Poly Bottle	**T142-500**	521.50	6/2310.00
3kg	Poly Bottle	**T142-3**	2400.00	4/6910.00

Crystalline; Suitable for mercury determination; 98 to 103 %
Tin (II) Chloride Dihydrate, $SnCl_2 \cdot 2H_2O$; **F.W.** 225.65; [10025-69-1]
Melting Point: 37° to 38°C/98.6° to 100.4°F; **Density:** 2.7g/mL
DOT Class 8: Corrosive; **UN** 1759

ChemAlert* Storage Code: WHITE

Stannous Sulfate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**T154-500**	322.00	6/1396.00

Crystalline; Tin (II) Sulfate, O_4SSn; **F.W.** 214.77
[7488-55-3]; **Melting Point:** 360°C; **Density:** 3.95g/mL

ChemAlert* Storage Code: GRAY

Starch Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS408-1**	63.90	6/284.50
4L	Poly Bottle	**SS408-4**	182.10	4/525.00

$(C_6H_{10}O_5)n$; [9005-25-8, 64-19-7, 7732-18-5]
Melting Point: 0°C; **Density:** 1g/mL; For iodometry.

ChemAlert* Storage Code: GRAY

Starch, Soluble — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S516-100**	71.40	6/314.00
500g	Glass Bottle	**S516-500**	204.00	6/881.50

Powder; $C_6H_{10}O_5x$; [9005-84-9]
Density: 1.5g/mL; For iodometry.

ChemAlert* Storage Code: GRAY

Stoddard Solvent

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**S457-4**	164.90	4/535.00

[64742-88-7]; **Flash Point:** 40°C/104°F
Boiling Point: 149°F to 185°C/300.2°F to 365°F
Density: 4.8 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1993
A petroleum distillate used for dry cleaning.

ChemAlert* Storage Code: RED

Strontium Nitrate Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S549-500**	313.00	6/1320.00

Crystalline; ≥99 %; $Sr(NO_3)_3$; $Sr(NO_3)_2$; **F.W.** 211.63; [10042-76-9]
Melting Point: 570°C; **Boiling Point:** 645°C
DOT Class 5.1: Oxidizer; **UN** 1507

ChemAlert* Storage Code: YELLOW

Succinic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A294-500**	182.40	6/762.76

Crystalline; 99.0 to 100.3 %; Butanedioic Acid,
Ethylene Dicarboxylic Acid, Amber Acid, $C_4H_6O_4$
$HOOCCH_2CH_2COOH$; **F.W.** 118.09; [110-15-6]
Melting Point: 185° to 190°C/365° to 374°F; **Flash Point:** 206°C/402.8°F
Boiling Point: 235°C; **Density:** 1.56g/mL

ChemAlert* Storage Code: GRAY

Succinic acid

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC15874-0100**	491.70	----

99%; Butanedioic acid, $C_4H_6O_4$; $HO_2CCH_2CH_2CO_2H$
F.W. 118.09; [110-15-6]; **Melting Point:** 185.0°C to 190.0°C
Flash Point: 206°C; **Boiling Point:** 235.0°C

Sulfanilamide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O4525-100**	116.30	6/504.50

Granular; ≥98 %; 4-Aminobenzenesulfonamide,
P-Anilinesulfonamide, $C_6H_8N_2O_2S$; 4-$NH_2C_6H_4SO_2NH_2$
F.W. 172.21; [63-74-1]; **Melting Point:** 163° to 167°C/325.4° to 332.6°F; **Density:** 1.08g/mL

ChemAlert* Storage Code: GRAY

Sulfur, Precipitated — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S595-500**	115.30	6/480.00

Powder; 99.5 to 100.5 %; Lac Sulfur, S; **F.W.** 32.07; [7704-34-9]
Melting Point: 113°C; **Boiling Point:** 445°C; **Density:** 2.07g/mL
DOT Class 9: Miscellaneous

ChemAlert* Storage Code: RED

Sulfur, Sublimed — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S594-500**	72.70	6/330.50

Powder; 99.5 to 100.5 %; Flowers of Sulfur, S
F.W. 32.07; [7704-34-9]; **Melting Point:** 113°C
Boiling Point: 445°C; **Density:** 2.07g/mL
DOT Class 9: Miscellaneous

ChemAlert* Storage Code: RED

Sulfuric Acid — Optima

Quantity	Packaging	Cat.No.	Each	Case of
250mL	FEP Bottle	**A468-250**	372.50	----
500mL	FEP Bottle	**A468-500**	555.00	----
1L	FEP Bottle	**A468-1**	1080.00	----
2L	FEP Bottle	**A468-2**	1520.00	----

Oil of Vitriol, H_2SO_4; **F.W.** 98.07; [7664-93-9]
DOT Class 8: Corrosive; **UN** 1830; Ideal for analysis by ICP-MS and high-resolution ICP-MS
Evaluated for 65 metals at low-level ppt concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in specially cleaned Teflon FEP for PFA bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid — TraceMetal

Quantity	Packaging	Cat.No.	Each	Case of
500mL	HDPE Bottle	**A510-P500**	88.80	----
2.5L	HDPE Bottle	**A510-P212**	206.00	----

Oil of Vitriol, H_2SO_4; **F.W.** 98.08; [7664-93-9]
DOT Class 8: Corrosive; **UN** 1830; Ideal for analysis by IC, GF or Flame AA, ICP-OES and ICP-MS
Evaluated for 65 metals at < 1 ppb concentrations. Manufactured, purified, and packaged in a Class 1000 clean room.
Packaged in non-breakable polypropylene bottles to maintain product integrity and to eliminate metal leaching from glass bottles.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass	**A484-212**	222.00	6/918.00

95.0 to 98.0 %; Oil of Vitriol, H_2SO_4; **F.W.** 98.08 [7664-93-9]; **Melting Point:** 10°C
Boiling Point: 290° to 338°C/554° to 640.4°F
Density: 3.38 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 1830

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid — Certified ACS Plus

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A300-500**	82.00	6/275.00
500mL	Glass Bottle	**A300S-500**	94.40	6/314.00
6 x 2.5L	Flint Glass/Safe-Cote	**A300-S212**	459.50	----
2.5L	Glass Bottle	**A300-212**	134.40	----
2.5L	Glass Bottle	**A300C-212**	416.00	----
2.5L	Safe-Cote Bottle	**A300S-I212**	156.90	----
6.5 gal.	Glass Bottle	**A300-612GAL**	681.00	----
225 lb.	Poly Drum	**A300-225LB**	1146.00	----
700 lb.	Poly Drum	**A300-700LB**	3170.00	----

95.0 to 98.0 w/w %; H_2SO_4; **F.W.** 98.08; [7664-93-9]
Melting Point: 10°C; **Boiling Point:** 290° to 338°C/554° to 640.4°F; **Density:** 3.38 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 1830; Suitable for cholesterol determination in regular and "N„ methods.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid — Technical

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**A298-212**	83.70	6/279.50

93 to 98 %; Oil of Vitriol, H_2SO_4; **F.W.** 98.08; [7664-93-9]
Melting Point: 10°C;
Boiling Point: 290° to 338°C/554° to 640.4°F
Density: 3.38 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 1830

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**SA174-212**	149.40	6/502.00
4L	Poly Bottle	**SA174-4**	168.80	4/382.50

90.5 to 93.0 %; Oil of Vitriol, H_2SO_4; **F.W.** 98.08 [7664-93-9]; **Melting Point:** 10°C
Boiling Point: 290° to 338°C/554° to 640.4°F
Density: 3.38 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 1830

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SA176-4**	184.30	4/407.14

Gerber; 91.0 to 92.25 %; Oil of Vitriol, H_2SO_4; [7664-93-9]
Melting Point: 10°C; **Boiling Point:** 290° to 338°C/554° to 640.4°F; **Density:** 3.38 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 1830

ACID — ChemAlert® Storage Code WHITE

Sulfuric acid — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC13361-0010**	49.55	164.50
2.5L	Glass Bottle	**AC13361-0025**	93.70	466.47

96%; H_2O_4S; H_2SO_4; **F.W.** 98.07; [7664-93-9]; **Melting Point:** 10.0°C
Boiling Point: 290.0°C; **Density:** 1.8300g/mL; **UN** 1830

Sulfuric acid — For analysis

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC12464-0100**	293.80	----

H_2O_4S; H_2SO_4; **F.W.** 98.07; [7664-93-9]; **Melting Point:** 10.0°C
Boiling Point: 290.0°C; **Density:** 1.8300g/mL

Sulfuric acid — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC42452-5000**	44.90	269.40
2.5L	Glass Bottle	**AC42452-0025**	96.50	579.00

H_2O_4S; H_2SO_4; **F.W.** 98.07; [7664-93-9]; **Melting Point:** 10.0°C
Boiling Point: 290.0°C; **Density:** 1.8300g/mL; **UN** 1830

Sulfuric Acid — Textile

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SA170-4**	92.00	4/205.50

69.0 to 71.0 %; H_2SO_4; **F.W.** 98.08; [7732-18-5, 7664-93-9]
Melting Point: 10°C; **Boiling Point:** 290° to 338°C
Density: 1.6g/mL; **DOT Class 8**: Corrosive; **UN** 1830

ACID — ChemAlert® Storage Code WHITE

Sulfuric acid — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC41997-5000**	150.50	----

Oleum, $H_2O_4S{\cdot}SO_3$; $H_2SO_4{\cdot}SO_3$; **F.W.** 178.14; [8014-95-7, 7446-11-9]
Melting Point: 2.0°C; **Boiling Point:** 138.0°C; **Density:** 1.9200g/mL
UN 1831

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Sulfuric Acid — Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**8165-1**	106.30	----

[7732-18-5, 7664-93-9]

Sulfuric Acid Concentrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**SA213**	78.40	6/365.00

Concentrate; Oil of Vitriol, H_2SO_4; [7664-93-9, 7732-18-5]
Melting Point: 11°C; **Boiling Point:** 105° to 325°C
Density: 1.1g/mL; **DOT Class 8**: Corrosive; **UN** 2796
Each bottle contains exact amount of 10N concentrate required to make 1 liter of 1N or 10 liters of 0.1N (N/10) solution.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**SA196-500**	364.50	6/1239.00

Oil of Vitriol, H_2SO_4; [7664-93-9]; **Melting Point:** 10°C
Boiling Point: 290° to 338°C/554° to 640.4°F
Density: 3.38 (Air = 1.0); **DOT Class 8**: Corrosive
UN 1830; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SA200-1**	96.70	6/436.50

Oil of Vitriol, H_2SO_4; [7664-93-9, 7732-18-5]
Melting Point: 11°C; **Boiling Point:** 105° to 325°C
Density: 1.1g/mL; **DOT Class 8**: Corrosive; **UN** 2796
Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**SA818-500**	72.78	6/348.87
1L	Poly Bottle	**SA818-1**	84.00	6/424.00
4L	Poly Bottle	**SA818-4**	116.20	4/376.00
20L	PolyPac	**SA818-20**	297.99	----

H_2SO_4; [7664-93-9, 7732-18-5]; **Melting Point:** 10°C
Boiling Point: 290° to 338°C/554° to 640.4°F
Density: 3.38 (Air = 1.0); **DOT Class 8**: Corrosive
UN 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**SA208-1**	121.90	6/539.50

Oil of Vitriol, [7664-93-9, 7732-18-5]; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**8310-32**	36.25	----

Clear, colorless liquid; [7732-18-5, 7664-93-9]
Melting Point: Below 0; **Boiling Point:** Approx. 100

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA212-1**	57.00	6/253.76
4L	Poly Bottle	**SA212-4**	138.90	4/416.00
20L	PolyPac	**SA212-20**	308.00	----

[7664-93-9, 7732-18-5]; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Plastic Bottle	**AC12424-0010**	28.20	----

Volumetric standard solution; H_2O_4S; H_2SO_4
F.W. 98.07; [7664-93-9, 7732-18-5]; **Boiling Point:** 100.0°C; **UN** 2796

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA215-1**	59.90	6/279.00
4L	Poly Bottle	**SA215-4**	149.80	4/458.00

[7664-93-9, 7732-18-5]; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid

Quantity	Packaging	Cat.No.	Each	Case of
20L	Cubitainer	**8272-5**	156.40	----

H_2SO_4; [7664-93-9 (Sulfuric Acid), 7732-18-5 (Water, Deionized)]

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA220-1**	57.00	6/269.50
4L	Poly Bottle	**SA220-4**	122.10	4/370.50
20L	PolyPac	**SA220-20**	321.50	----

[7664-93-9, 7732-18-5]; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA218-1**	69.60	6/306.50

[7664-93-9, 7732-18-5]; **Density:** >1.0
DOT Class 8: Corrosive; **UN** 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID — ChemAlert® Storage Code WHITE

Sulfuric Acid Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SA226-1**	49.40	6/222.50
4L	Poly Bottle	**SA226-4**	110.60	4/336.50
20L	PolyPac	**SA226-20**	279.00	----

[7664-93-9, 7732-18-5, 50-00-0]; **DOT Class 8**: Corrosive **UN** 2796; Standardized to pH 4.4 at 25°C against sodium hydroxide that has been standardized against NIST* potassium acid phthalate.

ACID

ChemAlert* Storage Code WHITE

Sulfurous Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**A307-1**	168.50	6/569.00

Sulfur Dioxide Solution, H_2SO_3; [7782-99-2]
Density: 1.03g/mL; **DOT Class 8**: Corrosive; **UN** 1833

ACID

ChemAlert* Storage Code WHITE

Talc — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**T4-500**	61.85	6/271.18
10kg	Poly Pail	**T4-10**	508.39	----

Powder; Soapstone, Talcum, $_3MgO_4SiO_2H_2O$
[14807-96-6, 14808-60-7]; **Melting Point:** 800°C; **Density:** 5.7

ChemAlert* Storage Code GRAY

Tannic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A310-500**	319.80	6/1333.33

Powder; Tannin, Gallotannic Acid, $C_{76}H_{52}O_{46}$
F.W. 1701.18; [1401-55-4]

ChemAlert* Storage Code GRAY

TCLP Extraction Fluid 1

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**8377-1**	71.40	----
20L	Cubitainer	**8377-5**	219.50	----

TCLP Extraction Fluid 2

Quantity	Packaging	Cat.No.	Each	Case of
20L	Cubitainer	**8378-5**	245.00	----

[7732-18-5, 64-19-7]

tert-Butyl hydroperoxide, 70% Solution in water

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Jerry Can	**AC18034-0100**	338.30	----

Colorless liquid; TBHP, $C_4H_{10}O_2$; **F.W.** 90.12; [75-91-2, 7732-18-5]
Melting Point: –2.8°C; **Flash Point:** 43°C; **Boiling Point:** 37°C (at 15mmHg)
Density: 0.94g/cm^3; **n:** 1.386 to 1.388

Tetrabutylammonium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**O4576-100**	310.50	6/1378.00

$C_{16}H_{37}NO$; **F.W.** 259.48; [2052-49-5, 67-56-1]; **Flash Point:** 12°
Density: 0.83g/mL; **DOT Class 3**: Flammable Liquid; **UN** 2924
Packaged under nitrogen.
Recommended Storage: Refrigerate

ChemAlert* Storage Code RED

Tetrabutylammonium hydroxide

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Plastic Bottle	**AC21291-1000**	75.40	----
800mL	Plastic Bottle	**AC21291-8000**	415.60	----
2.5L	Plastic Bottle	**AC21291-0025**	982.90	----

1M solution in Methanol; Phase transfer catalyst; $C_{16}H_{37}NO$; $[CH_3(CH_2)_3]_4NOH$; **F.W.** 259.46
[2052-49-5, 67-56-1]; **Melting Point:** – 98.0°C; **Flash Point:** 12°C
Boiling Point: 65.0°C; **Density:** 0.9100g/mL; **n:** 1.3775; **UN** 3286

Tetrabutylammonium Hydroxide Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**O4575-100**	133.60	6/580.00

$(CH_3CH_2CH_2CH_2)_4NOH$; [2052-49-5, 7732-18-5]; **Melting Point:** 0°C
DOT Class 8: Corrosive; **UN** 1719

ChemAlert* Storage Code WHITE

Tetrabutylammonium hydroxide

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC12353-0025**	901.90	----

0.1N solution in toluene/methanol
Phase transfer catalyst; $C_{16}H_{37}NO$; $[CH_3(CH_2)_3]_4NOH$
F.W. 259.47; [2052-49-5, 108-88-3, 67-56-1]; **Flash Point:** 4°C
Density: 0.8500g/mL; **n:** 1.3775

Tetrachloroauric Acid Trihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Vial	**G54-1**	364.50	6/1702.00
5g	Amber Glass	**G54-5**	1370.00	----

Crystalline; Chloroauric Acid, $HAuCl_4{\cdot}3H_2O$; **F.W.** 393.83
[16961-25-4]; **Melting Point:** 254°C; **Density:** 3.9g/mL
Recommended Storage: Refrigerate

ChemAlert* Storage Code GRAY

Tetrahydrofuran — Optima

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**T427-1**	149.20	6/659.00
4L	Glass Bottle	**T427-4**	351.00	4/1146.00
4L	Glass/Safe-Cote	**T427SK-4**	387.50	4/1143.00

High purity mobile phase for HPLC.; 99.9% min by GC
THF, Diethylene Oxide, C_4H_8O; **F.W.** 72.11; [109-99-9]
Melting Point: –108.5°C; **Flash Point:** –21°C/–5.8°F
Boiling Point: 66°C; **Density:** 2.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 2056; High purity and versatile solvent for HPLC.
High UV transmittance and low evaporation residue.
Filtered through a 0.2-µm filter to remove particulates.

SOLVENT

ChemAlert* Storage Code RED

Fisher Scientific

*Trademark. See trademarks at www.fishersci.com

Prices subject to change.

Tetrahydrofuran — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**T425-1**	132.03	6/514.78
1L	Glass/Safe-Cote	**T425SK-1**	165.60	6/646.50
4L	Glass Bottle	**T425-4**	286.50	4/501.00
4L	Glass/Safe-Cote	**T425SK-4**	318.10	4/1272.40

SOLVENT — ChemAlert® Storage Code RED

Mobile phase for HPLC applications.; 99.9% min by GC
THF, C_4H_8O; $CH_2(CH_2)_2CH_2O$; **F.W.** 72.11; [109-99-9]
Melting Point: –108.5°C; **Flash Point:** –21°C/–5.8°F
Boiling Point: 66°C; **Density:** 2.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 2056; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions.

Tetrahydrofuran — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T424-4**	637.50	4/1824.00

SOLVENT — ChemAlert® Storage Code RED

≥99.9 %; THF, C_4H_8O; $CH_2(CH_2)_2CH_2O$; **F.W.** 72.11
[109-99-9]; **Melting Point:** –108.5°C
Flash Point: –21°C/–5.8°F; **Boiling Point:** 66°C
Density: 2.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 2056; Contains no preservatives.

Tetrahydrofuran — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T400-500**	59.35	6/250.63
4L	Glass Bottle	**T400-4**	262.50	4/749.50
20L	Steel Pail	**T400-20**	738.50	----

SOLVENT — ChemAlert® Storage Code RED

THF, C_4H_8O; $CH_2(CH_2)_2CH_2O$; **F.W.** 72.11
[109-99-9, 128-37-0]; **Melting Point:** –108.5°C
Flash Point: –21°; **Boiling Point:** 66°C
Density: 0.89g/mL; **DOT Class 3**: Flammable Liquid; **UN** 2056; Contains about 0.025% butylated hydroxytoluene as a preservative.

Tetrahydrofuran — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T397-500**	127.12	6/526.31
1L	Glass Bottle	**T397-1**	163.80	6/982.80
4L	Glass Bottle	**T397-4**	419.90	4/1679.60
4L	Glass/Safe-Cote	**T397SK-4**	481.00	4/1359.00
20L	Steel Pail	**T39720**	1102.00	----

SOLVENT

Contains about 0.025% butylated hydroxytoluene as a preservative; C_4H_8O; **F.W.** 72.11
[109-99-9, 128-37-0]; **Melting Point:** –108.5°C
Flash Point: –21°; **Boiling Point:** 66°C; **Density:** 0.89g/mL
DOT Class 3: Flammable Liquid; **UN** 2056; Contains about 0.025% butylated hydroxytoluene as a preservative.
Purity is guaranteed to meet published maximum limits of impurities.

Tetrahydrofuran — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**AC61010-0040**	294.80	4/1179.20

For HPLC; 99.9%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]
Melting Point: 108.4C; **Flash Point:** 21C; **Boiling Point:** 66.0C
Density: 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — For HPLC

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC26829-0010**	98.40	----
2.5L	AcroSeal® Glass Bottle	**AC26829-0025**	190.90	4/763.60
4L	AcroSeal® Glass Bottle	**AC26829-0040**	285.10	4/1140.40

For HPLC; 99.8%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]
Melting Point: 108.4C; **Flash Point:** 21C; **Boiling Point:** 66.0C
Density: 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — Extra Dry over Molecular Sieve

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC34845-1000**	46.00	----
1L	AcroSeal® Glass Bottle	**AC34845-0010**	87.30	----
2.5L	AcroSeal® Glass Bottle	**AC34845-0025**	176.60	----

99.5%; THF, C_4H_8O; **F.W.** 72.11; [109-99-9, 128-37-0]
Melting Point: – 108.4°C; **Flash Point:** –21°C; **Boiling Point:** 66.0°C
Density: 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
250mL	Glass Bottle	**AC18150-2500**	40.10	6/199.60
1L	Glass Bottle	**AC18150-0010**	98.00	----

99.9%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]; **Melting Point:** 108.4C
Flash Point: 21C; **Boiling Point:** 66.0C; **Density:** 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC61090-0010**	85.40	512.40

99.9%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]; **Melting Point:** 108.4C
Flash Point: 21C; **Boiling Point:** 66.0C; **Density:** 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal® Glass Bottle	**AC61045-0010**	88.80	532.80

99.9%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]; **Melting Point:** 108.4C
Flash Point: 21C; **Boiling Point:** 66.0C; **Density:** 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61091-1000**	40.30	6/241.80

99.9%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]; **Melting Point:** 108.4C
Flash Point: 21C; **Boiling Point:** 66.0C; **Density:** 0.8800g/mL; **n:** 1.4070

Tetrahydrofuran — Extra Dry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61092-1000**	46.50	6/279.00

99.9%; THF, C4 H8 O; **F.W.** 72.11; [, 128-37-0]; **Melting Point:** 108.4C
Flash Point: 21C; **Boiling Point:** 66.0C; **Density:** 0.8800g/mL; **n:** 1.4070

Tetramethylammonium hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC13835-0025**	466.70	----

Phase transfer catalyst; $C_4H_{13}NO$; $(CH_3)_4NOH$; **F.W.** 91.15; [75-59-2, 67-56-1]
Melting Point: – 98.0°C; **Flash Point:** 6°C; **Boiling Point:** 65.0°C
Density: 0.9000g/mL; **UN** 3286

Thymol Blue — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**T416-5**	239.88	6/1042.85

Thymolsulfonephthalein, $C_{27}H_{30}O_5S$; **F.W.** 466.6; [76-61-9]
Melting Point: 222.78°C; pH Indicator.

ChemAlert® Storage Code GRAY

Thyodene™ Indicator

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**T138-100**	92.00	6/416.00
500g	Poly Bottle	**T138-500**	340.90	6/1490.58

Starch, Soluble, $C_6H_{10}O_5X$; [9005-84-9]; **Density:** 1.04g/mL
A stable, soluble indicator for iodometry.

ChemAlert® Storage Code GRAY

Tin — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**T123-500**	504.00	6/2030.00

Mossy; Sn; **F.W.** 118.71; [7440-31-5]; **Melting Point:** 231.9°C
Boiling Point: 2507°C; **Density:** 7.31g/mL

ChemAlert® Storage Code GRAY

TissuePrep* Embedding Media — Certified

Quantity	Packaging	Cat.No.	Each	Case of
5 lb. (2.3kg)	Carton	**T56-5**	229.00	----

Paraffin Wax, [8002-74-2]; **Flash Point:** 198.9°C/390.02°F
Paraffin wax. Purity is guaranteed to meet published maximum limits of impurities.

ChemAlert® Storage Code GRAY

TissuePrep* 2 Micron — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4.5 lb. (2kg)	Carton	**T555-2**	245.00	----

[64742-43-4, 9017-27-0]; **Melting Point:** 53° to 57°C
Flash Point: 198.9°C/390.02°F; **Boiling Point:** 322°C
Density: 0.9g/mL; A superior embedding compound for 2 micron sectioning.
Purity is guaranteed to meet published maximum limits of impurities.

ChemAlert® Storage Code GRAY

Titanium (III) Chloride Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**ST43-500**	390.00	6/1730.00

19 to 23 %; Titanous Chloride, [7705-07-9, 7647-01-0, 7732-18-5]
Density: >1.0; **DOT Class 8**: Corrosive; **UN** 3264
Contains hydrochloric acid.

ChemAlert® Storage Code WHITE

Titanium (IV) Oxide Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**T315-500**	98.45	6/409.02

Powder; Titanium Dioxide, TiO_2; **F.W.** 79.87; [13463-67-7]
Melting Point: 1855°C; **Boiling Point:** 2900°C; **Density:** 3.84g/mL

ChemAlert® Storage Code GRAY

Titration Solvent — ASTM

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber glass	**8620-1**	164.70	----

[]; Note: May not be shipped via UPS Air Services.

Titration Solvent

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**ST93-4**	199.90	4/584.50

[108-88-3, 67-63-0]; **Flash Point:** 22°; **Density:** 0.82g/mL
DOT Class 3: Flammable Liquid; **UN** 1993; Isopropanol:Toluene 1:1.
Meets ASTM D 664, D 974.

ChemAlert® Storage Code RED

p-Toluenesulfonic Acid Monohydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A320-500**	312.00	6/1363.00

Crystalline; $C_7H_8O_3S{\cdot}H_2O$; $CH_3C_6H_4SO_3H{\cdot}H_2O$; **F.W.** 190.22
6192-52-5]; **Melting Point:** 103°C; **Boiling Point:** 140°C at 20 mmHg
DOT Class 8: Corrosive; **UN** 2585

ChemAlert® Storage Code WHITE

Toluene — Optima

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**T291-4**	222.50	4/801.00

High purity mobile phase for HPLC and/or extraction solvent for GC applications.; ≥99.8 %; Methylbenzene, Toluol, Phenyl Methane, $C_6H_5CH_3$; $C_6H_5CH_3$; **F.W.** 92.14
[108-88-3]; **Melting Point:** –95°C; **Flash Point:** Flash point: 4°C / 39.2°F
Boiling Point: 110.6°C; **Density:** 3.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1294; High purity and versatile solvent for HPLC, GC and pesticide residue analysis.
High UV transmittance and low evaporation residue.
Filtered through a sub-µm filter to remove particulates. Packaged under nitrogen.

SOLVENT

ChemAlert® Storage Code RED

Toluene — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**T290-1**	93.73	6/306.77
1L	Glass/Safe-Cote	**T290SK-1**	120.03	6/468.18
4L	Glass Bottle	**T290-4**	178.65	4/477.19
4L	Glass/Safe-Cote	**T290SK-4**	357.40	4/537.78

Mobile phase for HPLC applications.; 99.8% min by GC
PhMe, PhCH3, Methylbenzene, Phenyl Methane, $C_6H_5CH_3$; **F.W.** 92.14; [108-88-3]; **Melting Point:** –95°C
Flash Point: Flash point: 4°C / 39.2°F; **Boiling Point:** 110.6°C
Density: 3.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1294
HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a sub-micron filter to remove particulates.

SOLVENT

ChemAlert® Storage Code RED

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Toluene — Scintanalyzed*

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T313-4**	173.04	4/497.58

Also meets ACS specifications; ≥99.5 %
Methylbenzene, Toluol, Phenyl Methane, $C_6H_5CH_3$
$C_6H_5CH_3$; **F.W.** 92.14; [108-88-3]; **Melting Point:** –95°C
Flash Point: Flash point: 4°C / 39.2°F; **Boiling Point:** 110.6°C
Density: 3.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1294

SOLVENT — ChemAlert® Storage Code RED

Toluene — Spectranalyzed

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T330-4**	364.50	4/1041.00

Also meets ACS specifications; ≥99.5 %
Methylbenzene, Toluol, $C_6H_5CH_3$; $C_6H_5CH_3$
F.W. 92.14; [108-88-3]; **Melting Point:** –95°C
Flash Point: Flash point: 4°C / 39.2°F; **Boiling Point:** 110.6°C
Density: 3.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1294; For use in the ultraviolet and infrared ranges.

SOLVENT — ChemAlert® Storage Code RED

Toluene — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
1 gal.	Poly Bottle	**T326F-1GAL**	202.00	4/668.17
4L	Poly Bottle	**T326P-4**	205.50	4/637.50
20L	Steel Pail	**T326S-20**	454.50	----

Methylbenzene, Toluol, C_7H_8; $C_6H_5CH_3$; **F.W.** 92.14
[108-88-3]; **Flash Point:** 4°C/39.2°F
Density: 3.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1294

SOLVENT — ChemAlert® Storage Code RED

Toluene — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T324-500**	58.95	6/196.79
1L	Glass Bottle	**T324-1**	119.86	6/313.33
4L	Glass Bottle	**T324-4**	214.54	4/454.63
4L	Aluminum Can	**T324S-4**	447.31	4/682.67
4L	Glass/Safe-Cote	**T324SK-4**	235.09	4/481.20
20L	Steel Pail	**T324-20**	553.00	----
200L	Steel Drum	**T324-200**	3210.00	----

Also meets ASTM specifications; ≥99.5 %
Methylbenzene, Toluol, Phenyl Methane, $C_6H_5CH_3$
F.W. 92.14; [108-88-3]; **Melting Point:** –95°C
Flash Point: Flash point: 4°C / 39.2°F; **Boiling Point:** 110.6°C
Density: 3.1 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1294

SOLVENT — ChemAlert® Storage Code RED

Toluene — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T323-4**	197.10	4/567.00
20L	Steel Pail	**T323-20**	530.00	----

Methylbenzene, Toluol, $C_6H_5CH_3$; $C_6H_5CH_3$
F.W. 92.14; [108-88-3]; **Melting Point:** –95°C
Flash Point: Flash point: 4°C / 39.2°F
Boiling Point: 110.6°C; **Density:** 3.1 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1294

SOLVENT — ChemAlert® Storage Code RED

Toluene — For HPLC

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC61011-0040**	144.00	4/576.00

For HPLC; Tol, Methylbenzene, C7 H8; CHCH; **F.W.** 92.14
Melting Point: 95.0C; **Flash Point:** Flash point: 4°C / 39.2°F
Boiling Point: 111.0C; **Density:** 0.8660g/mL; **n:** 1.4968; **UN** 1294

Toluene — For spectroscopy ACS

Quantity	Packaging	Cat.No.	Each	Case of
4L	EcoSafPak	**AC42117-0040**	132.70	530.80

For UV/VIS spectroscopy; 99.5%; Tol, Methylbenzene, C_7H_8; $C_6H_5CH_3$
F.W. 92.14; [108-88-3]; **Melting Point:** – 95.0°C
Flash Point: Flash point: 4°C / 39.2°F; **Boiling Point:** 111.0°C
Density: 0.8660g/mL; **n:** 1.4968; **UN** 1294

Toluene — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
4x25mL	AcroSeal Bottle	**AC44840-1000**	28.00	----

99.85%; Tol, Methylbenzene, C_7H_8; $C_6H_5CH_3$; **F.W.** 92.14; [108-88-3]
Melting Point: – 95.0°C; **Flash Point:** 4°C; **Boiling Point:** 111.0°C
Density: 0.8660g/mL; **n:** 1.4968

Toluene — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
1L	AcroSeal Bottle	**AC61046-0010**	51.00	306.00

99.8%; Tol, Methylbenzene, C7 H8; CHCH; **F.W.** 92.14
Melting Point: 95.0C; **Flash Point:** Flash point: 4°C / 39.2°F
Boiling Point: 111.0C; **Density:** 0.8660g/mL; **n:** 1.4968; **UN** 1294

Toluene — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal Bottle	**AC61095-1000**	28.50	6/141.93

99.8%; Tol, Methylbenzene, C7 H8; CHCH; **F.W.** 92.14; **Melting Point:** 95.0C
Flash Point: Flash point: 4°C / 39.2°F; **Boiling Point:** 111.0C
Density: 0.8660g/mL; **n:** 1.4968; **UN** 1294

Toluene — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC42455-5000**	33.20	165.30
1L	Glass Bottle, EcoSafPak	**AC42455-0010**	51.20	----

99.5%; Tol, Methylbenzene, C_7H_8; $C_6H_5CH_3$; **F.W.** 92.14; [108-88-3]
Melting Point: – 95.0°C; **Flash Point:** 4°C; **Boiling Point:** 111.0°C
Density: 0.8660g/mL; **n:** 1.4968; **UN** 1294

Toluidine Blue O — Certified Biological Stain

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**T161-25**	337.00	6/1498.00

Basic Blue 17, Tolonium Chloride, $C_{15}H_{16}N_3SCl$
F.W. 305.83; [92-31-9]; **C.I.** 52040; For use in histology.

ChemAlert® Storage Code GRAY

Trichloroacetic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A322-100**	79.30	6/350.50
500g	Glass Bottle	**A322-500**	276.00	6/1188.00
3kg	Glass Bottle	**A322-3**	1109.29	4/3208.60

Crystalline; ≥99.0 %; TCA, $C_2HCl_3O_2$; CCl_3COOH; **F.W.** 163.39 [76-03-9]; **Melting Point:** 52° to 58°C/125.6° to 136.4°F
Boiling Point: 196°C; **Density:** 5.6 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 1839

ChemAlert* Storage Code WHITE

Trichloroacetic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A324-500**	213.50	6/1006.00
3kg	Glass Bottle	**A324-3**	923.50	4/2695.99

Crystalline; ≥99.0 %; TCA, $C_2HCl_3O_2$; CCl_3COOH; **F.W.** 163.39 [76-03-9]; **Melting Point:** 52° to 58°C/125.6° to 136.4°F
Boiling Point: 196°C; **Density:** 5.6 (Air = 1.0)
DOT Class 8: Corrosive; **UN** 1839

ChemAlert* Storage Code WHITE

Trichloroacetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SA433-500**	597.53	6/2692.63

99.5 to 101.0 %; Cl_3CCOOH; **F.W.** 163.39; [76-03-9, 7732-18-5]
Melting Point: 54° to 58°C; **Boiling Point:** 196°C; **Density:** 1.62g/mL
DOT Class 8: Corrosive; **UN** 2564

ChemAlert* Storage Code WHITE

Trichloroacetic acid — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC42145-0025**	491.50	----

99+%; TCA, $C_2HCl_3O_2$; CCl_3CO_2H; **F.W.** 163.39; [76-03-9]
Melting Point: 52.0°C to 58.0°C; **Boiling Point:** 196.0°C
Density: 1.6200g/mL; **UN** 1839

Trichloroacetic Acid Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SA254-500**	230.00	6/1017.00

20 to 21 %; Cl_3CCOOH; [76-03-9, 7732-18-5]
Melting Point: 54° to 58°C; **Boiling Point:** 196°C; **Density:** 1.62g/mL
DOT Class 8: Corrosive; **UN** 2564

ChemAlert* Storage Code WHITE

Trifluoroacetic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**O4902-100**	246.00	6/1067.00

≥98.5 %; $C_2HF_3O_2$; CF_3COOH; **F.W.** 114.02; [76-05-1]
Melting Point: –15°C; **Boiling Point:** 72°C; **Density:** 3.9
DOT Class 8: Corrosive; **UN** 2699

ChemAlert* Storage Code WHITE

Trifluoroacetic Acid — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O4901-500**	336.50	6/1468.00

≥97 %; TFA, $C_2HF_3O_2$; CF_3COOH; **F.W.** 114.02; [76-05-1]
Melting Point: –15°C; **Boiling Point:** 72°C; **Density:** 3.9
DOT Class 8: Corrosive; **UN** 2699

ChemAlert* Storage Code WHITE

Trifluoroacetic acid — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Drum	**AC13972-0100**	1578.20	----

99%; TFA, $C_2HF_3O_2$; CF_3CO_2H; **F.W.** 114.02; [76-05-1]
Melting Point: – 15.0°C; **Boiling Point:** 72.0°C; **Density:** 1.5350g/mL
n: 1.3000; **UN** 2699

Tris (Tromethamine) — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**T393-500**	193.60	6/775.50
2.5kg	Poly Bottle	**T393-212**	748.00	4/2160.00
12kg	Poly Pail	**T393-12**	2660.00	----

Granular; Trishydroxymethylaminomethane, Tris Buffer, Tris, THAM*, Trizma*, $(CH_2OH)_3CNH_2$; $H_2NC(CH_2OH)_3$; **F.W.** 121.14 [77-86-1]; **Melting Point:** 171.2° to 172.3°C
Boiling Point: 219° to 220°C at 10 mmHg

ChemAlert* Storage Code GRAY

Tris(hydroxymethyl)aminomethane — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**T395-100**	85.90	6/376.26
500g	Poly Bottle	**T395-500**	266.00	6/1168.00
1kg	Poly Bottle	**T395-1**	435.00	6/1256.00

Crystalline; 99.8 to 100.1 %
2-Amino-2-(hydroxymethyl)-1,3-propanediol, Trimethylol Aminomethane, Tris Buffer, Tris, Trizma*, $(CH_2OH)_3CNH_2$
$H_2NC(CH_2OH)_3$; **F.W.** 121.14; [77-86-1]; **Melting Point:** 171.2° to 172.3°C
Boiling Point: 219° to 220°C at 10 mmHg; Alkalimetric standard.

ChemAlert* Storage Code GRAY

Tris(hydroxymethyl)aminomethane — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**T370-500**	256.50	6/1081.00
3kg	Poly Pail	**T370-3**	942.00	----

Crystalline; THAM*, 2-Amino-2-(hydroxymethyl)-1,3-Propanediol Trimethylol Aminomethane, Trizma*, $(CH_2OH)_3CNH_2$; H2NC(CH2OH)3; **F.W.** 121.14; [77-86-1]
Melting Point: 171.2° to 172.3°C; **Boiling Point:** 219° to 220°C at 10 mmHg

ChemAlert* Storage Code GRAY

Tris(hydroxymethyl)aminomethane Hydrochloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O4997-100**	150.60	6/629.50

Crystalline; ≥95 %; 2-Amino-2-(hydroxymethyl)-1,3-propanediol Hydrochloride, Tris Hydrochloride, $C_4H_{11}NO_3{\cdot}HCl$
$NH_2C(CH_2OH)_3{\cdot}HCl$; **F.W.** 157.6; [1185-53-1]
Melting Point: 150° to 153°C/302° to 307.4°F

ChemAlert* Storage Code GRAY

Triton* X-100 Wetting Agent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**86985-16**	71.10	----

viscous colorless liquid; [9002-93-1]
Melting Point: 6°C; **Boiling Point:** 270°C

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Prices subject to change.

Triton* X-100

Quantity	Packaging	Cat.No.	Each	Case of
250mL	Glass Bottle	**AC21568-2500**	25.35	----
1L	Glass Bottle	**AC21568-0010**	61.30	----
10L	Plastic Drum	**AC21568-0100**	383.20	----

$C_{34}H_{62}O_{11}$; **F.W.** 646.85; [9002-93-1]; **Melting Point:** 6.0°C; **Flash Point:** 274°C
Boiling Point: 270.0°C; **Density:** 1.0670g/mL; **n:** 1.4900 to 1.4920; **UN** 3082

Tween* 80

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T164-500**	166.10	6/725.00

Polyoxyethylene (20), Polysorbate (80), [9005-65-6]
Flash Point: 110°C; **Density:** >1.0

ChemAlert* Storage Code GRAY

Tween™ 20

Quantity	Packaging	Cat.No.	Each	Case of
250mL	Glass Bottle	**AC23336-2500**	28.55	----
1L	Glass Bottle	**AC23336-0010**	55.90	----

Polyoxyethylene(20)sorbitan monolaurate, [9005-64-5]
Flash Point: >150°C; **Boiling Point:** > 100.0°C; **Density:** 1.1000g/mL
n: 1.4685 to 1.4715

Water — Optima* LC/MS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**W6-1**	81.80	6/357.00
4L	Glass Bottle	**W6-4**	176.10	4/433.51

Formulated for UHPLC-UV; H_2O; **F.W.** 18.02; [7732-18-5]; **Melting Point:** 0°C
Boiling Point: 100°C; **Density:** 1g/mL; ---Ideal mobile phase for LC/MS and UHPLC-UV applications in pharmaceutical, biotechnology, clinical, environmental and food safety industries.
---Novel gradient elution test with Photodiode Array Detector screens for UV-absorbing contaminants at every wavelength in the 200 to 400nm range to afford smooth baselines and to reduce interferences.
---Evaluated for 17 metal impurities at ppb concentrations to minimize the formation of metal adducts during analysis and simplify spectral interpretation.

Water — OPTIMA*

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**W7-1**	55.30	6/277.50
4L	Glass Bottle	**W7-4**	159.40	4/408.00
4L	Glass/Safe-Cote	**W7SK-4**	190.30	4/559.61

High purity mobile phase for HPLC.; H_2O; **F.W.** 18.02; [7732-18-5]
Melting Point: 0°C; **Boiling Point:** 100°C; **Density:** 1g/mL; High purity mobile phase for HPLC.
High UV transmittance and low evaporation residue.
Suitable for gradient and isocratic conditions. HPLC mobile phase for analytical and preparative separations.

ChemAlert* Storage Code GRAY

Water — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**W5-1**	59.00	6/233.00
1L	Glass/Safe-Cote	**W5SK-1**	104.86	6/403.01
4L	Glass Bottle	**W5-4**	109.00	4/383.50
4L	Glass/Safe-Cote	**W5SK-4**	117.10	4/304.00
19L	NOWPak I	**W5-N119**	436.50	----

Submicron Filtered; Mobile phase for HPLC applications.; H_2O
F.W. 18.02; [7732-18-5]; **Melting Point:** 0°C; **Boiling Point:** 100°C
Density: 1g/mL; HPLC mobile phase for analytical and preparative separations.
Suitable for gradient and isocratic conditions.
Filtered through a 0.5µm filter to remove particulates.

ChemAlert* Storage Code GRAY

Water — Environmental Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass Bottle	**W11-1**	84.75	6/398.02
4L	Amber Glass	**W11-4**	200.50	4/681.50

H_2O; H_2O; **F.W.** 18.02; [7732-18-5]; Packaged in precleaned amber glass bottles to protect product integrity.

ChemAlert* Storage Code GRAY

Water — For molecular biology

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC32739-0010**	56.40	----
5L	Plastic Jerry Can	**AC32739-0050**	178.30	----

Biological buffer; H_2O; H_2O; **F.W.** 18.02; [7732-18-5]
Boiling Point: 100.0°C; **Density:** 1.0000g/mL; **n:** 1.3334

Water, D.I.U.F.

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**W2-4**	76.40	4/236.00
20L	PolyPac	**W2-20**	188.60	----

Deionized ultra-filtered water, H_2O; **F.W.** 18.02; [7732-18-5]
Melting Point: 0°C; **Boiling Point:** 100°C; **Density:** 1g/mL

ChemAlert* Storage Code GRAY

Water — For analysis

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC38940-0100**	99.30	----

Biological buffer; H_2O; H_2O; **F.W.** 18.02; [7732-18-5]; **Boiling Point:** 100.0°C
Density: 1.0000g/mL; **n:** 1.3334

Water — HPLC/ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber glass	**9153-32**	38.05	----
4L	Amber glass	**9153-1**	82.60	----

Suitable for Ultraviolet Spectrophotometry and Liquid Chromatography [7732-18-5]

Before You Buy **Organic Chemicals**

ACROS ORGANICS
Part of Thermo Fisher Scientific

AcroSeal packaging: Keep reagents drier, longer

When using air- and moisture-sensitive solvents and reagents, it is essential that these products are not only as dry as possible when you first use them, but they should remain dry in storage as well. Through the innovative quadrant-style screw cap and specially designed septum, AcroSeal packaging ensures that you have access to high-quality and low-moisture products every use, guaranteeing improved yield and consistency of your research experiments while reducing chemical waste.

QR URL at
www.fishersci.com/AcrosOrganics

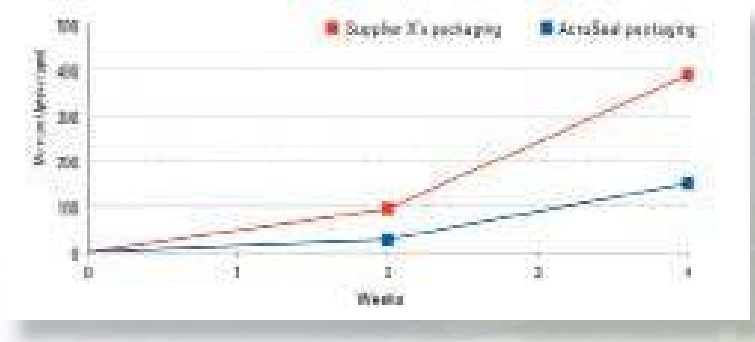
Features To Look For

AcroSeal highlights

- **New septum** developed from a polymeric elastomer with an inert fluoropolymer-coated surface, preserves product quality for longer with better re-seal around needle punctures.
- **Red butyl rubber septum** is used on our organometallics, reagents in solution and organics products because it provides excellent chemical resistance to these products.
- **Adhesive-free septum** reduces the risk of contamination.
- **Multiple screw thread windings** in the inner septum holding cap minimize the risk of moisture ingress between cap and bottle.
- **Inner septum holding cap rim design** supports and stretches the septum, reducing the risk of bulging or deformation.
- **Large surface area** allows easier access for a second needle to replace the nitrogen blanket during use and prevents the need to puncture the same spot twice.
- **Cushioning liner** in outer protective cap re-seals perfectly even after the septum has been pierced multiple times.
- **Tamper-evident seal** indicates if the product has already been opened.
- **Easy cap removal** ensures effortless access to large volumes of product.

AcroSeal packaging performance

Moisture uptake of Tetrahydrofuran packaged in AcroSeal packaging versus supplier X's packaging



A four-week analysis was undertaken to measure the water uptake of Tetrahydrofuran packaged in AcroSeal packaging versus supplier X's packaging. Our results demonstrate that the rate of moisture uptake was reduced by more than 50% for Tetrahydrofuran packaged in AcroSeal packaging when compared to supplier X's packaging.

Water — USP/EP Purified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Natural	**9190-1**	35.72	----
10L	Cubitainer	**9190-25**	69.70	----
20L	Cubitainer	**9190-5**	159.30	----

[7732-18-5]

Water — USP Purified

Quantity	Packaging	Cat.No.	Each	Case of
55 Gal.	Drum	**9191000-55E**	432.50	----

Clear, colorless liquid; [7732-18-5]; **Boiling Point:** Approx. 100

Water with 0.1% Formic Acid (v/v) — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**HB523-4**	150.50	4/457.50

≥98.5 %; [64-18-6, 7732-18-5]

Water with 0.1% Trifluoroacetic Acid (v/v) — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**HB513-4**	152.70	4/477.50

[7732-18-5, 76-05-1]

Xylene cyanol FF

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC44070-0100**	43.40	----
50g	Glass Bottle	**AC44070-0500**	173.90	----

blue-grey to green powder; Acid blue 147 monosidium salt, C.I. 42135, $C_{25}H_{27}N_2NaO_6S_2$; **F.W.** 538.61 ; [2650-17-1]; **Melting Point:** 295°C

m-Xylene — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O5079-4**	338.00	4/912.50

C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.16; [108-38-3]
Melting Point: –48°C; **Flash Point:** 25°
Boiling Point: 139°C; **Density:** 0.86g/mL
DOT Class 3: Flammable Liquid; **UN** 1307

SOLVENT — ChemAlert® Storage Code RED

m-Xylene — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC15893-1000**	31.50	----

99%; 1,3-Dimethylbenzene, C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17; [108-38-3]
Melting Point: – 48.0°C; **Flash Point:** 25°C; **Boiling Point:** 139.0°C to 139.0°C; **Density:** 0.8640g/mL; **n:** 1.4960 to 1.4980

o-Xylene — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O5081-4**	294.00	4/818.50

C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.16; [95-47-6, 100-41-4]
Melting Point: –25°C; **Flash Point:** 31°C/87.8°F
Boiling Point: 143° to 145°C/289.4° to 293°F
Density: 3.7; **DOT Class 3**: Flammable Liquid; **UN** 1307

SOLVENT — ChemAlert® Storage Code RED

o-Xylene — Pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC14099-0010**	79.70	396.50
2.5L	Glass Bottle	**AC14099-0025**	145.80	----

99%; 1,2-Dimethylbenzene, C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17; [95-47-6]
Melting Point: – 25.0°C; **Flash Point:** 31°C; **Boiling Point:** 143.0°C to 145.0°C; **Density:** 0.8780g/mL; **n:** 1.5038 to 1.5058; **UN** 1307

o-Xylene — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC44302-1000**	41.10	----
1L	AcroSeal® Glass Bottle	**AC44302-0010**	79.50	----

99%; 1,2-Dimethylbenzene, C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17; [95-47-6]
Melting Point: – 25.0°C; **Flash Point:** 31°C; **Boiling Point:** 143.0°C to 145.0°C; **Density:** 0.8780g/mL; **n:** 1.5038 to 1.5058

p-Xylene — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O5082-500**	138.70	6/566.00
4L	Glass Bottle	**O5082-4**	446.50	4/1222.00

C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17; [106-42-3]
Melting Point: 13°C; **Flash Point:** 25°
Boiling Point: 138°C; **Density:** 0.87g/mL; **DOT Class 3**: Flammable Liquid; **UN** 1307

SOLVENT — ChemAlert® Storage Code RED

Xylenes — Scintanalyzed*

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**X16-4**	214.50	4/619.50

Also meets ACS specifications; ≥98.5 %; Xylol, Dimethylbenzene, C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17 [1330-20-7, 100-41-4]; **Melting Point:** –34°C
Flash Point: 25.6°C/78.1°F; **Boiling Point:** 136° to 140°C/276.8° to 284°F
Density: 3.66 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1307

SOLVENT — ChemAlert® Storage Code RED

Xylenes — Histological Grade

Quantity	Packaging	Cat.No.	Each	Case of
1 gal.	Poly	**X3F-1GAL**	146.10	4/439.50
1 gal.	Poly Bottle	**X3P-1GAL**	142.70	4/331.50
4L	Aluminum Can	**X3S-4**	139.35	4/400.00
20L	Steel Pail	**X3S-20**	364.00	----
200L	Steel Drum	**X3S-200**	2350.00	----

Xylol, Dimethylbenzene, C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17 [1330-20-7, 100-41-4]; **Melting Point:** –34°C
Flash Point: 25.6°C/78.1°F; **Boiling Point:** 136° to 140°C/276.8° to 284°F; **Density:** 3.66 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1307; Specially filtered for use in tissue processors.
This reagent is generally a mixture of the ortho, meta, and para isomers and may contain some Ethylbenzene.

SOLVENT — ChemAlert® Storage Code RED

Xylenes — Certified ACS Reagent Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**X5-500**	63.76	6/267.17
1L	Glass Bottle	**X5-1**	136.70	6/569.00
4L	Glass Bottle	**X5-4**	242.00	4/465.50
4L	Aluminum Can	**X5S-4**	256.50	4/718.00
4L	Glass/Safe-Cote	**X5SK-4**	261.50	4/740.50
20L	Steel Pail	**X5-20**	545.50	----
200L	Steel Drum	**X5-200**	2860.00	----
1 gal.	Poly Bottle	**X5P-1GAL**	228.00	4/718.50

≥98.5 %; Xylol, Dimethylbenzene, C_8H_{10}; **F.W.** 106.17 [1330-20-7, 100-41-4]; **Melting Point:** –34°C
Flash Point: 25.6°C/78.1°F; **Boiling Point:** 136° to 140°C/276.8° to 284°F; **Density:** 3.66 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1307; This reagent is generally a mixture of the ortho, meta, and para isomers and may contain some Ethylbenzene.

SOLVENT — ChemAlert* Storage Code RED

Xylenes — Laboratory Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**X4-4**	214.50	4/616.00
20L	Steel Pail	**X4-20**	673.50	----

Naphtha Solvent from Coal Tar, Xylol, Dimethylbenzene, C_8H_{10}; $C_6H_4(CH_3)_2$; **F.W.** 106.17; [1330-20-7, 100-41-4]
Melting Point: –34°C; **Flash Point:** 25.6°C/78.1°F
Boiling Point: 136° to 140°C/276.8° to 284°F; **Density:** 3.66 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1307; Meets ASTM D 95-46-B.
This reagent is generally a mixture of the ortho, meta, and para isomers and may contain some Ethylbenzene.

SOLVENT — ChemAlert* Storage Code RED

Xylenol Orange Tetrasodium Salt — Certified

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**X15-5**	320.50	6/1397.00

Xylenol Orange Indicator, $C_{31}H_{28}N_2Na_4O_{13}S$; **F.W.** 760.59; [3618-43-7]
Melting Point: 210°C; Indicator for bismuth. Also suitable as a chelometric indicator for cadmium, lead, mercury, lanthanum, scandium, and thorium.

ChemAlert* Storage Code GRAY

Zinc — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z15-500**	255.50	6/950.00
3kg	Poly Bottle	**Z15-3**	958.50	6/2783.49

Granular, 20 Mesh; ≥99.8 %; Zn; **F.W.** 65.41; [7440-66-6]
Melting Point: 419°C; **Boiling Point:** 908°C; **Density:** 7.14g/mL
Low in Arsenic, Iron and Lead.

ChemAlert* Storage Code GRAY

Zinc — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z16-500**	199.90	6/856.50

Granular, 30 Mesh; ≥99.8 %; Zn; **F.W.** 65.41; [7440-66-6]
Melting Point: 419°C; **Boiling Point:** 908°C; **Density:** 7.14g/mL
Low in Arsenic, Iron and Lead.

ChemAlert* Storage Code GRAY

Zinc — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z11-500**	162.70	6/676.00

Mossy; ≥99.8 %; Zn; **F.W.** 65.41; [7440-66-6]; **Melting Point:** 419°C
Boiling Point: 908°C; **Density:** 7.14g/mL; Low in arsenic, iron and lead.

ChemAlert* Storage Code GRAY

Zinc — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z5-500**	104.00	6/452.50

Powder; ≥97 %; Zinc Dust, Zn; **F.W.** 65.41; [7440-66-6]
Melting Point: 419°C; **Boiling Point:** 908°C; **Density:** 7.14g/mL
DOT Class 4.3: Dangerous When Wet; **UN** 1436

ChemAlert* Storage Code RED

Zinc Acetate Dihydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z20-500**	137.50	6/575.00

Crystalline; Acetic Acid Zinc Salt, $Zn(CH_3COO)_2{\cdot}2H_2O$
$Zn(C_2H_3O_2)_2{\cdot}2H_2O$; **F.W.** 219.53; [5970-45-6]; **Melting Point:** 100°C
Density: 1.84g/mL

ChemAlert* Storage Code GRAY

Zinc Chloride — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**Z31-3**	268.00	4/770.00

Powder; $ZnCl_2$; **F.W.** 136.3; [7646-85-7]; **Melting Point:** 293°C
Boiling Point: 732°C; **Density:** 2.91g/mL; **DOT Class 8**: Corrosive
UN 2331

ChemAlert* Storage Code WHITE

Zinc Nitrate Hexahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z45-500**	137.00	6/574.50

Crystalline; $Zn(NO_3)_2{\cdot}6H_2O$; $Zn(NO_3)_2{\cdot}6H_2O$; **F.W.** 297.49; [10196-18-6]
Melting Point: 36.4°C; **Density:** 2.07g/mL; **DOT Class 5.1**: Oxidizer
UN 1514

ChemAlert* Storage Code YELLOW

Zinc Oxide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**Z52-500**	148.60	6/627.50
10kg	Poly Pail	**Z52-10**	780.45	----

Powder; ≥99.0 %; ZnO; **F.W.** 81.41; [1314-13-2]
Melting Point: 1975°C; **Density:** 5.6g/mL

ChemAlert* Storage Code GRAY

Zinc Sulfate Heptahydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**Z76-500**	109.70	6/484.00
3kg	Poly Bottle	**Z76-3**	389.50	4/1071.00

$ZnSO_4{\cdot}7H_2O$; **F.W.** 287.56; [7446-20-0]
Melting Point: 100°C; **Density:** 3.54g/mL

ChemAlert* Storage Code GRAY

Zinc Sulfate Heptahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**Z68-500**	134.60	6/565.00
3kg	Poly Bottle	**Z68-3**	567.50	4/1659.00

Crystalline; 99 to 103 %; Salt of Vitriol, White Vitriol, $ZnSO_4{\cdot}7H_2O$
F.W. 287.58; [7446-20-0]; **Melting Point:** 100°C; **Density:** 3.54g/mL

ChemAlert* Storage Code GRAY

Zirconium Oxide Anhydrous — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z83-500**	167.22	6/716.79

Powder; Zirconium Dioxide, ZrO_2; **F.W.** 123.22; [1314-23-4]
C.I. 77990; **Melting Point:** >2500°C

ChemAlert* Storage Code GRAY

Fisher Scientific

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Prices subject to change.

Before You Buy **Fisher BioReagents Agarose**

Fisher BioReagents

General Information

Fisher BioReagents offers three different grades of agarose that are functionally tested and pre-qualified for specific applications involving nucleic acids:

Genetic Analysis Grade

Agarose that yeilds Biologically active DNA or RNA. Testing includes enzymatic performance measurements.

Molecular Biology Grade

Suitable for analytical separation of DNA or RNA.

PCR Grade

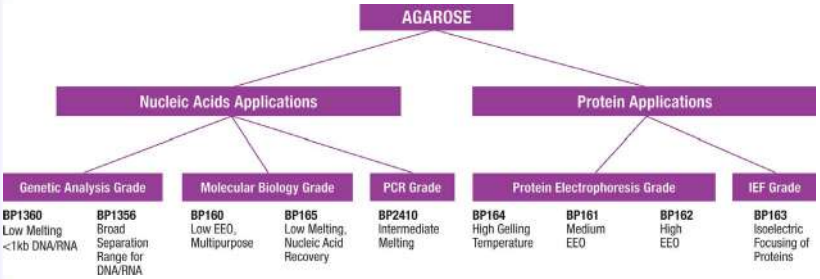
The original agarose for analytical separation of PCR amplicons.

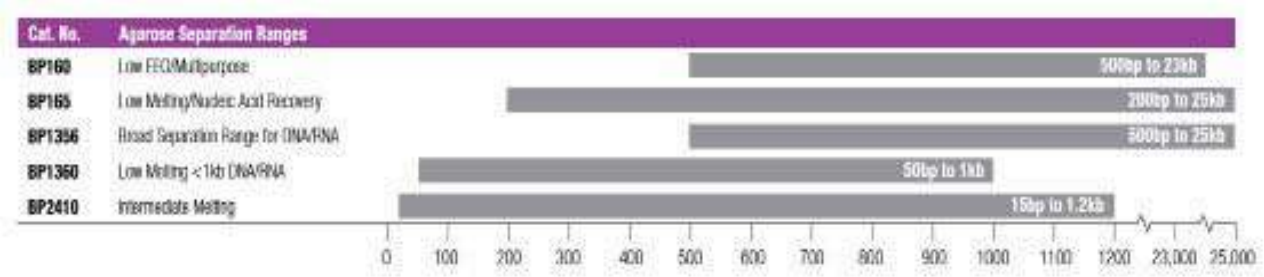
Product Information

Two Factors for Selecting Agarose

1. The size of DNS or RNA fragments to be analyzed (see graph belkow)

2. The type of downstream application that will follow electrophoretic separation (e.g., cloning procedures directly from remelted agarose or in-gel reaction).





Type of Agarose	Low EEO	Low Melting>200bp	Low Melting>1000bp	Wide Separation Range	PCR Grade
Cat.No.	**BP160**	**BP165**	**BP1360**	**BP1356**	**BP2410**
Recovery of DNA and RNA	•	•	•	•	•
Southern and Northern Blots	•				
DNA/RNA separation 50bp to 1kb			•		•
DNA/RNA separation > 1kb	•	•		•	
PCR fragments analysis	•	•	•	•	•
In-gel reactions (ligation, transformations, PCR)			•		
Colony lifts	•				

Acetic Acid, Glacial — Sequencing-Grade, Aldehyde-Free

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass	**BP1185-500**	54.80	6/254.50

ACID — ChemAlert® Storage Code RED

Aldehyde-free Acetic Acid is suitable for DNA sequencing and other biological applications. Colorless Liquid; ≥99.7 %; $C_2H_4O_2$; CH_3COOH
F.W. 60.05 [64-19-7]; **Melting Point:** 16° to 16.5°C/60.8° to 61.7°F
Flash Point: 40°C/104°F; **Boiling Point:** 117° to 118°C/242.6 ° to 244.4°F
Density: 2.10 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 2789; For DNA sequencing and other biological applications such as DNA/RNA electrophoresis.
Recommended Storage: RT

Acetic Acid, Glacial — Certified ACS Plus

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass	**BP2401-212**	244.50	----

ACID — ChemAlert® Storage Code RED

Acetic Acid, Glacial can be used for several biochemical procedures.; Vinegar Acid, $C_2H_4O_2$ CH_3COOH; **F.W.** 60.05; [64-19-7]; **DOT Class 8**: Corrosive **UN** 2789; 17.4N
Recommended Storage: RT

Acetonitrile — DNA Synthesis

Quantity	Packaging	Cat.No.	Each	Case of
450mL	Amber Glass	**BP1170-450**	50.33	6/238.60
4L	Glass Bottle	**BP1170-4**	349.50	4/1113.00
19L	NOWPAK I	**BP1170N1-19**	1167.00	----

SOLVENT — ChemAlert® Storage Code RED

Acetonitrile Anhydrous is commonly used in DNA or peptide synthesis.; ≥99.9 %; C_2H_3N; **F.W.** 41.05 [75-05-8]; **Melting Point:** –45°C
Flash Point: 12.8°C/55.0°F; **Boiling Point:** 81.6°C; **Density:** 1.42 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1648
Recommended Storage: RT

Acrylamide — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP170-100**	102.10	6/496.50
500g	Poly Bottle	**BP170-500**	272.50	6/1365.00
5kg	Poly Pail	**BP170-5**	1694.00	----

ChemAlert® Storage Code BLUE

This Acrylamide is 3X recrystallized to obtain a high-purity crystalline material suitable for electrophoretic separation of proteins and nucleic acids.; White, Needle-like Crystals; DNase-, RNase- and Protease-Free; ≥99.9 % C_3H_5NO CH_2:$CHCONH_2$; **F.W.** 71.08; [79-06-1]
Melting Point: 82° to 86°C/179.6° to 186.8°F; **Flash Point:** 138°C/280.4°F
Boiling Point: 125°C at 25 mmHg **Density:** 2.45 (Air = 1.0)
DOT Class 6.1: Poison; **UN** 2074; Ultra-Pure, Triple-Crystallized.
Recommended Storage: RT

Acrylamide Solution — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1L	HDPE Container	**BP1402-1**	226.50	----

ChemAlert® Storage Code BLUE

40% Acrylamide Solution is made from 3X recrystallized acrylamide and is suitable for electrophoretic separation of proteins and nucleic acids.; C_3H_5NO; [79-06-1, 7732-18-5]
Melting Point: 83° to 85°C/181.4° to 185°F; **Boiling Point:** 125°C at 25 mm Hg; **Density:** 2.45 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 2810
Recommended Storage: 4°C

Acrylamide: Bis-Acrylamide 19:1 — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**BP1406-1**	306.50	----

ChemAlert® Storage Code BLUE

This Acrylamide Solution is premixed for 5% cross-linking and is suitable for DNA sequencing and separation of low-molecular-weight proteins.; Colorless Liquid DNase-, RNase- and Protease-Free; [79-06-1, 110-26-9, 7732-18-5]
DOT Class 6.1: Poison; **UN** 2810; For DNA sequencing and separation of low-molecular-weight proteins.
19:1 concentration is based on the total weight of both the acrylamide and bis-acrylamide.
Recommended Storage: 4°C

Acrylamide: Bis-Acrylamide 29:1 — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**BP1408-1**	270.00	----

ChemAlert® Storage Code BLUE

This Acrylamide Solution is premixed for 3.3% cross-linking and is suitable for DNA sequencing and separation of proteins. Colorless Liquid; DNase-, RNase- and Protease-Free [79-06-1, 110-26-9, 7732-18-5]; **DOT Class 6.1**: Poison; **UN** 2810
For DNA sequencing and separation of low-molecular-weight proteins.
29:1 concentration is based on the total weight of both the acrylamide and bis-acrylamide.
Recommended Storage: 4°C

Acrylamide: Bis-Acrylamide 29:1 — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP1366-100**	131.50	----

ChemAlert® Storage Code BLUE

This dry powder mix is premixed for 3.3% cross-linking and is suitable for DNA sequencing and separation of proteins. Powder; [79-06-1, 110-26-9]; **DOT Class 6.1**: Poison; **UN** 2074
Recommended Storage: RT

Acrylamide: Bis-Acrylamide 37.5:1 — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**BP1410-1**	319.00	----

ChemAlert® Storage Code BLUE

This Acrylamide Solution is premixed for 2.6% cross-linking and is suitable for separation of high-molecular-weight proteins. Colorless Liquid; DNase-, RNase- and Protease-Free [79-06-1, 110-26-9, 7732-18-5]; **DOT Class 6.1**: Poison; **UN** 2810
For DNA sequencing and separation of high-molecular-weight proteins.
37.5:1 concentration is based on the total weight of both the acrylamide and bis-acrylamide.
Recommended Storage: 4°C

Acrylamide: Bis-Acrylamide 37.5:1 — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP1368-100**	132.50	----

ChemAlert® Storage Code BLUE

This dry powder mix is premixed for 2.6% cross-linking and is suitable for separation of high-molecular-weight proteins. Powder; [79-06-1, 110-26-9]; **DOT Class 6.1**: Poison; **UN** 2074
Recommended Storage: RT

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Actinomycin-D

Quantity	Packaging	Cat.No.	Each	Case of
5mg	Poly Micro Tube	**BP606-5**	126.60	----
10mg	Poly Micro Tube	**BP606-10**	198.39	----

This antibiotic is a widely used transcription inhibitor.
Red Crystals; ≥98 %; $C_{62}H_{86}N_{12}O_{16}$; **F.W.** 1255.44; [50-76-0]
Melting Point: 245° to 252°C/473° to 485.6°F; Isolated from *Streptomyces parvuius* .
Recommended Storage: 4°C

ChemAlert® Storage Code: BLUE

AEBSF Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
50mg	Poly Micro Tube	**BP635-50**	120.10	----
500mg	Poly Micro Tube	**BP635-500**	438.50	----

This specific, irreversible inhibitor of serine proteases is a stable, nontoxic alternative to PMSF.; White to Off-white Crystals; ≥98.0 %; 4-(2-Aminoethyl)-Benzenesulfonyl Fluoride HCl, Pefabloc*, $C_8H_{10}FNO_2SHCl$; **F.W.** 239.70; [30827-99-7]
Melting Point: 175° to 177C; **Recommended Storage:** RT

ChemAlert® Storage Code: GRAY

Agarose — Genetic Analysis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP1360-100**	478.50	6/2400.00

White Powder; DNase- and RNase-Free; $C_{12}H_{18}O_9$
F.W. 306.12; [9012-36-6]; **Density:** 1.7g/mL; Low melting temperature agarose. Certified recovery of small nucleic acid fragments. Outstanding resolution of PCR and RT-PCR fragments from 50 to 1000 bp. In-gel PCR. In-gel ligations/transformations.
For recovery and resolution of small DNA fragments (50bp - 1000bp)
Gel Strength: >500 g/cm². EEO (-Mr): <0.15
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose — Molecular Biology- Grade

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**BP165-25**	226.00	6/1148.00

DNase- and RNase-Free; $C_{12}H_{18}O_9$; **F.W.** 306.12; [9012-36-6]
Density: 1.7g/mL; Original low melting temperature agarose for separation of nucleic acids from 200 bp to 25kb. Preparative DNA and RNA electrophoresis. Ideally suited for DNA and RNA recovery. Cloning of tissue culture cells and viral plaque assays.
For nucleic acid separation (200 bp to 25kb)
Gel Strength: >200g/cm². EEO (-Mr): <0.1
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose — Genetic Analysis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP1356-100**	282.00	6/1271.00
500g	Poly Bottle	**BP1356-500**	1193.00	6/5080.00

White Powder; DNase- and RNase-Free; $C_{12}H_{18}O_9$
F.W. 306.12; [9012-36-6]; **Density:** 1.7g/mL; Routine nucleic acid electrophoresis; broad resolution range 500 bp to 25kb. Certified for recovery of DNA and RNA. Reliable digestion and ligation of r ecovered DNA or RNA fragments. Cloning.
For routine nucleic acid electrophoresis (500bp - 25kb).
Gel Strength: >1200g/cm². EEO (-Mr): <0.15.
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose — PCR Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP2410-100**	418.50	6/2100.00

White Crystalline Powder; DNase- and RNase-Free; $C_{12}H_{18}O_9$
F.W. 306.12; [9012-36-6]; **Density:** 1.7g/mL
Separation of low MW DNA ≤1,000 bp by PCR analysis.
Gel Strength: >1,200g/cm²; EEO (-Mr): <0.1 2; **Recommended Storage:** RT

ChemAlert® Storage Code: GRAY

Agarose — Protein Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP164-100**	279.50	6/1384.00
500g	Poly Bottle	**BP164-500**	946.00	6/4840.00

White Crystals or Crystalline Powder; DNase- and RNase-Free; $C_{12}H_{18}O_9$; **F.W.** 306.12; [9012-36-6]; Typically used in protein electrophoresis applications such as CIEP (counter-immunoelectrophoresis).
For counter-immunoelectrophoresis
Gel Strength: >800 g/cm². EEO (-Mr): <0.1.
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP160-100**	205.00	6/1020.00
500g	Poly Bottle	**BP160-500**	678.50	6/3030.00

White Crystals or Crystalline Powder; DNase- and RNase-Free; $C_{12}H_{18}O_9$; [9012-36-6]; **Density:** 1.7g/mL
Routine electrophoresis of DNA and RNA; wide resolution range 500 bp to 23kb. High gel strength ideal for Southern and Northern blotting. PCR >1kb. Immunoprecipitation techniques. Baculovirus screening. Colony lifts.
For routine electrophoresis of DNA and RNA (wide resolution range 500 bp to 23kb)
Gel Strength: >1200g/cm². EEO (-Mr): 0.09 - 0.13.
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose — Protein Electrophoresis Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP161-100**	279.50	6/1419.00

Ideal alternative to polyacrylamide for serum protein electrophoresis. Immunoelectrophoresis. Electrophoresis of nucleic acids.; $C_{12}H_{18}O_9$; **F.W.** 306.12; [9012-36-6]; **Density:** 1.7g/mL
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose — Protein Electrophoresis Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP162-100**	275.69	6/1371.42

Immunoelectrophoresis (IEP). Crossed-IEP. Counter-immunoelectrophoresis (CIEP). Serum protein electrophoresis.; $C_{12}H_{18}O_9$; **F.W.** 306.12; [9012-36-6]; **Density:** 1.7g/mL
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

Agarose Gel-Loading Dye, 6X — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Poly Bottle	**BP633-5**	93.30	----

This tracking dye is added to DNA and RNA samples prior to electrophoresis on agarose gels.; [915-67-3, 26873-85-8]
Recommended Storage: RT

ChemAlert® Storage Code: GRAY

4-(2-Aminoethyl)benzenesulfonyl Fluoride Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP2644-1**	737.50	9/5640.00

ChemAlert® Storage Code GRAY

4-(2-Aminoethyl)benzenesulfonyl Fluoride Hydrochloride is a covalent binding serine protease inhibitor.
White Powder ≥97 %; AEBSF, $C_8H_{10}FNO_2SHCl$; **F.W.** 239.7; [30827-99-7]
Similar in structure to the commonly used inhibitor PMSF, AEBSF offers better solubility in water, lower toxicity, greater stability and higher inhibitory activity.
AEBSF belongs to the family of irreversible sulfonyl fluoride inhibitors that block trypsin and chymotrypsin-type enzymes.
Recommended Storage: RT, protect from light.

Ammonium Acetate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP326-500**	79.90	6/373.50
1kg	Glass Bottle	**BP326-1**	137.30	4/445.00

ChemAlert® Storage Code GRAY

Ammonium Acetate can be used to precipitate DNA from enzymatic reactions.; White Crystals; ≥97 %
Acetic Acid Ammonium Salt, $C_2H_7NO_2$; CH_3COONH_4; **F.W.** 77.08 [631-61-8]; **Melting Point:** 110°C; **Flash Point:** 136°C/276.8°F
Density: 1.07g/mL; **Recommended Storage:** 4°C

Ammonium Bicarbonate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP2413-500**	97.00	6/459.50

ChemAlert® Storage Code GRAY

Ammonium Bicarbonate is used for many biochemical applications.; Fine, White Crystalline Powder; 21.30 to 21.73 % Acid Ammonium Carbonate, Ammonium Hydrogen Carbonate, CH_5NO_3; NH_4HCO_3; **F.W.** 79.06; [1066-33-7]
Melting Point: 105°C; **Recommended Storage:** RT

Ammonium Persulfate — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**BP179-25**	41.80	6/190.60
100g	Glass Bottle	**BP179-100**	52.80	6/247.00

ChemAlert® Storage Code YELLOW

Electrophoresis-grade Ammonium Persulfate is an initiator of acrylamide polymerization for the preparation of polyacrylamide electrophoresis gels.; Colorless-to-white Crystals ≥98.0 %; APS, Ammonium Peroxydisulfate, $H_8N_2O_8S_2$; $(NH_4)_2S_2O_8$ **F.W.** 228.19; [7727-54-0]; **Melting Point:** 120°C; **Density:** 1.980g/mL
DOT Class 5.1: Oxidizer; **UN** 1444; **Recommended Storage:** RT

Ammonium Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP212R-1**	75.00	6/350.50
2.5kg	Poly Bottle	**BP212-212**	197.10	4/655.50

ChemAlert® Storage Code GRAY

This enzyme-grade Ammonium Sulfate is suitable for use in the purification of proteins.; Sulfuric Acid Diammonium Salt, Diammonium Sulfate, $H_8N_2O_4S$; $(NH_4)_2SO_4$; **F.W.** 132.14; [7783-20-2]
Recommended Storage: RT

Amphotericin B

Quantity	Packaging	Cat.No.	Each	Case of
250mg	Amber Glass	**BP928-250**	101.20	----

ChemAlert® Storage Code GRAY

Amphotericin B is an antibiotic used for controlling microbial contamination in tissue culture applications.
Yellow Powder; $C_{47}H_{73}NO_{17}$; **F.W.** 924.09; [1397-89-3]
Melting Point: >170°C; **Recommended Storage:** –20°C

Ampicillin Sodium Salt

Quantity	Packaging	Cat.No.	Each	Case of
5g	Poly Bottle	**BP1760-5**	70.60	----
25g	Poly Bottle	**BP1760-25**	97.40	6/463.00

ChemAlert® Storage Code BLUE

For selection for ampicillin resistance in mutated and transformed cells. Antimicrobial spectrum: Gram-negative and Gram-positive bacteria.; Crystalline Powder; Ampicillin, $C_{16}H_{18}N_3O_4SNa$; **F.W.** 371.39; [69-52-3]; **Melting Point:** 215.00°C
For selection for ampicillin resistance in mutated and transformed cells.
Recommended Storage: 4°C

Ampicillin Trihydrate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**BP902-25**	103.40	----

ChemAlert® Storage Code GRAY

Off-white Powder; $C_{16}H_{19}N_3O_4S{\cdot}3H_2O$; **F.W.** 403.25; [7177-48-2]
Melting Point: 197.8°C; **Recommended Storage:** 4°C

L-Arginine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP370-100**	74.40	6/347.50

ChemAlert® Storage Code GRAY

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder; 98.5 to 101.0 %; $C_6H_{14}N_4O_2$; **F.W.** 174.2; [74-79-3]
Melting Point: 223° to 224°C; **Density:** 1.3g/mL; **Recommended Storage:** RT

L-Arginine Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP372-100**	70.10	6/339.50

ChemAlert® Storage Code GRAY

The hydrochloride salt of L-Arginine is suitable for use in tissue culture systems requiring additives and has many of the same applications as L-Arginine.; White Crystals or Crystalline Powder; 98.5 to 101.0 %; $C_6H_{14}N_4O_2ClH$; **F.W.** 210.58; [1119-34-2]
Melting Point: 226° to 230°C; **Boiling Point:** 235°C
Recommended Storage: RT

L-Ascorbic Acid

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP351-500**	121.10	6/587.50

ChemAlert® Storage Code GRAY

Ascorbic Acid is suitable for use in tissue culture systems requiring additives.; White Crystalline Powder; ≥99.0 %
Vitamin C, $C_6H_8O_6$; **F.W.** 176.13; [50-81-7]; **Melting Point:** 190°C
Density: 1.65g/mL; Not for human use.
Recommended Storage: RT

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Benzamidine Hydrochloride Hydrate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**BP435-25**	112.18	6/550.37

Benzamidine Hydrochloride is commonly used as a protease inhibitor.; White Crystalline Powder; ≥99.0 %; Benzamidinium Chloride, $C_7H_8N_2HCl$; **F.W.** 156.61; [1670-14-0, 206752-36-5]
Melting Point: 167° to 171°C; **Recommended Storage:** 4°C

ChemAlert® Storage Code GRAY

Bicine

Quantity	Packaging	Cat.No.	Each	Case of
250g	Poly Bottle	**BP2646-250**	176.60	4/592.50
1kg	Poly Bottle	**BP2646-1**	623.50	6/3200.00

Bicine is one of the zwitterionic amino acids known as Good buffers. Used as a biological buffer and chelating agent. White Powder; N,N-bis [2-hydroxyethyl]glycine, $C_6H_{13}NO_4$ $(HOCH_2CH_2)_2NCH_2COOH$; **F.W.** 163.2; [150-25-4]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

D-Biotin

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP232-1**	114.50	6/556.00

D-Biotin, which forms a stable complex with Avidin, is useful in the study of Avidin-Biotin interactions and in affinity chromatography.; ≥99 %; Vitamin B_7, $C_{10}H_{16}N_2O_3S$; **F.W.** 244.31 [58-85-5]; **Melting Point:** 228.9°C; Not for human use.
Recommended Storage: –20°C

ChemAlert® Storage Code GRAY

Bis-Acrylamide — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**BP171-25**	69.57	6/329.82
100g	Poly Bottle	**BP171-100**	144.60	6/703.00

Bis-Acrylamide is a cross-linker commonly used in the preparation of polyacrylamide electrophoresis gels.; ≥95 % N,N'–Methylene-bis-acrylamide, $C_7H_{10}N_2O_2$; $CH_2CHCONHCH_2NHCOCHCH_2$ **F.W.** 154.17; [110-26-9]; **Melting Point:** >300°C; **Density:** 5.31 (Air = 1.0)
Recommended Storage: 4°C

ChemAlert® Storage Code GRAY

Bis-Tris

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP301-100**	124.20	6/603.00

This biological buffer has a usable pH range of 5.8 to 7.2. Fine White Crystals; ≥99 %; 2-(Bis-2(hydroxyethyl)imino)-2-(hydroxymethyl)-1,3-propanediol, 2,2-Bis(hydroxymethyl)-2,2?,2?-nitrilotriethanol, Bis(2-hydroxyethyl)amino-tris(hydroxymethyl) methane, $C_8H_{19}NO_5$; $(HOCH_2CH_2)_2NC(CH_2OH)_3$; **F.W.** 209.24; [6976-37-0]
Melting Point: 103° to 104°C/217.4° to 219.2°F
Commonly used buffering agent. **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Blasticidin S Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
25mg	Amber Glass	**BP2647-25**	182.90	10/1582.00
50mg	Amber Glass	**BP2647-50**	284.50	5/1236.00
100mg	Amber Glass	**BP2647-100**	487.50	5/2120.00

White Powder; ≥99.0 %; BLA-S, Cytovirin, $C_{17}H_{26}N_8O_5{\cdot}HCl$
F.W. 458.69; [3513-03-9]; **Melting Point:** 248° to 252°C/478.4° to 485.6°F; **Recommended Storage:** 0° to 5°C

ChemAlert® Storage Code BLUE

Boric Acid — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP168-500**	60.50	6/288.00
1kg	Poly Bottle	**BP168-1**	96.60	6/467.00

This high-purity electrophoresis-grade reagent is used in the preparation of Tris/Borate/EDTA electrophoresis buffers. Crystalline; DNase-Free; ≥99 %; H_3BO_3; **F.W.** 61.83; [10043-35-3]
Melting Point: 169°C; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Brij* 35

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP345-500**	53.03	6/251.13

This nonionic detergent is used for solubilizing proteins and isolating membrane complexes.; Polyoxyethylene (23) Lauryl Ether, $C_{58}H_{118}O_{24}$; $C_{12}H_{25}(OCH_2CH_2)_n$; **F.W.** 1199.56; [9002-92-0]
Melting Point: 40° to 42°C; Avg. Molecular Wt.: ~600.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Brilliant Blue G-250

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**BP100-25**	142.20	6/691.50

Brilliant Blue G-250 is a general protein stain. Coomassie* Blue G-250, $C_{47}H_{48}N_3O_7S_2Na$; **F.W.** 854.02; [6104-58-1]
C.I. 42655; **Density:** > 1.0g/mL; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Brilliant Blue R-250

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**BP101-25**	105.10	6/510.50
50g	Amber Glass	**BP101-50**	174.60	6/872.50

Brilliant Blue R-250 is commonly used for staining proteins in polyacrylamide gels.; Coomassie Blue R-250, $C_{45}H_{44}N_3NaO_7S_2$ **F.W.** 825.96; [6104-59-2]; **C.I.** 42660; **Melting Point:** 174° to 180°C
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Bromophenol Blue Sodium Salt

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**BP114-25**	165.10	6/803.00

Bromophenol Blue Sodium Salt is commonly used as a tracking dye in electrophoresis.; 3,3',5,5'-Tetrabromophenolsulfonphthalein sodium salt, $C_{19}H_9Br_4NaO_5S$; **F.W.** 691.94; [62625-28-9]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

5-Bromo-4-chloro-3-indolyl- β-D-galactopyranoside

Quantity	Packaging	Cat.No.	Each	Case of
100mg	Glass Bottle	**BP1615-100**	115.90	6/563.50
1g	Glass Bottle	**BP1615-1**	517.00	6/2610.00

X-Gal is a chromogenic substrate used for blue-white selection of recombinant bacterial colonies with the lac+ genotype. It is also used for immunoblotting and immunocy X-Gal, $C_{14}H_{15}BrClNO_6$; **F.W.** 408.63; [7240-90-6]; **Melting Point:** 230°C
For blue/white colony screening, immunoblotting and immunocytochemical assays.
Recommended Storage: –20°C

ChemAlert® Storage Code GRAY

Cacodylic Acid

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle/ Poison Pack	**BP324-100**	333.00	----

ChemAlert® Storage Code BLUE

Cacodylic Acid is used in buffers for DNA sequencing and recombinant DNA procedures.; Crystalline; ≥99 % Dimethylarsinic Acid, $C_2H_7AsO_2$; $(CH_3)_2As(O)OH$; **F.W.** 138.01 [75-60-5]; **Melting Point:** 192.22°C; **Boiling Point:** 200°C
DOT Class 6.1: Poison; **UN** 1572; **Recommended Storage:** RT

Calcium Chloride Dihydrate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP510-100**	38.30	----
250g	Poly Bottle	**BP510-250**	55.20	6/270.00
500g	Poly Bottle	**BP510-500**	74.10	6/362.50

ChemAlert® Storage Code GRAY

Calcium Chloride is suitable for use in the preparation of buffer solutions.; White Crystals to Powder; 99.0 to 105.0 % $CaCl_2{\cdot}2H_2O$; **F.W.** 147.02; [10035-04-8, 10043-52-4]
Melting Point: 175°C; **Density:** 0.830g/mL; **Recommended Storage:** RT

CAPS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP321-500**	382.50	4/1278.00

ChemAlert® Storage Code GRAY

This biological buffer has a usable pH range of 9.7 to 11.1. Fine White Crystals; ≥98 %; 3-Cyclohexylamino-1-propanesulfonic Acid, $C_9H_{19}NO_3S$; $C_6H_{11}NH(CH_2)_3SO_3H$; **F.W.** 221.32; [1135-40-6]
Melting Point: 324°C; **Flash Point:** 110°C/230°F
Recommended Storage: RT

Carbenicillin

Quantity	Packaging	Cat.No.	Each	Case of
250mg	Amber Glass	**BP2648-250**	60.10	----
1g	Amber Glass	**BP2648-1**	147.10	----
5g	Amber Glass	**BP2648-5**	399.50	6/2010.00

ChemAlert® Storage Code GRAY

Used for the selection of ampicillin-resistant transformed cells and for the study of penicillin-sensitive transpeptidases in cell wall biosynthesis. Antimicrobial spectrum: Gram-positive and Gram-negative bacteria, Pseudomonas.; White Powder; ≥92 % α_1-Carboxybenzylpenicillin, $C_{17}H_{16}N_2Na_2O_6S$; **F.W.** 422.4; [4800-94-6]
Used for the selection of ampicillin-resistant transformed cells.
Potency: ≥770mcg/mg.
Recommended Storage: 0° to 5°C

Cefotaxime, Sodium Salt

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP2951-1**	161.18	----

Dry, White or off-white crystalline powder; $C_{16}H_{16}N_5NaO_7S_2$
F.W. 477.5; [64485-93-4]; Inhibitor of bacterial cell wall synthesis.
Eliminates Agrobacterium species after inoculation.

Cesium Chloride

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP1595-500**	470.50	6/2370.00
1kg	Poly Bottle	**BP1595-1**	646.61	6/3268.15

ChemAlert® Storage Code GRAY

This economical grade of Cesium Chloride can be used where low levels of metal ion impurities do not interfere.
It is recommended for isolating phage DNA, plasmid DNA, or total RNA.; Crystalline Powder; DNase-, RNase- and Protease-Free ≥99.5 %; CsCl; **F.W.** 168.36; [7647-17-8]; **Melting Point:** 646°C
Boiling Point: 1303°C; **Density:** 3.99g/mL; For isolation of phage DNA, plasmid DNA, or total RNA.
Recommended Storage: RT

Cesium Chloride — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP210-100**	208.00	6/1043.00
500g	Poly Bottle	**BP210-500**	635.00	6/3210.00
1kg	Poly Bottle	**BP210-1**	967.00	6/4790.00

ChemAlert® Storage Code GRAY

This Molecular Biology-grade cesium chloride is ideal for UV analysis of nucleic acids during density-gradient centrifugation and for the isolation of plasmid DNA, phage DNA, virus particles, and RNA.; White Crystalline Powder; DNase-, RNase- and Protease-Free; ≥99.999 %; CsCl; **F.W.** 168.36; [7647-17-8]
Melting Point: 646°C; **Boiling Point:** 1303°C; **Density:** 3.99g/mL
For nucleic acid purification .
Ultra-Pure
Recommended Storage: RT

CHAPS

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP571-1**	89.82	6/425.56
5g	Amber Glass	**BP571-5**	212.50	6/1110.00

ChemAlert® Storage Code GRAY

CHAPS is a Zwitterionic detergent used for solubilizing membrane proteins.; White Crystalline Powder; ≥98 % 3-[(3-Cholamidopropyl) dimethylammonio]-1-propanesulfonate, $C_{32}H_{58}N_{207}S$; **F.W.** 614.9; [75621-03-3];
Melting Point: 267° to 271°C/513° to 521°F; **Recommended Storage:** RT

Chloramphenicol

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP904-100**	189.70	6/986.00

ChemAlert® Storage Code GRAY

Used as a seletion agent for transformed cells containing chloramphenicol resistance genes. Mode of Action: Inhibits translation on the 50S ribosomal subunit at the peptidyltransferase step (elongation inhibition).; Crystalline Powder; 97% Chloromycetin, D-(?)-threo-2,2-Dichloro-N-[?-hydroxy-?-(hydroxymethyl)-?-(4-nitrophenyl)ethyl]acetamide, $C_{11}H_{12}Cl_2N_2O_5$; **F.W.** 323.13; [56-75-7]
Melting Point: 149° to 153°C/300.2° to 307.4°F
For selecting transformed cells containing chloramphenicol resistance genes. **Recommended Storage:** RT

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Chloroform — Molecular Biology Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP1145-1**	75.30	6/444.50

SOLVENT

ChemAlert® Storage Code BLUE

This solvent is used in Phenol/Chloroform extractions to remove proteins from DNA or RNA samples. Colorless Liquid; ≥99 % (by GC); $CHCl_3$; **F.W.** 119.38 [64-17-5, 67-66-3]; **Melting Point:** –63°C; **Boiling Point:** 60.5° to 61.5°C/140.9° to 142.7°F; **Density:** 4.12 (Air = 1.0); **DOT Class 6.1**: Poison **UN** 1888; Extractions to remove proteins from DNA or RNA samples. With preservative.
Recommended Storage: RT

Citric Acid Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP339-500**	51.40	6/252.00

ChemAlert® Storage Code GRAY

Anhydrous citric acid is suitable for use in tissue culture systems requiring additives.; Crystalline; ≥99.5 %; $C_6H_8O_7$; **F.W.** 192.13 [77-92-9]; **Melting Point:** 153°C; **Recommended Storage:** RT

Copper (II) Sulfate Pentahydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP346-500**	76.30	6/354.00

ChemAlert® Storage Code BLUE

Copper Sulfate is suitable for use in tissue culture systems requiring additives.; Crystalline (Blue); 98.0 to 102.0 % Cupric Sulfate Pentahydrate, Blue Vitriol, $CuO_4S{\cdot}5H_2O$; **F.W.** 249.68 [7758-98-7, 7758-99-8]; **Melting Point:** 110°C; **DOT Class 9**: Miscellaneous
Recommended Storage: RT

Cyanocobalamin

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP862-1**	104.10	----

ChemAlert® Storage Code GRAY

Cyanocobalamin is used as a supplement in cell culture and tissue culture media.; Crystalline (Dark Red); ≥98 % Vitamin B_{12}, $C_{63}H_{88}CoN_{14}O_{14}P$; **F.W.** 1355.38; [68-19-9]
Melting Point: >300°C; **Boiling Point:** >300°C; Not for human use.
Recommended Storage: –4°C

L-Cysteine Hydrochloride Monohydrate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP376-100**	100.70	6/487.00

ChemAlert® Storage Code GRAY

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals; 98.5 to 101 % $C_3H_7NO_2S{\cdot}HCl{\cdot}H_2O$; **F.W.** 175.64; [7048-04-6]
Melting Point: 175° to 177.8°C; **Recommended Storage:** RT

Denhardt's Reagent — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Amber Glass	**BP515-5**	105.70	6/513.50

ChemAlert® Storage Code GRAY

Denhardt's Reagent is used as a blocking agent in DNA hybridizations.; [26873-85-8 (Ficoll), 9003-39-8 (Polyvinylpyrrolidone), 9048-46-8 (Bovine Albumin)]
Recommended Storage: –20°C

Deoxycholic Acid Sodium Salt

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP349-100**	143.70	6/698.00

ChemAlert® Storage Code GRAY

This anionic detergent is useful for solubilizing and isolating membrane-bound proteins in an active state. Fine White Crystalline Powder; ≥99 %; Sodium Deoxycholate, 3-alpha,12-alpha-Dihydroxy-5-beta-cholan-24-oic acid, sodium salt, $C_{24}H_{39}NaO_4$; **F.W.** 414.58; [302-95-4]; **Melting Point:** 357° to 365°C For solubilizing and isolating membrane-bound proteins in an active state.
Recommended Storage: RT

Dextran

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP1580-100**	277.00	----

ChemAlert® Storage Code GRAY

Dextran may be used with Polyethylene Glycol under certain conditions in the fractionation of proteins, cells, virus particles, and other macromolecules. Dextran at neutral pH may be autoclaved. White to Off-white Powder; [9004-54-0]; Average M.W. of 500,000.
Recommended Storage: RT

Dextran Sulfate Sodium Salt

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP1585-100**	316.50	6/1580.00
500g	Poly Bottle	**BP1585-500**	1481.00	6/7380.00

ChemAlert® Storage Code GRAY

Dextran Sulfate accelerates the rate of hybridization of DNA or RNA bound to membranes and may be used in Southern and Northern blotting procedures.; White to Off-white Powder [9011-18-1]; For Southern and Northern blotting procedures. Average M.W. of 500,000. **Recommended Storage:** RT

Dextrose Anhydrous — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP350-500**	63.30	6/295.50
1kg	Poly Bottle	**BP350-1**	72.10	6/336.50

ChemAlert® Storage Code GRAY

Dextrose is often used as a cell culture additive. Crystalline Granules; DNase-, RNase- and Protease-Free ≥99.8 %; Glucose, $C_6H_{12}O_6$; $HOCH_2(CHOH)_4CHO$; **F.W.** 180.08; [50-99-7]
Melting Point: 146.1°C; **Density:** 1.54g/mL; Cell culture additive. Low metal ion content: ≤0.0005%.
Recommended Storage: RT

N,N-Diisopropylethylamine — Peptide Synthesis

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**BP592-500**	229.50	----

SOLVENT

ChemAlert® Storage Code RED

N,N-Diisopropylethylamine is commonly used in peptide synthesis reactions.; ≥99 %; DIEA, $C_8H_{19}N$ **F.W.** 129.24; [7087-68-5]; **Melting Point:** –46°C; **Flash Point:** 6°C/42.8°F; **Boiling Point:** 127° to °C; **Density:** 0.782g/mL **DOT Class 3**: Flammable Liquid (n.o.s.); **UN** 1993
Recommended Storage: RT

N,N-Dimethylformamide — Synthesis Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**BP1160-500**	107.10	6/507.00
4L	Glass Bottle	**BP1160-4**	250.50	4/797.50

SOLVENT

N,N-Dimethylformamide is commonly used in automated synthesis procedures.
≥99.5 %; MF, C_3H_7NO; $HCONCH_3CH_3$
F.W. 73.09; [68-12-2]; **Melting Point:** –61°C
Flash Point: 58°C/136.4°F; **Boiling Point:** 153°C
Density: 2.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 2265; **Recommended Storage:** RT

Dimethyl Sulfoxide

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**BP231-100**	39.50	6/187.90
1L	Glass Bottle	**BP231-1**	115.20	6/545.50
4L	Glass Bottle	**BP231-4**	329.50	4/1073.00

ChemAlert® Storage Code GRAY

DMSO is a cryopreservation agent for cells, and may also be used in bacterial transformations.; Colorless Liquid
≥99.7 %; DMSO, C_2H_6OS; $(CH_3)_2SO$
F.W. 78.13; [67-68-5]; **Melting Point:** 18.4°C
Flash Point: 87°C/188.6°F; **Boiling Point:** 189°C
Density: 2.7 (Air = 1.0); For cryopreservation and bacterial transformation.
Note: Sold for nonmedical use only. Not to be used or sold as a drug for humans or animals. **Recommended Storage:** RT

Dithiothreitol — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**BP172-5**	137.40	6/669.00
25g	Glass Bottle	**BP172-25**	504.50	6/2560.00

ChemAlert® Storage Code GRAY

Dithiothreitol is used to reduce disulfide bonds in proteins and peptides and is added in low concentrations as an enzyme stabilizer during protein purification and enzymatic reactions.
White Crystals or Powder; DNase-, RNase- and Protease-Free; ≥99 %
DTT, Cleland's Reagent, $C_4H_{10}O_2S_2$; $HSCH_2CH(OH)CH(OH)CH_2SH$
F.W. 154.24; [3483-12-3]; **Melting Point:** 38° to 43°C
Boiling Point: 125° to 130°C at 2 mmHg; **Recommended Storage:** –20°C

Doxorubicin Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1mg	Amber Glass	**BP2516-1**	51.70	5/201.00
5mg	Amber Glass	**BP2516-5**	148.00	5/599.00
10mg	Amber Glass	**BP2516-10**	265.00	5/1108.00
50mg	Amber Glass	**BP2516-50**	1051.00	5/4420.00

ChemAlert® Storage Code GRAY

Doxorubicin HCL is a chemotherapeutic agent. Antitumor, immunosuppressive, and antibiotic agent. It blocks RNA polymerase and reverse transcriptase. Also inhibits nucleic acid synthesis.; Reddish-orange Powder; (by HPLC): ≥95%
Adriamycin, 14-Hydroxydaunomycin, HCl, $C_{27}H_{29}NO_{11}HCl$
F.W. 580; [25316-40-9] **Recommended Storage:** 2° to 8°C

Doxycycline Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP2653-1**	45.15	9/313.00
5g	Amber Glass	**BP2653-5**	116.50	9/847.50

ChemAlert® Storage Code GRAY

Broad spectrum antibiotic. Broad spectrum inhibitor of matrix metalloproteinases in vivo.; Yellow Powder; 95%; $C_{22}H_{24}N_2O_8HCl$
F.W. 480.9; [10592-13-9]; Broad spectrum antibiotic.
Recommended Storage: 0° to 5°C, light sensitive, desiccate.

Electrode Storage Solution

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**BP2418-1**	61.90	6/302.00

ChemAlert® Storage Code GRAY

Electrode Storage Solution is a safe and convenient method to maintain sensitivity by removing buildup from electrodes.; For use in storage of pH electrodes.
Recommended Storage: RT

Erythromycin

Quantity	Packaging	Cat.No.	Each	Case of
25g	Poly Bottle	**BP920-25**	135.80	----

ChemAlert® Storage Code GRAY

Erythromycin is used as an inhibitor in cell-free protein biosynthesis.; White Crystalline Powder; 85%; E-Mycin, Erythrocin, $C_{37}H_{67}NO_{13}$; **F.W.** 733.94; [114-07-8]
Melting Point: 138° to 140°C/280.4° to 284°F; **Recommended Storage:** RT

Ethanol — Molecular Biology Grade

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**BP2818-100**	37.35	6/186.80
500mL	Glass Bottle	**BP2818-500**	65.10	6/329.50
4L	Glass Bottle	**BP2818-4**	243.50	4/827.50

ChemAlert® Storage Code RED

Colorless Liquid; DNase-, RNase- and Protease-Free
≥99.5 % (v/v); Ethyl Alcohol, C_2H_6O; C_2H_5OH; **F.W.** 46.07; [64-17-5]
Melting Point: –114°C; **Flash Point:** 12°C/53.6°F; **Boiling Point:** 78°C
For nucleic acid purification and precipitation.
Ultrapure molecular biology grade ethanol is used for the purification and precipitation of biomolecules such as nucleic acids and proteins.
It is also used in histology to prepare staining and destaining reagents and for dehydrating tissues prior to embedding.

Ethidium Bromide — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
10mL	Amber Poly Bottle	**BP1302-10**	66.10	----

ChemAlert® Storage Code BLUE

Ethidium Bromide is an intercalating dye used in the visualization of DNA and RNA in electrophoresis gels and cesium chloride density gradients.; Reddish-Brown Liquid; DNase-, RNase- and Protease-Free; $C_{21}H_{20}N_3Br$; **F.W.** 394.33; [1239-45-8, 7732-18-5]
DOT Class 6.1: Poison; **UN** 2810; For visualization of DNA and RNA in electrophoresis gels and cesium chloride density gradients.
0.2mm filtered.; **Recommended Storage:** RT

Ethidium Bromide

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP102-1**	57.50	6/275.50
5g	Amber Glass	**BP102-5**	190.20	6/950.00

ChemAlert® Storage Code BLUE

Used for fluorometric detection of double stranded nucleic acids. Also acts as an RNA polymerase inhibitor, and in separation of high molecular weight DNAs.; $C_{21}H_{20}BrN_3$; **F.W.** 394.32; [1239-45-8]
Melting Point: 260° to 262°C; **DOT Class 6.1**: Poison; **UN** 2811
Recommended Storage: RT

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Prices subject to change.

Ethyl Acetate — Sequencing Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP1125-1**	77.79	6/359.90

This solvent is commonly used in DNA or peptide synthesis.; ≥99.9 %; $C_4H_8O_2$; $CH_3COOCH_2CH_3$
F.W. 88.11; [141-78-6]; **Melting Point:** –83.5°C
Flash Point: –4°C/+24.8°F; **Boiling Point:** 75° to 78°C/167° to 171.5°F
Density: 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid **UN** 1173
Recommended Storage: RT

SOLVENT
ChemAlert® Storage Code RED

Ethylene Glycol

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP230-1**	69.50	6/322.50
4L	Glass Bottle	**BP230-4**	189.70	4/615.00

Due to its property as an antifreeze, Ethylene Glycol may be used for the storage of enzymes at low temperatures.
≥99 %; 1,2-Ethanediol, $C_2H_6O_2$; $HOCH_2CH_2OH$; **F.W.** 62.06; [107-21-1]
Melting Point: –13°C; **Flash Point:** 116°C/240.8°F; **Boiling Point:** 196° to 198°C; **Density:** 2.14 (Air = 1.0); **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Ethylenediamine Tetraacetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP2482-100**	68.30	6/332.50
500mL	Poly Bottle	**BP2482-500**	87.30	6/424.50
1L	Nalgene Poly Bottle	**BP2482-1**	119.80	6/593.50
20L	Poly CUBE	**BP2482-20**	502.50	----

EDTA is used extensively in molecular biology to minimize metal ion impurities in reaction buffers. Ideal for DNA work.; Clear, Colorless Liquid; EDTA, $C_{10}H_{16}N_2O_8$ $(HOOCCH_2)_2NCH_2CH_2N(CH_2COOH)_2$; **F.W.** 292.25; [60-00-4, 7732-18-5]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Ethylenediamine Tetraacetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP118-500**	101.80	6/492.50

EDTA is a chelating agent for metal ions and is used extensively in molecular biology to minimize metal ion impurities in reaction buffers.; White Crystalline Powder; ≥99.5 %; EDTA (Free Acid), $C_{10}H_{16}N_2O_8$; $(HOOCCH_2)_2NCH_2CH_2N(CH_2COOH)_2$; **F.W.** 292.23 [60-00-4]; **Melting Point:** 220°C; **Density:** 0.86g/mL
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Ethylenediamine Tetraacetic Acid, Dipotassium Salt Dihydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP119-500**	183.70	6/918.00

The dipotassium salt of EDTA is used in place of the disodium salt where sodium would interfere with the reaction.
White Crystalline Powder; ≥99.0 %
EDTA, Dipotassium Salt, $C_{10}H_{14}N_2O_8K_2 \cdot 2H_2O$
$(HOOCCH_2)_2NCH_2CH_2N(CH_2COOK)_2 \cdot 2H_2O$
F.W. 404.47; [25102-12-9]; **Melting Point:** 272°C (decom)
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Ethylenediamine Tetraacetic Acid, Disodium Salt Dihydrate — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP120-500**	116.50	6/566.00
1kg	Poly Bottle	**BP120-1**	183.00	6/621.50

The disodium salt of EDTA is a chelating agent for metal ions and is used extensively in molecular biology to minimize metal ion impurities in reaction buffers.; Crystalline Powder
≥99.0 %; EDTA, Disodium Salt, Sodium Versenate, $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
$(HO_2CCH_2)_2NCH_2CH_2N(CH_2CO_2Na)_2 \cdot 2H_2O$
F.W. 372.23; [6381-92-6]
Melting Point: 252°C; For minimization of metal ion impurities in reaction buffers.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Ficoll* 400 — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
5g	Poly Bottle	**BP525-5**	78.20	6/370.42
10g	Poly Bottle	**BP525-10**	101.10	6/489.00
25g	Poly Bottle	**BP525-25**	198.50	6/1016.00
100g	Poly Bottle	**BP525-100**	434.00	6/2180.00
500g	Poly Bottle	**BP525-500**	1720.00	6/8680.00

Ficoll 400 is used as a component of Denhardt's Reagent and in gel-loading buffers for DNA gels. It is also used in forming density gradients to separate cells and subcellular components.; White to Off-white Powder
F.W. ≈400,000; [26873-85-8]; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Formaldehyde — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
25mL	Glass Bottle	**BP531-25**	39.75	6/189.00
500mL	Glass Bottle	**BP531-500**	53.40	6/257.50

Molecular Biology-grade Formaldehyde is used for denaturing RNA.; 36.5 to 38.0 %; Formalin, Formic Aldehyde Solution, Formol, Methanal, Methylene Oxide, CH_2O; HCHO
F.W. 30.02; [50-00-0, 67-56-1, 7732-18-5]; **Melting Point:** –15°C
Flash Point: 50°C/122°F; **Boiling Point:** 97°C; **Density:** >1.0
DOT Class 3: Flammable Liquid; **UN** 1198; Components: 37% Formaldehyde, 15% Methyl Alcohol and 48% Water
Recommended Storage: RT

ChemAlert® Storage Code RED

Formamide

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Amber Glass	**BP228-100**	76.10	6/355.50

Super Pure Formamide has been pretreated with a mixed-bed resin so that it is ready for use in nucleic acid hybridization and sequencing.; Colorless Liquid; ≥99.5 %
CH_3NO; $H_2NCH{:}O$; **F.W.** 45.04; [75-12-7]; **Melting Point:** 2° to 3°C
Boiling Point: 210°C; **Density:** 1.133g/mL; For nucleic acid hybridization and sequencing.
Recommended Storage: 4°C

ChemAlert® Storage Code GRAY

Formamide — Molecular Biology Grade

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**BP227-100**	87.70	6/409.00
500mL	Glass Bottle	**BP227-500**	208.00	6/1013.00

ChemAlert* Storage Code GRAY

Molecular Biology-grade Formamide is commonly used in nucleic acid hybridization and sequencing. It requires pretreatment with a mixed-bed resin.; Colorless Liquid; ≥99 % CH_3NO; $H_2NCH{:}O$; **F.W.** 45.04; [75-12-7]; **Melting Point:** 2° to 3°C **Boiling Point:** 210°C; **Density:** 1.133g/mL; For nucleic acid hybridization and sequencing.
Recommended Storage: 4°C

Formic Acid — Sequencing

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**BP1215-500**	102.00	6/480.00

ACID

ChemAlert* Storage Code WHITE

Formic Acid is used in Maxam-Gilbert DNA sequencing reactions and other biological applications.; ≥88.0 %; CH_2O_2; HCOOH; **F.W.** 46.02 [64-18-6, 7732-18-5]; **Melting Point:** 8°C; **Flash Point:** 60°C/140°F **Boiling Point:** 101°C; **Density:** 1.220g/mL; **DOT Class 8**: Corrosive **UN** 1779; **Recommended Storage:** RT

D-Galactose

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP656-500**	113.40	6/551.00

ChemAlert* Storage Code GRAY

D-Galactose is suitable for use in cell culture systems requiring sugar additives.; White to Off-white Powder; ≥98 % $C_6H_{12}O_6$; **F.W.** 180.08; [59-23-4]; **Melting Point:** 167°C
Suitable for use in cell culture systems requiring sugar additives.
Recommended Storage: RT

G418 Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP673-1**	162.70	----
5g	Amber Glass	**BP673-5**	574.50	----

ChemAlert* Storage Code GRAY

White to Off-white Powder; > 98 %; $C_{20}H_{40}N_4O_{10}{\cdot}2H_2SO_4$ **F.W.** 692.7; [108321-42-2]; Mode of Action: Blocks polypeptide synthesis by inhibiting protein synthesis at the level of the 70S and 80S ribosomes.
For use in the selection and maintenance of cells stably transfected with neomycin resistance genes.
Recommended Storage: –20°C

Gentamycin Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP918-1**	113.50	----

ChemAlert* Storage Code GRAY

Gentamycin Sulfate inhibits protein synthesis, preventing microbial contamination in tissue culture applications. It is also used to confer antibiotic resistance/ sensitivity in molecular biology procedures.; White Powder Gentiomycin C, Garamycin, $C_{21}H_{43}N_5O_7{\cdot}H_2SO_4$; **F.W.** 575.67; [1405-41-0] **Melting Point:** 217.8° to 237.2°C/424° to 459°F; For selecting transformed cells containing gentamycin resistance gene.
Recommended Storage: 4°C

L-Glutamic Acid

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP378-100**	43.01	6/204.01

ChemAlert* Storage Code GRAY

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder; 99.0 to 100.5 %; $C_5H_9NO_4$; **F.W.** 147.13; [56-86-0]
Melting Point: 205°C; **Density:** 1.54g/mL; **Recommended Storage:** RT

Glutaraldehyde Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP2547-1**	199.90	6/995.50

ChemAlert* Storage Code BLUE

49.0 to 52.0 %; Pentanedial, Glutaral, $C_5H_8O_2$; $HC(O)(CH_2)_3CHO$ **F.W.** 100.12; [111-30-8, 7732-18-5]; **Melting Point:** –15°C **Boiling Point:** 101.5°C at 740 mmHg; **Density:** 1.05 (Air = 1.0) **DOT Class 6.1**: Poison; **UN** 2927; **Recommended Storage:** 4°C

Glycerol — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP229-1**	120.30	6/585.00
4L	Glass Bottle	**BP229-4**	407.00	4/1285.00

ChemAlert* Storage Code GRAY

Glycerol is used for low-temperature storage of enzymes and bacterial cultures, purification of proteins, and as a component in electrophoresis loading buffers.; Colorless Liquid; DNase-, RNase- and Protease-Free; ≥99.5 %; Glycerin, $C_3H_8O_3$ $HOCH_2CH(OH)CH_2OH$; **F.W.** 92.09; [56-81-5]; **Melting Point:** 20°C **Flash Point:** 160°C/320°F; **Boiling Point:** 290°C; **Density:** 3.17 (Water = 1.0)
For low-temperature storage of enzymes and bacterial cultures.
Recommended Storage: RT

Glycine

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP381-500**	58.90	6/275.00
1kg	Poly Bottle	**BP381-1**	96.10	6/448.50
5kg	Poly Pail	**BP381-5**	317.00	----

ChemAlert* Storage Code GRAY

Glycine is used in the preparation of Tris–Glycine electrophoresis buffers and culture media.
White Crystals or Crystalline Powder; 98.5 to 101.0 % Aminoacetic Acid, Aminoethanoic acid, Gyn-Hydralin, Gly, $C_2H_5NO_2$ **F.W.** 75.07; [56-40-6]; **Melting Point:** 182° to 236°C/359.6° to 456.8°F **Density:** 1.595g/mL; For preparation of Tris-Glycine electrophoresis buffers.
Low metal ion content: ≤10ppm.
Recommended Storage: RT

D-Glycogen

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**BP676-5**	323.00	----

ChemAlert* Storage Code GRAY

Glycogen is used as a carrier in precipitating DNA or RNA in place of sonicated DNA or tRNA.; Beef Liver, White to Straw-yellow Crystals; $(C_6H_{10}O_5)n$; [9005-79-2]
Recommended Storage: 4°C

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Prices subject to change.

Guanidine Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP178-500**	213.50	6/1072.00
1kg	Poly Bottle	**BP178-1**	373.00	6/1873.00

Guanidine Hydrochloride is a strong protein-denaturing agent used in the isolation of RNA from cell extracts.
RNase activity is inhibited in the presence of this reagent.
Colorless-to-white Crystals; ≥99.5 %; Guanidinium Chloride, Guanidine Chloride, CH_5N_3·HCl; $H_2NC(NH_2)$:NH·HCl; **F.W.** 95.53; [50-01-1]
Melting Point: 179° to 186°C; **Density:** 1.340g/mL; For isolation of RNA from cell extracts.
Recommended Storage: RT

ChemAlert® Storage Code BLUE

Guanidine Thiocyanate

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**BP221-250**	167.70	6/848.50
1kg	Poly Bottle	**BP221-1**	621.50	4/2100.00

A more powerful denaturing agent than Guanidine Hydrochloride, Guanidine Thiocyanate is suitable for the isolation of intact RNA from cell extracts.; White Crystalline Powder
≥99.0 %; Guanidinium Isothiocyanate, $C_2H_6N_4S$; $H_2NC(:NH)NH_2$·HSCN
F.W. 118.16; [593-84-0]; **Melting Point:** 118° to 122°C/244.4° to 251.6°F
For the isolation of intact RNA from cell extracts.
Recommended Storage: RT

ChemAlert® Storage Code BLUE

Heparin Sodium

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**BP2425**	331.50	6/1659.00

Heparin Sodium is an anticoagulant used in biochemical research procedures.; White to Grayish-brown Powder
Heparin Sodium Salt, [9041-08-1]; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Heparin

Quantity	Packaging	Cat.No.	Each	Case of
10mg	Poly Vial	**BP2524-10**	54.50	10/424.00
100mg	Poly Vial	**BP2524-100**	273.00	5/1140.00
250mg	Poly Vial	**BP2524-250**	619.00	5/2610.00

Heparin is used as an anticoagulant in biochemical research.
F.W. ≈ 5000; [9041-08-1]; Low Molecular Weight.
Sodium Salt
Recommended Storage: RT

ChemAlert® Storage Code GRAY

HEPES — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP310-100**	102.70	6/499.00
500g	Poly Bottle	**BP310-500**	331.00	6/1661.00
1kg	Poly Bottle	**BP310-1**	567.00	4/1907.00
5kg	Poly Pail	**BP310-5**	2490.00	----

HEPES is commonly used as a buffering agent.
Fine White Crystals; DNase-, RNase- and Protease-Free
≥99 %; N-(2-Hydroxyethyl)piperazine-N'-2-ethanesulfonic Acid, $C_8H_{18}N_2O_4S$; **F.W.** 238.3; [7365-45-9]; **Melting Point:** 234° to 238°C/453.2° to 460.4°F; Commonly used buffering agent.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

HEPES Buffer — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP299-100**	78.30	6/365.50
500mL	Poly Bottle	**BP299-500**	214.00	6/952.00
1L	Nalgene Poly Bottle	**BP299-1**	357.00	6/1867.00

HEPES is commonly used as a buffering agent.
Colorless Liquid; DNase-, RNase- and Protease-Free
N-(2-Hydroxyethyl)piperazine-N'-2-ethanesulfonic Acid, $C_8H_{18}N_2O_4S$;
F.W. 238.197; [7365-45-9, 7732-18-5]; Commonly used buffering agent.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

HEPES Sodium Salt

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP410-500**	468.00	6/2200.00
1kg	Poly Bottle	**BP410-1**	964.00	4/3280.00

HEPES Sodium Salt is used as a buffer for in vitro cell culture.
White Powder; ≥99 %; $C_8H_{17}N_2O_4SNa$; **F.W.** 260.28; [75277-39-3]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

HEPES — For biochemistry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC17257-0050**	1905.00	----

Biological buffer; 99%
2-[4-(2-Hydroxyethyl)-1-piperazine]ethanesulfonic acid, $C_8H_{18}N_2O_4S$
F.W. 238.3; [7365-45-9]; **Melting Point:** 234° to 238°C/453.2° to 460.4°F

L-Histidine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP382-100**	100.85	6/495.24

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder; 98.5 to 101.0 %; $C_6H_9N_3O_2$; **F.W.** 155.16; [71-00-1]
Melting Point: 282°C; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Hyamine Hydroxide™

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**BP2658-500**	1091.72	6/5503.73

Clear Solution; Tissue Solubilizer, Hydroxide of Hyamine, $C_8H_{45}NO_3$; **F.W.** 443.7; [26248-39-5]; **Flash Point:** 11°F
DOT Class 3: Flammable Liquid; **UN** 2924; Used to trap CO_2 and as a solubilizer for biological tissue and polyacrylamide gel slices.
This product is a 1M solution of methyl benzothonium hydroxide in methanol.
Recommended Storage: RT

ChemAlert® Storage Code RED

Hydrogen Peroxide

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**BP2633-500**	65.10	6/276.50

Hydrogen Peroxide is used as an antiseptic and for decomposition of inorganic and organic samples.
(as H2O2, %wt): 29.0to32.0%; Hydrogen Dioxide, Hydroperoxide, H_2O_2; **F.W.** 34.01; [7722-84-1, 7732-18-5]; **Melting Point:** –33°C
Boiling Point: 108°C; **Density:** 1.10; **DOT Class 5.1**: Oxidizer; **UN** 2014
Recommended Storage: RT

ChemAlert® Storage Code YELLOW

Imidazole — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
50g	Poly Bottle	**BP305-50**	282.50	6/1417.00

Imidazole is an excellent biological buffer with a usable pH range of 6.2 to 7.8.; DNase-, RNase- and Protease-Free ≥99 %
1,3-Diaza-2,4-cyclopentadiene, Glyoxaline, $C_3H_4N_2$
HNCH:CHN:CH; **F.W.** 68.08; [288-32-4]
Melting Point: 86° to 90°C/186.8° to 194°F; **Flash Point:** 145°C/293°F
DOT Class 8: Corrosive; **UN** 3263; Commonly used buffering agent.
Recommended Storage: RT

ChemAlert* Storage Code WHITE

L-Isoleucine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP384-100**	213.00	6/1071.00

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder; 98.5 to 101.0 %; $C_6H_{13}NO_2$; **F.W.** 131.17; [73-32-5]
Melting Point: 284° to 286°C/543.2° to 546.8°F; **Recommended Storage:** RT

ChemAlert* Storage Code GRAY

Isopropanol, 99.9% — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass, EcoSafPak	**BP2632-4**	160.50	4/531.50

Isopropanol is used for precipitating nucleic acids.
Also meets ACS specifications; 2-Propanol, Isopropyl Alcohol, C_3H_8O; $(CH_3)_2CHOH$
F.W. 60.10; [67-63-0]; **Melting Point:** –89.5°C
Boiling Point: 81° to 83°C; **Density:** 0.785g/mL
DOT Class 3: Flammable Liquid; **UN** 1219; Submicron Filtered.
Recommended Storage: RT

SOLVENT

ChemAlert* Storage Code RED

Isopropyl-β-D-thiogalactopyranoside

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**BP1755-1**	66.80	6/312.00
10g	Glass Bottle	**BP1755-10**	470.50	----
100g	Glass Bottle	**BP1755-100**	2960.00	6/14870.00

≥99 % (by TLC); IPTG, $C_9H_{18}O_5S$
F.W. 238.31; [367-93-1]; **Melting Point:** 105°C
Flash Point: 110°C/230°F; For blue-white selection of recombinant bacterial colonies.
IPTG is commonly used in cloning procedures that require induction of β-galactosidase activity.
It is used in conjunction with X-gal in blue-white selection of recombinant bacterial colonies that induce expression of the lac operon in *Escherichia coli.* **Recommended Storage:** 4°C

ChemAlert* Storage Code GRAY

Isopropyl-β-D-thiogalactopyranoside

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**BP1620-1**	67.70	----
10g	Glass Bottle	**BP1620-10**	443.00	----

White Powder, Dioxane Crystallized; IPTG, $C_9H_{18}O_5S$
F.W. 238.3; [123-91-1, 367-93-1]
Melting Point: 122° to 126°C/251.6° to 258.8°F
Flash Point: 110°C/230°F; For blue-white selection of recombinant bacterial colonies. IPTG is commonly used in cloning procedures that require induction of -galactosidase activity.
It is used in conjunction with X-gal in blue-white selection of recombinant bacterial colonies that induce expression of the lac operon in *Escherichia coli* . **Recommended Storage:** –20°C

ChemAlert* Storage Code GRAY

Kanamycin Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Poly Bottle	**BP906-5**	70.70	----

White Powder; $C_{18}H_{36}N_4O_{11}\cdot H_2SO_4$
F.W. 582.58; [25389-94-0]; For selecting transformed cells containing kanamycin resistance gene.
Recommended Storage: RT

ChemAlert* Storage Code GRAY

L-Leucine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP385-100**	74.60	6/348.50

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder; 98.5 to 101.0 %; $C_6H_{13}NO_2$; **F.W.** 131.17; [61-90-5]
Melting Point: 286° to 288°C/546.8° to 550.4°F; **Recommended Storage:** RT

ChemAlert* Storage Code GRAY

Lithium Dodecyl Sulfate — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**BP1309-25**	90.43	----

Lithium Dodecyl Sulfate (LDS) is a detergent used for dissociating proteins.; Powder or Flakes; ≥99 %
$C_{12}H_{26}O_4SLi$; $CH_3(CH_2)_{11}OSO_3Li$; **F.W.** 273.18; [2044-56-6]
Boiling Point: 65.56°C; **Recommended Storage:** RT

ChemAlert* Storage Code GRAY

L-Lysine Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP386-100**	53.80	6/263.50

This amino acid is suitable for use in tissue culture systems requiring additives.; White Powder; 98.5 to 100.5 %
$C_6H_{14}N_2O_2\cdot HCl$; **F.W.** 182.65; [657-27-2]
Melting Point: 263° to 264°C; **Recommended Storage:** RT

ChemAlert* Storage Code GRAY

D-(+)-Maltose Monohydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP684-500**	126.10	6/612.00

Maltose is suitable for use in cell culture systems requiring sugar additives.; White to Off-white Powder; ≥97 %
$C_{12}H_{22}O_{11}\cdot H_2O$; **F.W.** 360.29; [6363-53-7]; **Melting Point:** 130°C
Density: 1.54g/mL; **Recommended Storage:** RT

ChemAlert* Storage Code GRAY

Magnesium Acetate Tetrahydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP215-500**	88.10	6/426.00

Magnesium Acetate is suitable for use in the preparation of buffer solutions and is required as a stabilizer for all stages of bacteriophage purification.; ≥99.0 %; $C_4H_6O_4Mg\cdot 4H_2O$
$(CH_3COO)_2Mg\cdot 4H_2O$; **F.W.** 214.46; [16674-78-5]; **Melting Point:** 80°C
Density: 7.4; **Recommended Storage:** RT

ChemAlert* Storage Code GRAY

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Magnesium Chloride Hexahydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP214-500**	74.40	6/347.00

Magnesium Chloride is suitable for use in the preparation of buffer solutions.; ≥99.0 %; $Cl_2Mg{\cdot}6H_2O$; **F.W.** 203.31 [7786-30-3, 7791-18-6]; **Melting Point:** 117°C; **Density:** 1.56g/mL
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Magnesium Sulfate Heptahydrate

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP213-1**	147.80	6/473.50

Magnesium Sulfate is suitable for use in the preparation of buffer solutions.; 98.0 to 102.0 % $MgSO_4{\cdot}7H_2O$; **F.W.** 246.47; [10034-99-8]; **Density:** 1.68g/mL
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Manganese Chloride — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP541-100**	78.30	6/370.93

Manganese Chloride is used for dC and dG tailing of DNA. Clear, Light-pink Solution; Manganese Dichloride, Manganous Chloride, [7732-18-5, 7773-01-5]; 0.2-micron filtered solution in 18-megohm water.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

2-Mercaptoethanol — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
89.74mL	Amber Glass/ Poison Pack	**BP176-100**	87.10	----

2-Mercaptoethanol reduces disulfide linkages in proteins and peptides and is used in many enzymatic reactions as a protein stabilizer.; ≥98 %; 2-Hydroxy-1-ethanethiol, 2-Hydroxyethyl mercaptan, Thioglycol, C_2H_6OS; $HSCH_2CH_2OH$; **F.W.** 78.13; [60-24-2]
Melting Point: −100°C; **Boiling Point:** 157158°C; **Density:** 1.110g/mL
DOT Class 6.1: Poison; **UN** 2966; **Recommended Storage:** RT

ChemAlert® Storage Code RED

MES

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP300-100**	95.00	6/459.50

This biological buffer has a usable pH range of 5.5 to 6.7. Fine White Crystals; DNase- and RNase-Free; ≥98 % 2-(4-Morpholino)ethane Sulfonic Acid, 2-(N-Morpholino)ethanesulfonic acid hydrate, $C_6H_{13}NO_4S{\cdot}H_2O$; **F.W.** 213.2; [145224-94-8]
Melting Point: >300°C; Commonly used buffering agent.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

MES hydrate — For biochemistry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC17259-1000**	87.60	----
500g	Glass Bottle	**AC17259-5000**	353.00	----

99+%; $C_6H_{13}NO_4S{\cdot}xH_2O$; **F.W.** 195.23 [1266615-59-1]; **Melting Point:** 243.0°C

MES monohydrate — For biochemistry

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC32776-1000**	128.60	----

Biological buffer; 99+%; 2-(N-Morpholino)ethanesulfonic acid monohydrate, $C_6H_{13}NO_4S{\cdot}H_2O$; **F.W.** 213.25; [145224-94-8]
Melting Point: > 300.0°C

Methanol — Sequencing Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP1105-1**	70.90	6/328.00
4L	Glass Bottle	**BP1105-4**	105.40	4/330.50

Methanol is used in staining and destaining protein electrophoresis gels, in HPLC, and in other biological applications.; Liquid; Peroxides: ≤0.001%; ≥99.9 % Methyl Alcohol, CH_4O; CH_3OH; **F.W.** 32.04; [67-56-1]
Melting Point: −98°C; **Flash Point:** 12°C/53.6°F; **Boiling Point:** 64.7°C
Density: 1.11 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1230; Suitable for staining and destaining protein electrophoresis gels, in HPLC, and in other biological applications.
Recommended Storage: RT

SOLVENT

ChemAlert® Storage Code RED

L-Methionine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP388-100**	96.90	6/468.00

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder 98.5 to 100.5 %; $C_5H_{11}NO_2S$; **F.W.** 149.21; [63-68-3]
Melting Point: 276° to 279°C; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Methylene Blue

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP117-100**	155.10	6/791.50

$C_{16}H_{18}ClN_3S{\cdot}3H_2O$; **F.W.** 373.90; [7220-79-3]; **C.I.** 52015
Melting Point: 190°C; **Density:** 13 (Air = 1.0); **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Methylene Chloride

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**BP1186-4**	154.40	4/486.50

This solvent is often used in automated synthesis procedures.; ≥99.9 %; Dichloromethane, DCM, CH_2Cl_2 **F.W.** 84.93; [110-83-8, 513-35-9, 67-56-1, 75-09-2]
Melting Point: −97°C; **Boiling Point:** 40° to °C; **Density:** 2.93 (Air = 1.0)
DOT Class 6.1: Poison; **UN** 1593; **Recommended Storage:** RT

SOLVENT

ChemAlert® Storage Code BLUE

N-Methylpyrrolidinone

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**BP1172- 4**	295.00	4/985.50
19L	NOWPak I (Plastic Exterior)	**BP1172N1-19**	1201.00	----

N-Methylpyrrolidinone is used in automated oligonucleotide synthesis.; Colorless Liquid; (by GC): ≥99.8% N-Methyl-2-Pyrrolidinone, NMP, C_5H_9NO; **F.W.** 99.13; [872-50-4]
Melting Point: −24°C; **Flash Point:** 91°C/195.8°F; **Boiling Point:** 202° to °C
Density: 3.4 (Air = 1.0); For automated oligonucleotide synthesis.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Mineral Oil

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**BP2629-1**	69.10	6/262.00

ChemAlert® Storage Code GRAY

Mineral Oil can be used in PCR applications.
Liquid Petrolatum, Liquid Paraffin, [8042-47-5]
Flash Point: 160°C/320°F; **Boiling Point:** 260° to 427°C/500° to 800.1°F
Density: 0.83g/mL; **Recommended Storage:** RT

Mitomycin C

Quantity	Packaging	Cat.No.	Each	Case of
2mg	Amber Glass	**BP2531-2**	123.40	5/499.50
10mg	Amber Glass	**BP25312-10**	530.00	5/2240.00

ChemAlert® Storage Code BLUE

Inhibitor of DNA synthesis, nuclear division, and cancer cells. Antibacterial spectrum: Gram positive, gram negative, acid-fast bacilli.; Blue Powder; ≥98.0 %; $C_{15}H_{18}N_4O_5$; **F.W.** 334.3; [50-07-7]
Melting Point: 360°C; Antibacterial spectrum: gram positive, gram negative, acid-fast bacilli.
Potency: ≥850µg/mg. **Recommended Storage:** 4°C

Molecular Sieves, Grade 514

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP2631-500**	69.60	6/317.50

ChemAlert® Storage Code GRAY

Used for dehydration of liquids.; Aluminum Sodium Silicate, [1344-00-9, 1344-01-0, 12736-96-8, 1332-58-7, 14808-60-7]
Density: 2.1g/mL; Effective pore size: 4æ.
Base: Alumina-Silicate
Recommended Storage: RT

MOPS

Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP308-100**	116.30	6/565.00
500g	Poly Bottle	**BP308-500**	295.50	6/1481.00

ChemAlert® Storage Code GRAY

This biological buffer has a usable pH range of 6.5 to 7.9.
Fine White Crystals; DNase-, RNase- and Protease-Free
≥97 %; 3-(4-Morpholino)propane sulfonic acid, $C_7H_{15}NO_4S$
$CH_2CH_2OCH_2CH_2N(CH_2)_3SO_3H$; **F.W.** 209.26; [1132-61-2]
Melting Point: 277° to 282°C/530.6° to 539.6°F; **Flash Point:** 116°C/240.8°F
Commonly used buffering agent.
Recommended Storage: RT

Nystatin

Quantity	Packaging	Cat.No.	Each	Case of
5g	Amber Glass	**BP2949-5**	59.50	----

Dry, White or almost white powder; $C_{47}H_{75}NO_{17}$
F.W. 926.1; [1400-61-9]; **Melting Point:** >160°C; Alters membrane permeability and allows potassium ion leakage.

n-Octyl-β-D-Glucopyranoside

Quantity	Packaging	Cat.No.	Each	Case of
25g	Amber Poly Bottle	**BP585-25**	958.50	----

ChemAlert® Storage Code GRAY

n-Octyl-β-D-Glucopyranoside is a highly purified, nonionic detergent.
White Crystalline Powder; ≥98 %; $C_{14}H_{2806}$; **F.W.** 292.4; [29836-26-8]
Melting Point: 105°C; **Recommended Storage:** –20°C

Phosphate Buffered Saline

Quantity	Packaging	Cat.No.	Each	Case of
2 x 1L	Foil Pack	**BP665-1**	67.70	----

ChemAlert® Storage Code GRAY

This product provides a convenient way to make a 10X concentrated solution of standard Phosphate Buffer; each pack contains 98.8g for reconstitution in 1L of water.; White Granular Powder; PBS, [7647-14-5, 7558-79-4, 7778-77-0, 7447-40-7]
Commonly used buffer. pH (1X Solution): 7.3-7.5.
Recommended Storage: RT

Phosphate Buffered Saline

Quantity	Packaging	Cat.No.	Each	Case of
10L	Poly Bottle	**BP661-10**	60.80	6/297.50
50L	Poly Bottle	**BP661-50**	160.20	6/770.50

ChemAlert® Storage Code GRAY

This product provides a convenient way to make large volumes of standard 1X Phosphate Buffer; each bottle contains 98.9g or 492g for reconstitution in 10L or 50L of water, respectively.; White Granular Powder; DNase-, RNase- and Protease-Free; PBS, [7647-14-5, 7558-79-4, 7778-77-0, 7447-40-7]
Commonly used buffer.
pH (1X Solution): 7.3-7.5. **Recommended Storage:** RT

Phosphate Buffered Saline

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly CUBE	**BP2438-4**	132.70	----
20L	Poly CUBE	**BP2438-20**	354.00	----

ChemAlert® Storage Code GRAY

A standard phosphate buffer used in many biomolecular procedures.; Colorless Liquid; DNase-, RNase- and Protease-Free;
PBS, [7447-40-7, 7558-79-4, 7647-14-5, 7732-18-5, 7778-77-0]
Melting Point: >0°C; Standard buffer for many biomolecular procedures.
0.137M Sodium Chloride, 0.0027M Potassium Chloride, and 0.0119M Phosphates. 0.2mm filtered **Recommended Storage:** RT

Penicillin/Streptomycin Mixture

Quantity	Packaging	Cat.No.	Each	Case of
50mL	Plastic Bottle	**BP2959-50**	54.90	----

Liquid; [3810-74-0, 69-57-8, 7647-14-5, 7732-18-5]
Interferes with synthesis of bacterial cell wall. Inhibits protein synthesis binds to 30S ribosomal subunit.

Penicillin/Streptomycin/Glutamine Mixture

Quantity	Packaging	Cat.No.	Each	Case of
50mL	Plastic Bottle	**BP2960-50**	52.13	----

Liquid; [3810-74-0, 69-57-8, 7647-14-5, 56-85-9, 7732-18-5];
Interferes with synthesis of bacterial cell wall. Inhibits protein synthesis. Interferes with bacterial cell division.

Phenol

Quantity	Packaging	Cat.No.	Each	Case of
100g	Amber Glass/Poison Pack	**BP226-100**	159.70	----
500g	Amber Glass/Poison Pack	**BP226-500**	342.50	----

ChemAlert® Storage Code WHITE

Phenol is used in nucleic acid purification procedures.
Crystallized; ≥99.0 %; Carbolic Acid, Oxybenzene, C_6H_6O; C_6H_5OH
F.W. 94.11; [108-95-2]; **Melting Point:** 39° to 42°C/102.2° to 107.6°F
Flash Point: 79°C/174.2°F; **Boiling Point:** 182°C; **Density:** 3.2
DOT Class 6.1: Poison; **UN** 1671; **Recommended Storage:** 4°C

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Prices subject to change.

Phenol, Saturated

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Coated Amber Glass/Poison Pack	**BP1751I-100**	90.30	----
400mL	Coated Amber Glass/Poison Pack	**BP1751I-400**	164.90	----

ChemAlert® Storage Code WHITE

Phenol saturated with Tris buffer is used for purifying RNA. pH 4.3, Liquid; ≥99.0; [108-95-2]; **Flash Point:** 79.4°C/174.9°F **DOT Class 6.1**: Poison; **UN** 2821; For RNA purification . Capped with a layer of buffer. **Recommended Storage:** 4°C

Phenol, Saturated

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Coated Amber Glass/Poison Pack	**BP1750I-100**	91.60	----
400mL	Coated Amber Glass/Poison Pack	**BP1750I-400**	148.20	----

ChemAlert® Storage Code WHITE

Phenol saturated with Tris buffer is used in DNA extraction procedures.; pH 6.6/7.9, Liquid; DNase- and RNase-Free ≥99.0; [77-86-1]; **Flash Point:** 79°C/174.2°F; **DOT Class 6.1**: Poison **UN** 2821; Directions for Use For most DNA applications: 1) Add the entire contents of the small bottle of buffer to the large bottle of saturated phenol and gently mix. 2) Allow the layers to separate before use, about 2 to 4 hours. 3) The pH of the saturated phenol solution is now 7.9 ± 0.2. 4) After the addition of the buffer, the solution is stable for > six months when stored at 4°C. For DNA and RNA applications where a lower pH is more suitable: 1) The large bottle of saturated phenol should be used directly with no additions. 2) The pH of the large bottle of saturated phenol is 6.6 ± 0.2 and is stable for > one year when stored at 4°C. Capped with a layer of buffer. **Recommended Storage:** 4°C

Phenol/Chloroform/Isoamyl Alcohol

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Coated Amber Glass/Poison Pack	**BP1754I-100**	93.60	----
400mL	Coated Amber Glass/Poison Pack	**BP1754I-400**	238.00	----

ChemAlert® Storage Code WHITE

This mixture is used to purify total RNA from mixtures containing RNA, DNA, and protein.; [123-51-3] **DOT Class 6.1**: Poison; **UN** 2821; **Recommended Storage:** 4°C

Phenol/Chloroform/Isoamyl Alcohol

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Coated Amber Glass/Poison Pack	**BP1753I-100**	106.20	----
400mL	Coated Amber Glass/Poison Pack	**BP1753I-400**	250.00	----

ChemAlert® Storage Code WHITE

This mixture is used for extracting protein from nucleic acid preparations.; 25:24:1 Mixture, pH 5.2±0.3, Liquid; [67-66-3] **DOT Class 6.1**: Poison; **UN** 2821; **Recommended Storage:** 4°C

Phenol/Chloroform/Isoamyl Alcohol

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Coated Amber Glass/Poison Pack	**BP1752I-100**	84.30	----
400mL	Coated Amber Glass/Poison Pack	**BP1752I-400**	205.50	----

ChemAlert® Storage Code WHITE

This mixture is used for extracting protein from crude nucleic acid preparations.; 25:24:1 Mixture, pH 6.7/8.0, Liquid ≥99.0; [108-95-2]; **DOT Class 6.1**: Poison; **UN** 2821; For extraction of proteins from crude nucleic acid preparations. **Recommended Storage:** 4°C

L-Phenylalanine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP391-100**	115.09	6/565.41

ChemAlert® Storage Code GRAY

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder 98.5 to 100.5 %; $C_9H_{11}NO_2$; **F.W.** 165.19; [63-91-2] **Melting Point:** 270° to 275°C; **Density:** 0.754g/mL **Recommended Storage:** RT

Phorbol 12-Myristate 13-Acetate

Quantity	Packaging	Cat.No.	Each	Case of
1mg	Glass Ampule	**BP685-1**	106.00	----
5mg	Glass Ampule	**BP685-5**	240.00	
10mg	Glass Ampule	**BP685-10**	403.51	----

ChemAlert® Storage Code GRAY

PMA is an activator of Protein Kinase C; it is a skin irritant and mouse skin tumor promoter.; Clear or Whitish Film ≥99.0 %; PMA, $C_{36}H_{56}O_8$; **F.W.** 616.8; [16561-29-8] Film adheres to inside of vial. **Recommended Storage:** –20°C

Phosphate Buffered Saline

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**BP399-500**	41.90	6/200.50
1L	Nalgene Poly Bottle	**BP399-1**	74.60	6/359.50
4L	Poly CUBE	**BP399-4**	162.60	----
20L	Poly CUBE	**BP399-20**	505.50	----

ChemAlert® Storage Code GRAY

A concentrated, standard phosphate buffer solution. Colorless Liquid; DNase-, RNase- and Protease-Free PBS, [7732-18-5, 7647-14-5, 7447-40-7, 7558-79-4, 7778-77-0] Commonly used buffer. **Recommended Storage:** RT

PIPES, Sesquisodium Salt — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP304-100**	131.23	6/645.11
500g	Poly Bottle	**BP304-500**	507.50	6/2570.00

ChemAlert® Storage Code GRAY

This biological buffer has a usable pH range of 6.1 to 7.5. Fine White Crystals; DNase- and RNase-Free; ≥95 % 1,4-Piperazinediethanesulfonic acid sesquisodium salt, Piperazine-1,4-bis(2-ethanesulfonic acid) sesquisodium salt, $C_8H_{16}{\cdot}5N_2O_6S_{21}{\cdot}5Na$ **F.W.** 335.34; [100037-69-2]; **Melting Point:** >300°C; Commonly used buffering agent. **Recommended Storage:** RT

Polyethylene Glycol 8000

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP233-100**	65.60	6/306.00
1kg	Poly Bottle	**BP233-1**	100.30	4/323.00

ChemAlert® Storage Code GRAY

PEG 8000 is suitable as a medium for the fusion of mammalian cells. It is also used to precipitate bacteriophage from lysed cell supernatants.; PEG 8000, Polyethylene Oxide, Carbowax*, HO-[CH_2CH_2O]n-H; H(OCH_2CH_2)$_n$OH; **F.W.** 7000 to 9000; [25322-68-3]
Melting Point: 55° to 60°C/131° to 140°F; **Flash Point:** 270°C/518°F
Boiling Point: 200°C; **Density:** 1.1g/mL; **Recommended Storage:** RT

Polymixin B Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP2954-1**	145.86	----

Dry, White or off-white powder; $C_{55}H_{96}N_{16}O_{13}{\cdot}2H_2SO_4$; **F.W.** 1385.61 [1405-20-5]; Interferes with cytoplasmic membrane.

Polyvinylpyrrolidone

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP431-100**	51.90	6/243.00
500g	Poly Bottle	**BP431-500**	168.60	6/864.50

ChemAlert® Storage Code GRAY

Polyvinyl Pyrrolidone is a component of Denhardt's Reagent, commonly used in nucleic acid hybridization procedures.
≥95 %; Povidone, Polyvidone, PVP, (C_6H_9NO)n; [9003-39-8]
Melting Point: 100°C; **Density:** 1.1 to 1.3g/mL
Average Molecular Wt.: 40,000.
Recommended Storage: RT

Ponceau S

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**BP103-10**	48.00	6/232.00

Ponceau S is commonly used for staining serum and plasma proteins on nitrocellulose and cellulose acetate membranes.; $C_{22}H_{12}N_4Na_4O_{13}S_4$
F.W. 760.57; [6226-79-5]; **C.I.** 27195

Potassium Acetate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP364-500**	61.20	6/284.50

ChemAlert® Storage Code GRAY

This potassium salt can be used as a replacement for sodium acetate in ethanol precipitations. Also, bacteriophage λ can be purified through centrifugation in a potassium acetate density gradient.; Colorless Crystals or Powder; ≥99.0 %; Acetic Acid, Potassium Salt, $C_2H_3KO_2$; CH_3COOK; **F.W.** 98.14; [127-08-2]
Melting Point: 292°C; **Flash Point:** 250°C/482°F; For ethanol precipitations.
Low metal ion content: ≤5ppm.
Recommended Storage: RT

Potassium Carbonate Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP365-500**	65.70	6/307.00

ChemAlert® Storage Code GRAY

This potassium salt is used in buffers for molecular biology and cell culture applications.; White Granular Powder ≥99 %; Dipotassium Carbonate, CK_2O_3; **F.W.** 138.21; [584-08-7]
Melting Point: 891°C; **Density:** 2.43g/mL; **Recommended Storage:** RT

Potassium Chloride

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP366-500**	53.80	6/251.50
1kg	Poly Bottle	**BP366-1**	93.00	6/434.00

ChemAlert® Storage Code GRAY

Potassium Chloride is used in buffers for molecular biology and cell culture applications.; White Crystals; 99.0 to 100.5 % KCl
F.W. 74.55; [7447-40-7]; **Melting Point:** 773°C
Boiling Point: Sublimes at 1500°C; **Density:** 1.99g/mL; For molecular biology and cell culture applications.
Low metal ion content: ≤5ppm.
Recommended Storage: RT

Potassium Iodide

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP367-500**	287.50	6/1401.00

ChemAlert® Storage Code GRAY

This potassium salt is used in buffers for molecular biology and cell culture applications.; White, Free-flowing Granules ≥99.0 %; IK; **F.W.** 166; [7681-11-0]; **Melting Point:** 680°C
Boiling Point: 1330°C; For molecular biology and cell culture applications.
Low metal ion content: ≤5ppm.
Recommended Storage: RT

Potassium Nitrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP368-500**	81.20	6/376.50

ChemAlert® Storage Code YELLOW

Potassium Nitrate is used in buffers for molecular biology and cell culture applications.; Colorless-to-white Crystals ≥99.0 %; KNO_3; **F.W.** 101.1; [7757-79-1]; **Melting Point:** 334°C
Boiling Point: 400°C; **DOT Class 5.1**: Oxidizer; **UN** 1486
Recommended Storage: RT

Potassium Phosphate Dibasic

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP363-500**	100.80	6/487.50
1kg	Poly Bottle	**BP363-1**	165.90	6/805.50

ChemAlert® Storage Code GRAY

This potassium salt is used in buffers for molecular biology and cell culture applications.; Fine White Crystalline Powder ≥98.0 %; Phosphoric Acid, Dipotassium Salt, Potassium monohydrogen phosphate, HK_2O_4P; **F.W.** 174.18; [7758-11-4]; **Melting Point:** 340°C
For molecular biology and cell culture applications.
Low metal ion content: ≤5ppm.
Recommended Storage: RT

Potassium Phosphate Monobasic

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP362-500**	78.70	6/367.00
1kg	Poly Bottle	**BP362-1**	134.70	6/655.00

ChemAlert® Storage Code GRAY

This potassium salt is used in buffers for molecular biology and cell culture applications.; White Crystals; ≥99.0 %; Phosphoric Acid, Monopotassium Salt, Potassium acid phosphate, Potassium biphosphate, Potassium dihydrogen phosphate, KH_2PO_4
F.W. 136.09; [7778-77-0]; **Melting Point:** 252.6°C; **Density:** 2.34g/mL
For molecular biology and cell culture applications.
Low metal ion content: ≤0.001%.
Recommended Storage: RT

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L-Proline

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP392-100**	114.69	6/563.41

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder 98.5 to 101.0 %; $C_5H_9NO_2$; **F.W.** 115.13; [147-85-3]
Melting Point: 228° to 233°C/442.4° to 451.4°F; **Density:** 1.350g/mL
Recommended Storage: RT

ChemAlert® Storage Code GRAY

n-Propanol — Sequencing Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**BP1130-500**	48.17	6/223.06

n-Propanol is used for extracting ethidium bromide from DNA samples.; ≥99.5 %; 1-Propanol, C_3H_8O $CH_3CH_2CH_2OH$; **F.W.** 60.1; [71-23-8]
Melting Point: –127°C; **Flash Point:** 15°C/59°F; **Boiling Point:** 97° to °C
Density: 2.07; **DOT Class 3**: Flammable Liquid; **UN** 1274
Recommended Storage: RT

SOLVENT

ChemAlert® Storage Code RED

Protein Gel-Loading Dye for SDS-PAGE, 2X — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Poly Bottle	**BP637-5**	125.10	----

This dye is added to protein samples prior to electrophoresis on SDS–PAGE gels.; Dark-purple Liquid
[7732-18-5, 56-81-5, 77-86-1, 151-21-3, 7647-01-0]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Puromycin Dihydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
100mg	Clear Glass	**BP2956-100**	265.50	----

Dry, White or off-white powder; > 98 %; $C_{22}H_{29}N_7O_5$·2HCl
F.W. 544.44; [58-58-2]; **Melting Point:** 168° to 178°C/334.4° to 352.4°F
Inhibits protein synthesis.

Rapamycin

Quantity	Packaging	Cat.No.	Each	Case of
1mg	Clear Glass	**BP2963-1**	331.33	----

Dry, White or off-white powder; > 98 %; $C_{51}H_{79}NO_{13}$; **F.W.** 914.2
[53123-88-9]; **Boiling Point:** 183° to 185°C/361.4° to 365°F
Possesses immunosuppressive properties. Blocks a protein that is involved in cell division. A type of serine/threonine kinase inhibitor.

Saline-Sodium Citrate — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1325-1**	97.70	6/472.50
4L	Poly CUBE	**BP1325-4**	170.90	----
20L	PolyPac	**BP1325-20**	458.00	----

Saline–Sodium Citrate (SSC) is used as a buffer in Southern transfer protocols.; SSC Buffer
[6132-04-3, 68-04-2, 7647-14-5, 7732-18-5]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Saline-Sodium Phosphate-EDTA

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1328-1**	90.33	6/324.81

Saline–Sodium Phosphate–EDTA (SSPE) is used in bacterial screening and hybridization procedures.
SSPE Buffer, [7647-14-5, 7558-80-7, 60-00-4, 7732-18-5]
0.2M NaH_2PO_4, 3.0M NaCl, and 0.02M EDTA.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Sarkosyl

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP234-500**	141.90	6/689.50

This anionic detergent is used for the solubilization of membrane proteins.; ≥95 %; Sodium Lauroyl Sarcosinate, $C_{15}H_{28}O_3NNa$; $NaO_2CCH_2N(CH_3)CO(CH_2)_{10}CH_3$; **F.W.** 293.38
[137-16-6]; **Melting Point:** 45° to 47°C/113° to 117°F
Recommended Storage: RT

ChemAlert® Storage Code GRAY

L-Serine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP393-100**	148.37	6/729.32

White Crystals or Crystalline Powder; 98.5 to 101.0 %
$C_3H_7NO_3$; **F.W.** 105.05; [56-45-1]; **Melting Point:** 222°C
Application: This amino acid is suitable for use in tissue culture systems requiring additives.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Silver Nitrate — Molecular Biology Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP2546-100**	420.00	6/2140.00

Silver Nitrate is used in biochemistry to stain agarose and acrylamide gels. In histology, silver nitrate is used for silver staining to demonstrate reticular fibers, proteins and nucleic acids.; Crystalline; ≥99.7 %; Nitric acid silver(I) salt, $AgNO_3$
F.W. 169.87; [7761-88-8]; **Melting Point:** 212°C; **Boiling Point:** 433°C
Density: 4.35g/mL; **DOT Class 5.1**: Oxidizer; **UN** 1493; For silver staining .
Recommended Storage: RT

ChemAlert® Storage Code YELLOW

Sodium Acetate Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP333-500**	73.50	6/343.00
1kg	Glass Bottle	**BP333-1**	124.20	4/403.50

Sodium Acetate is added to DNA reactions to facilitate ethanol precipitation of the DNA.; White Crystals or Granular Powder ≥99.0 %; $C_2H_3O_2Na$; CH_3COONa; **F.W.** 82.03; [127-09-3]
Melting Point: 324°C; **Flash Point:** 250°C/482°F
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Sodium Acetate Trihydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP334-500**	65.70	6/306.00
1kg	Poly Bottle	**BP334-1**	84.00	6/392.50

The trihydrate form of Sodium Acetate can be used for many of the same applications as the anhydrous form.
Colorless-to-white Crystals; $C_2H_3O_2Na·3H_2O$; $CH_3COONa·3H_2O$
F.W. 136.08; [6131-90-4]; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Azide

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass/ Poison Pack	**BP922I-500**	134.50	----

Sodium Azide is used as a preservative in biological solutions.
White Granular Powder; NaN_3; **F.W.** 65.01; [26628-22-8]
DOT Class 6.1: Poison; **UN** 1687; **Recommended Storage:** RT

ChemAlert® Storage Code BLUE

Sodium Bicarbonate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP328-500**	46.60	6/225.00
1kg	Poly Bottle	**BP328-1**	70.80	6/330.00

This sodium salt is used in buffers for molecular biology and cell culture applications.; Fine White Powder
Sodium Hydrogen Carbonate, $NaHCO_3$; **F.W.** 84.01; [144-55-8]
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Sodium Cacodylate Trihydrate

Quantity	Packaging	Cat.No.	Each	Case of
50g	Poly Bottle/Poison Pack	**BP325-50**	164.90	----

Sodium Cacodylate is a component of the DMS reaction buffer in Maxam-Gilbert sequencing and is also used as a buffer in terminal transferase reactions.; White Crystals or Crystalline Powder; ≥97 %; Sodium Dimethylarsinate, $C_2H_6AsO_2Na{\cdot}3H_2O$ $(CH_3)_2AsO_2Na{\cdot}3H_2O$; **F.W.** 214.03; [6131-99-3]
Melting Point: 77° to 80°C/170.6° to 176°F; **DOT Class 6.1**: Poison
UN 1688; **Recommended Storage:** RT

ChemAlert® Storage Code BLUE

Sodium Carbonate

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP357-1**	91.90	6/444.00

This sodium salt is used in buffers for molecular biology and cell culture applications.; White Crystalline Powder ≥99.5 %; Disodium Carbonate, Soda Ash, CNa_2O_3; **F.W.** 105.99 [497-19-8]; **Melting Point:** 851°C; **Boiling Point:** 1600°C
Density: 2.53g/mL; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Chloride

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP358-1**	52.10	6/243.50
2.5kg	Poly Bottle	**BP358-212**	76.30	4/237.50
10kg	Poly Pail	**BP358-10**	119.60	----

Sodium Chloride is a main component of many electrophoresis and molecular biology buffers and media.
White Crystals or Crystalline Powder; ≥99.5 %; Salt, NaCl
F.W. 58.44; [7647-14-5]; **Melting Point:** 801°C; **Boiling Point:** 1461°C
Density: 2.17g/mL; For electrophoresis and molecular biology buffers and media. Low metal ion content: ≤0.0005%. **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Citrate Dihydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP327-500**	47.90	6/232.00
1kg	Poly Bottle	**BP327-1**	57.20	6/267.00

Sodium Citrate is used primarily in the preparation of SSC buffer used in Southern transfers.; Small, Colorless Granules 99.0 to 101.0 %; $C_6H_5Na_3O_7{\cdot}2H_2O$; **F.W.** 294.09; [6132-04-3, 68-04-2]
Melting Point: 300°C; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Dodecyl Sulfate — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP166-100**	65.00	6/301.00
500g	Poly Bottle	**BP166-500**	241.50	6/1076.00
5kg	Poly Pail	**BP166-5**	1436.00	----

Sodium Dodecyl Sulfate (SDS) is the most commonly used detergent in protein purification and electrophoresis. It is used as a protein denaturing agent during both extraction procedures and SDS polyacrylamide gel electrophoresis.; White Powder DNase- and RNase-Free; (as Fatty Alcohol Sulfate) >=99% Sodium Lauryl Sulfate, SDS, $C_{12}H_{25}NaO_4S$; $CH_3(CH_2)_{10}CH_2OSO_3Na$
F.W. 288.38; [151-21-3, 7647-14-5, 7757-82-6]; **Melting Point:** 206°C
Flash Point: 100°C/212°F; For protein extraction procedures and SDS polyacrylamide gels. **Recommended Storage:** RT

ChemAlert® Storage Code RED

Sodium Dodecyl Sulfate — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
200mL	Poly Bottle	**BP2436-200**	72.30	6/353.50
1L	Nalgene Poly Bottle	**BP2436-1**	165.70	6/789.00

Sodium Dodecyl Sulfate (SDS) is the most commonly used detergent in protein purification and electrophoresis. It is used as a protein denaturing agent during both extraction procedures and SDS polyacrylamide gel electrophoresis.; ≥99 %; $C_{12}H_{25}O_4SNa$ $CH_3(CH_2)_{10}CH_2OSO_3Na$; **F.W.** 288.38; [151-21-3, 7732-18-5]
Melting Point: >0°C; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Dodecyl Sulfate — Electrophoresis/Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
200mL	Poly Bottle	**BP1311-200**	75.30	6/329.50
1L	Nalgene Poly Bottle	**BP1311-1**	255.50	6/1286.00

Sodium Dodecyl Sulfate (SDS) is the most commonly used detergent in protein purification and electrophoresis. It is used as a protein denaturing agent during both extraction procedures and SDS polyacrylamide gel electrophoresis.; Colorless Liquid DNase-, RNase- and Protease-Free; (as Fatty Alcohol Sulfate): ≥99% Sodium lauryl sulfate, SDS, $C_{12}H_{25}O_4SNa$; $CH_3(CH_2)_{10}CH_2OSO_3Na$
F.W. 288.38; [7732-18-5, 151-21-3]; **Melting Point:** >0°C
Used as a detergent in protein purification and electrophoresis. 0.2mm filtered. **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Hydroxide

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP359-500**	51.40	6/249.50
2.5kg	Poly Bottle	**BP359-212**	128.40	4/405.00

Sodium Hydroxide is used to adjust the pH of buffers for molecular biology and cell culture applications.
White Pellets; NaOH; **F.W.** 40.00; [1310-73-2]; **DOT Class 8**: Corrosive
UN 1823; **Recommended Storage:** RT

ChemAlert® Storage Code WHITE

Sodium Persulfate

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP2637-1**	72.90	6/221.50

Sodium Persulfate is used as a promoter for polymerization reactions.; White Crystalline Powder; ≥98.0 %
Sodium Peroxydisulfate, $Na_2O_8S_2$; **F.W.** 238.09; [7775-27-1]
Melting Point: 100°C; **Density:** 2.6g/mL; **DOT Class 5.1**: Oxidizer
UN 1505; **Recommended Storage:** RT

ChemAlert® Storage Code YELLOW

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Sodium Phosphate Dibasic Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP332-500**	89.40	6/417.00
1kg	Poly Bottle	**BP332-1**	190.40	6/923.50

This buffer component is commonly used in tissue culture and molecular biology applications.; White Granules or Powder ≥99.0 %; Disodium Hydrogen Phosphate, Na_2HPO_4; **F.W.** 141.96 [7558-79-4]; **Melting Point:** 47.78°C; **Density:** 1.67g/mL
For tissue culture and molecular biology applications.
Low metal ion content: ≤0.001%. **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Phosphate Dibasic Heptahydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP331-500**	76.50	6/357.00
1kg	Poly Bottle	**BP331-1**	124.40	6/604.00

This buffer component is commonly used in tissue culture and molecular biology applications.; Colorless-to-white Crystals 98.0 to 102.0 %; Disodium Hydrogen Phosphate, $HNa_2O_4P{\cdot}7H_2O$; **F.W.** 268.07; [7782-85-6]; **Melting Point:** 48°C
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Sodium Phosphate Monobasic Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP329-500**	55.50	6/270.50
1kg	Poly Bottle	**BP329-1**	85.40	6/399.00

Sodium Phosphate is commonly used in tissue culture and molecular biology applications.; Colorless-to-white Crystals ≥99 %; Sodium Dihydrogen Phosphate, NaH_2PO_4; **F.W.** 119.98 [7558-80-7]; **Melting Point:** 100°C; **Boiling Point:** 203.9°C
Density: 2.04g/mL; For tissue culture and molecular biology applications.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Sodium Phosphate Monobasic Monohydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass	**BP330-500**	116.50	6/566.00
1kg	Amber Glass	**BP330-1**	207.50	6/1042.00

Sodium Phosphate is commonly used in tissue culture and molecular biology applications.; Colorless-to-white Crystals Sodium Dihydrogen Phosphate, $NaH_2PO_4{\cdot}H_2O$; **F.W.** 137.99 [10049-21-5]; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Pyruvate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP356-100**	131.50	6/639.00

This sodium salt is used in buffers for molecular biology and cell culture applications.; White Powder; ≥99 % Pyruvic Acid, Sodium Salt, $C_3H_3NaO_3$; CH_3COCO_2Na; **F.W.** 110.04 [113-24-6]; **Melting Point:** 300°C; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Sulfate Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP354-500**	53.90	6/265.00

This sodium salt is used in buffers for molecular biology and cell culture applications.; White Granules; ≥99.0 % Disodium Sulfate, Sulfuric Acid, Disodium Salt, Na_2O_4S
F.W. 142.04; [7757-82-6]; **Melting Point:** 884° to 888°C/1623.2° to 1630.4°F
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Sodium Sulfite Anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
500g	Amber Glass	**BP355-500**	55.70	6/259.50

This sodium salt is used in buffers for molecular biology and cell culture applications.; White Crystals or Crystalline Powder; Disodium Sulfite, Sulfurous Acid, Disodium Salt, Na_2SO_3
F.W. 126.04; [7757-83-7]; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sodium Tartrate Dihydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**BP352-500**	122.50	6/594.50

This sodium salt is used in buffers for molecular biology and cell culture applications.; Colorless Crystals Disodium Tartrate, Dihydrate, $C_4H_4Na_2O_6{\cdot}2H_2O$; **F.W.** 230.08 [6106-24-7, 868-18-8]; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Sorbitol

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP439-500**	48.80	6/238.00

Sorbitol is used in the preparation of isoelectric focusing gels. 91.0 to 100.5 %; $C_6H_{14}O_6$; **F.W.** 182.17; [50-70-4]
Melting Point: 75°C; **Boiling Point:** 295°C; **Density:** 1.489g/mL
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Spectinomycin Dihydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP2957-1**	54.64	----

Dry, White or almost white powder; $C_{14}H_{24}N_2O_7{\cdot}2HCl{\cdot}5H_2O$; **F.W.** 495.3 [22189-32-8]; **Melting Point:** 210°C; Inhibits protein synthesis.

Staurosporine

Quantity	Packaging	Cat.No.	Each	Case of
100 ug	Poly Micro Tube	**BP2541-100**	174.70	5/706.50
500 ug	Poly Micro Tube	**BP2541-500**	648.12	5/2726.80

Staurosporine is a potent protein kinase inhibitor useful for studies on protein phosphorylation in the regulation of cellular functions.; > 98.0 %; $C_{28}H_{26}N_4O_3$; **F.W.** 466.5; [62996-74-1]
Recommended Storage: 4°C, protect from light.

ChemAlert® Storage Code GRAY

Streptomycin Sulfate

Quantity	Packaging	Cat.No.	Each	Case of
50g	Poly Bottle	**BP910-50**	69.80	6/335.50

Streptomycin Sulfate inhibits protein synthesis.
It prevents microbial contamination in tissue culture applications and confers antibiotic resistance/sensitivity in molecular biology procedures.; White to Light Yellow Powder; $C_{42}H_{78}N_{14}O_{24}{\cdot}3H_2SO_4$ $(C_{21}H_{39}N_7O_{12})_2{\cdot}3H_2SO_4$; **F.W.** 1457.58; [3810-74-0]; Not for drug use.
Recommended Storage: 4°C

ChemAlert® Storage Code GRAY

D-Sucrose — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP220-1**	74.90	6/349.50
2.5kg	Glass Bottle	**BP220-212**	113.40	4/367.00
10kg	Poly Pail	**BP220-10**	368.50	----

ChemAlert* Storage Code GRAY

D-Sucrose is suitable for the preparation of density gradients used in purification of proteins and nucleic acids by ultracentrifugation.; White Powder; DNase-, RNase- and Protease-Free; ≥99.9 %; $C_{12}H_{22}O_{11}$; **F.W.** 342.29; [57-50-1]
Melting Point: 190° to 192°C/374° to 377.6°F; For the preparation of density gradients for DNA ultracentrifugation.
Recommended Storage: RT

Sucrose Gel-Loading Dye for DNA Gels — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Poly Bottle	**BP655-5**	107.87	----

ChemAlert* Storage Code GRAY

This dye includes sucrose instead of glycerol.
Add the dye to DNA samples prior to electrophoresis on agarose gels.; [7732-18-5, 57-50-1]; Components: Sucrose (40%), Proprietary Component (<3%), and Water.
Recommended Storage: RT

TBE Buffer Mix — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
86.1g	Poly Bottle	**BP1396-86**	91.23	----

ChemAlert* Storage Code GRAY

Electrophoresis buffer.; Dry Powder Mix of Tris/Boric Acid/EDTA Tris-Boric Acid-EDTA Buffer Mix, [77-86-1 (Tris), 6381-92-6 (EDTA), 10043-35-3 (Boric Acid)]; Makes 1 liter of 5X buffer. Final concentration of components in 1X buffer: 0.089M Tris, 0.089M Boric Acid, 0.002M EDTA.

TEMED — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
26mL	Amber Glass	**BP150-20**	64.20	6/300.50
130mL	Amber Glass	**BP150-100**	182.90	6/910.00

ChemAlert* Storage Code RED

TEMED is a commonly used catalyst for the polymerization of acrylamide/bis-acrylamide.; Colorless Liquid
DNase-, RNase- and Protease-Free; ≥97 % (by titration)
N,N,N',N'-Tetramethylethylenediamine, $C_6H_{16}N_2$; $(CH_3)_2NCH_2CH_2N(CH_3)_2$
F.W. 116.21; [110-18-9]; **Melting Point:** –55.00°C; **Flash Point:** 17°C/68°F
Boiling Point: 121.11°C; **Density:** 4.00; **DOT Class 3**: Flammable Liquid
UN 2372; For polymerization of acrylamide/bis-acrylamide.
Recommended Storage: RT

TES

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP309-100**	157.20	6/763.50

ChemAlert* Storage Code GRAY

This biological buffer has a usable pH range of 6.8 to 8.2.
White Crystals; ≥98 %; N-Tris(hydroxymethyl)methyl-2-aminoethanesulfonic Acid, $C_6H_{15}NO_6S$; **F.W.** 229.25; [7365-44-8]
Melting Point: 223° to 225°C/433.4° to 437°F; **Density:** 7.9
Recommended Storage: RT

Tetracycline Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP912-100**	125.90	----

ChemAlert* Storage Code GRAY

Tetracycline blocks protein synthesis and is used to select tetracycline-resistant recombinant plasmids.; Yellow Powder; $C_{22}H_{24}N_2O_8{\cdot}HCl$; **F.W.** 480.9; [64-75-5]; **Melting Point:** 223°C
Shelf Life: 3 years.
Not for drug use. **Recommended Storage:** RT

Thiamine Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP892-100**	75.00	----

ChemAlert* Storage Code GRAY

This vitamin is suitable for use in systems requiring additives.
White Powder; ≥98 %; Vitamin B_1 Hydrochloride, $C_{12}H_{17}NH_4OSCl{\cdot}HCl$; **F.W.** 300.66; [67-03-8]; **Melting Point:** 260°C; **Density:** 1.4g/mL
Not for human use. **Recommended Storage:** RT

D-(+)-Trehalose, Dihydrate

Quantity	Packaging	Cat.No.	Each	Case of
10g	Poly Bottle	**BP2687-10**	51.10	6/315.50
25g	Poly Bottle	**BP2687-25**	99.85	6/108.87
100g	Poly Bottle	**BP2687-100**	268.00	6/1352.00
1kg	Poly Bottle	**BP2687-1**	1425.00	6/7260.00

ChemAlert* Storage Code GRAY

D-(+)-Trehalose is used in several biochemical techniques.
White Powder; ≥98 %; $C_{12}H_{22}O_{11}H_4O_2$; **F.W.** 378.33; [6138-23-4]
Melting Point: 97° to 99°C/206.6° to 210.2°F
Recommended Storage: RT

L-Threonine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP394-100**	198.30	6/990.00

ChemAlert* Storage Code GRAY

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder 99.0 to 101.0 %; $C_4H_9NO_3$; **F.W.** 119.12; [72-19-5]
Melting Point: 255°C; This material is certified for Arsenic not more than 1ppm.
Recommended Storage: RT

Trichloroacetic Acid

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**BP555-250**	92.20	6/431.00
500g	Glass Bottle	**BP555-500**	146.70	6/658.50
1kg	Glass Bottle	**BP555-1**	165.10	4/503.00

ChemAlert* Storage Code WHITE

TCA is used to precipitate proteins and nucleic acids from solution.; Flakes or Crystals; ≥99.0 %; Trichlorethanoic Acid, TCA, $C_2HCl_3O_2$; CCl_3COOH; **F.W.** 163.39; [76-03-9]
Melting Point: 52° to 58°C/125.6° to 136.4°F; **Boiling Point:** 196°C
Density: 5.6 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 1839
Recommended Storage: RT

Tricine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**BP315-100**	84.60	6/410.00

ChemAlert* Storage Code GRAY

This biological buffer has a usable pH range of 7.4 to 8.8.
White Crystals; ≥98 %; N-[Tris-(hydroxymethyl)methyl]glycine, $C_6H_{13}NO_5$; $(HOCH_2)_3CNHCH_2CO_2H$; **F.W.** 179.09; [5704-04-1]
Melting Point: 182° to 184°C/359.6° to 363.2°F; **Recommended Storage:** RT

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Triethylamine — Peptide Synthesis

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**BP616-500**	66.10	----

Triethylamine is used as a solvent in automated synthesis protocols.
≥99 %; $C_6H_{15}N$; $(C_2H_5)_3N$; **F.W.** 101.19; [121-44-8]; **Melting Point:** −115°C
Flash Point: −11°C/+12.2°F; **Boiling Point:** 89° to 90°C
Density: 3.5 (Air = 1.0); **Recommended Storage:** RT

Trifluoroacetic Acid — Peptide Synthesis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**BP618-500**	310.78	----

Trifluoroacetic acid is used in peptide sythesis and sequencing protocols.; Colorless Liquid; ≥99.5 %; TFA, Perfluoroacetic Acid, Trifluoroethanoic Acid, $C_2HF_3O_2$; CF_3COOH; **F.W.** 114.02; [76-05-1]
Melting Point: −15°C; **Boiling Point:** 72°C; **Density:** 3.9
For peptide synthesis and sequencing protocols.

Tris Base — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP152-500**	89.60	6/417.50
1kg	Poly Bottle	**BP152-1**	154.60	6/727.50
5kg	Poly Pail	**BP152-5**	561.00	----
10kg	Poly Pail	**BP152-10**	948.50	----
25kg	Fiber Drum	**BP152-25**	2330.00	----

ChemAlert® Storage Code GRAY

Tris Base is a buffer component in molecular biology, tissue culture, and electrophoresis procedures.; White Crystals or Crystalline Powder; DNase-, RNase- and Protease-Free ≥99.8 %; Trimethylol Aminomethane, Tris(hydroxymethyl)aminomethane, $(CH_2OH)_3CNH_2$; $H_2NC(CH_2OH)_3$; **F.W.** 121.14; [77-86-1]
Melting Point: 171.2° to 172.3°C; **Boiling Point:** 219° to 220°C at 10 mmHg
For molecular biology, tissue culture, and electrophoresis procedures.
Recommended Storage: RT

Tris Base

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Poly Bottle	**BP154-1**	251.00	4/837.50

ChemAlert® Storage Code GRAY

This ultrapure, triple-crystallized buffer component is alcohol-free, so it is compatible with sensitive molecular biology, tissue culture, and electrophoresis methods.; White Crystals or Crystalline Powder; DNase-, RNase- and Protease-Free; ≥99.9 % Trimethylol Aminomethane, Tris(hydroxymethyl)aminomethane, $C_4H_{11}NO_3$ $H_2NC(CH_2OH)_3$; **F.W.** 121.14; [77-86-1]; **Melting Point:** 168.5°C
Boiling Point: 219220°C at 10 mmHg; For sensitive molecular biology, tissue culture, and electrophoresis methods.
Recommended Storage: RT

Tris Buffered Saline — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP2471-100**	72.90	6/340.50
500mL	Poly Bottle	**BP2471-500**	83.40	6/389.50
1L	Nalgene Poly Bottle	**BP2471-1**	103.70	6/472.50

ChemAlert® Storage Code GRAY

Washing buffer for alkaline phosphatase or peroxidase conjugates in Western blotting; Colorless Liquid DNase-, RNase- and Protease-Free
TBS, [7447-40-7, 7647-01-0, 7647-14-5, 77-86-1, 7732-18-5]; For biochemical and molecular biology applications.
The 10X TBS solution is diluted to produce a 1X working solution: 0.137M Sodium Chloride, 0.0027M Potassium Chloride, and 0.025M Tris/Tris-HCl.
0.2mm filtered, Autoclaved **Recommended Storage:** RT

Tris Hydrochloride — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP153-500**	158.60	6/769.50
1kg	Poly Bottle	**BP153-1**	223.50	4/746.00

ChemAlert® Storage Code GRAY

Tris Hydrochloride is a buffering medium for electrophoresis, molecular biology, and cell culture applications. It may be combined with Tris Base to simplify Tris buffer preparation.; Small White Flakes; DNase-, RNase- and Protease-Free; ≥99 %; Tris(hydroxymethyl)aminomethane Hydrochloride, $C_4H_{11}NO_3{\cdot}HCl$ $H_2NC(CH_2OH)_3{\cdot}HCl$; **F.W.** 157.6; [1185-53-1]; **Melting Point:** 150° to 153°C/302° to 307.4°F; For electrophoresis, molecular biology, and cell culture applications. **Recommended Storage:** RT

Tris Hydrochloride — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP1757-100**	63.00	6/294.00
100mL	Poly Bottle	**BP1758-100**	63.70	6/297.50
500mL	Poly Bottle	**BP1756-500**	84.80	6/396.00
500mL	Poly Bottle	**BP1757-500**	82.50	6/401.00
500mL	Poly Bottle	**BP1758-500**	80.20	6/390.00

ChemAlert® Storage Code GRAY

Tris is a buffer component in molecular biology, tissue culture, and electrophoresis procedures. These 1M solutions of Tris Hydrochloride at pH 7.0, pH 7.5, and pH 8.0 provide convenient and highly purified solutions.; High Purity, Low Metal; DNase-, RNase- and Protease-Free; Tris-HCl, [77-86-1, 1185-53-1, 7732-18-5]
For molecular biology, tissue culture, and electrophoresis procedures.
BP1756 solutions are pH 7.0 BP1757 solutions are pH 7.5 BP1758 solutions are pH 8.0. **Recommended Storage:** RT

Tris-Acetate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**BP1335-500**	35.74	6/158.40
1L	Nalgene Poly Bottle	**BP1335-1**	71.30	6/344.50
4L	Poly CUBE	**BP1335-4**	144.70	----
20L	Poly CUBE	**BP1335-20**	458.00	----

ChemAlert® Storage Code GRAY

Tris–Acetate–EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.; Colorless Liquid; DNase-, RNase- and Protease-Free; TAE, [64-19-7, 7732-18-5, 60-00-4, 77-86-1]
For nucleic acid electrophoresis.
Dilution of the concentrated TAE buffer produces a 1× TAE buffer with 40 mM Tris-acetate and 1 mM EDTA, pH 8.3.
0.2mm filtered **Recommended Storage:** RT

Tris-Acetate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
20L	Poly CUBE	**BP2434-20**	347.50	----

ChemAlert® Storage Code GRAY

Tris–Acetate–EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
[77-86-1, 6850-28-8, 139-33-3, 10378-23-1, 7732-18-5]; 0.04M Tris–Acetate and 0.001M EDTA. **Recommended Storage:** RT

Tris-Acetate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1330-1**	177.30	6/886.00

ChemAlert® Storage Code GRAY

Tris–Acetate–EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.
[60-00-4, 6850-28-8, 77-86-1, 7732-18-5]; 1M Tris–Acetate and 0.025M EDTA. **Recommended Storage:** RT

Tris-Acetate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**BP1332-500**	89.00	6/434.00
1L	Nalgene Poly Bottle	**BP1332-1**	146.80	6/744.00
4L	Poly CUBE	**BP1332-4**	276.00	----
20L	Poly CUBE	**BP1332-20**	860.15	----

ChemAlert* Storage Code GRAY

Tris–Acetate–EDTA (TAE) is commonly used as a buffer for nucleic acid electrophoresis.; Colorless Liquid; DNase-, RNase- and Protease-Free; TAE, [7732-18-5, 77-86-1, 60-00-4, 6850-28-8]
For nucleic acid electrophoresis.
Dilution of the concentrated TAE buffer produces a 1× TAE buffer with 40 mM Tris-acetate and 1 mM EDTA, pH 8.3.
0.2mm filtered. **Recommended Storage:** RT

Tris-Borate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1 Pack	Foil Pack	**BP1334-1**	140.00	----

ChemAlert* Storage Code GRAY

Tris–Borate–EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis.; [77-86-1, 10043-35-3, 60-00-4]
Each pack contains preweighed powder to make 1L of a 10X solution (0.89M Tris Base, 0.89M Boric Acid, and 0.02M EDTA).
Recommended Storage: RT

Tris-Borate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1333-1**	72.30	6/350.00
4L	Poly CUBE	**BP1333-4**	137.10	----
20L	Poly CUBE	**BP1333-20**	430.50	----

ChemAlert* Storage Code GRAY

Tris–Borate–EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis.; Colorless Liquid; DNase-, RNase- and Protease-Free; TBE, [10043-35-3, 60-00-4, 77-86-1, 7732-18-5]
For nucleic acid electrophoresis.
Dilution of the TBE stock concentrate to a 1× TBE running buffer results in a buffer containing 89 mM Tris-borate and 2 mM EDTA, pH 8.3.
0.2mm filtered; **Recommended Storage:** RT

Tris-Borate-EDTA — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP2430-1**	64.60	6/316.00
4L	Poly CUBE	**BP2430-4**	79.10	----
20L	Poly CUBE	**BP2430-20**	329.82	----

ChemAlert* Storage Code GRAY

Tris–Borate–EDTA (TBE) is commonly used as a buffer for nucleic acid electrophoresis.; [77-86-1, 6381-92-6, 10043-35-3, 7732-18-5]; **Melting Point:** >0°C; 0.089M Tris Base, 0.089M Boric Acid, and 0.002M EDTA.
Recommended Storage: RT

Tris-EDTA — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1338-1**	157.30	6/753.00

ChemAlert* Storage Code GRAY

Tris–EDTA (TE) is routinely used for suspending nucleic acid samples.
[77-86-1, 60-00-4, 7732-18-5]; 1.0M Tris Base and 0.1M EDTA.
Recommended Storage: RT

Tris-EDTA — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP2476-100**	44.91	6/213.03
1L	Nalgene Poly Bottle	**BP2476-1**	71.80	6/330.50

ChemAlert* Storage Code GRAY

Tris–EDTA (TE) is routinely used for suspending nucleic acid samples.; TE, [77-86-1, 60-00-4, 7647-01-0, 7732-18-5]
10mM Tris and 1mM EDTA.
Recommended Storage: RT

Tris-EDTA — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP2473-100**	51.60	6/251.50
500mL	Poly Bottle	**BP2473-500**	64.80	6/315.00
1L	Nalgene Poly Bottle	**BP2473-1**	72.80	6/324.50

ChemAlert* Storage Code GRAY

Tris–EDTA (TE) is routinely used for suspending nucleic acid samples.; TE, [77-86-1, 6381-92-6, 7647-01-0, 7732-18-5]
10mM Tris and 1mM EDTA.
Recommended Storage: RT

Tris-Glycine — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1 Pack	Foil Pack	**BP1307-1**	91.23	----

ChemAlert* Storage Code GRAY

Tris–Glycine is commonly used as a buffer in native polyacrylamide gel electrophoresis.; [77-86-1, 56-40-6]
Each pack contains preweighed powder to make 1L of a 10X solution (0.25M Tris Base and 1.92M Glycine).
Recommended Storage: RT

Tris-Glycine — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1306-1**	105.70	6/534.50
4L	Poly CUBE	**BP1306-4**	168.50	----

ChemAlert* Storage Code GRAY

Tris-Glycine is commonly used as a buffer in native polyacrylamide gel electrophoresis.; Colorless Liquid; DNase-, RNase- and Protease-Free; TG, [7732-18-5, 77-86-1, 56-40-6]
Used as a buffer in native polyacrylamide gel electrophoresis.
The 10× Tris-glycine buffer is diluted to 1× with methanol and water to make a solution containing 25 mM Tris, 192 mM glycine, and 20% methanol.
0.2mm filtered
Recommended Storage: RT

Tris-Glycine-SDS — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1 Pack	Foil Pack	**BP1342-1**	89.62	----

ChemAlert* Storage Code GRAY

Tris-Glycine-SDS is commonly used as a buffer in SDS-PAGE.
[77-86-1, 56-40-6, 151-21-3]; Tris-Glycine-SDS is commonly used as a buffer in SDS-PAGE.
Each pack contains preweighed powder to make 1L of a 10X solution (0.25M Tris Base, 1.92M Glycine, and 1.0% w/v SDS).
Recommended Storage: RT

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Tris-Glycine-SDS — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP1341-1**	104.50	6/529.00
4L	Poly CUBE	**BP1341-4**	178.00	----

Tris-Glycine-SDS is commonly used as a buffer in SDS-PAGE of proteins.; Colorless Liquid; DNase-, RNase- and Protease-Free TG-SDS, [77-86-1, 7732-18-5, 56-40-6, 151-21-3]; For SDS-PAGE of proteins .
Dilution of the 10× TGS buffer produces a 1X running buffer containing 25 mM Tris, 192 mM glycine and 0.1% SDS, pH approx. 8.4.
0.2mm filtered
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Triton* X-100 — Electrophoresis-Grade

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**BP151-100**	39.00	6/185.30
500mL	Glass Bottle	**BP151-500**	56.80	6/266.00

This nonionic detergent is used to solubilize membranes, permeabilize unfixed eukaryotic membranes, and is a component of lysis buffers for DNA extraction.; Clear Liquid; Polyethylene Glycol p-tert-Octylphenyl Ether, 4-(C_8H_{17}) C_6H_4 $(OCH_2CH_2)_n$ OH (n~10)
F.W. 624; [9002-93-1]; **Melting Point:** 6°C; **Flash Point:** 274°C/525.2°F
Boiling Point: 270°C; **Density:** 7.11 (Air = 1.0)
For solubilization and permeabilization of membranes.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Tween* 20

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**BP337-100**	34.10	6/157.40
500mL	Glass Bottle	**BP337-500**	46.75	6/216.00

This nonionic detergent is used in the isolation of water-soluble membrane proteins.; Viscous, Colorless Liquid; Polysorbate 20, Polyoxyethylene-20-sorbitan Monolaurate, Polyoxyethylenesorbitan monolaurate, $C_{58}H_{114}O_{26}$
F.W. 1227.54; [9005-64-5]; **Flash Point:** 150°C/302°F; **Density:** 1.11g/mL
Non-ionic detergent .
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Tween* 80

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**BP338-500**	54.20	6/253.00

This nonionic detergent is used in the isolation of water-soluble membrane proteins.; Viscous, Colorless Liquid; Polysorbate 80, Polyoxyethylene-20-sorbitan Monooleate, [9005-65-6]
Flash Point: 110°C; **Density:** >1.0; Non-ionic detergent for selective protein extraction.
Recommended Storage: RT

ChemAlert® Storage Code GRAY

L-Tryptophan

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP395-100**	183.36	6/925.31

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder 98.5 to 100.5 %; $C_{11}H_{12}N_2O_2$; **F.W.** 204.23; [73-22-3]
Melting Point: 280° to 285°C
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Urea — Molecular Biology-Grade

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**BP169-500**	88.00	6/411.00
2.5kg	Poly Bottle	**BP169-212**	234.50	4/784.00
10kg	Poly Pail	**BP169-10**	841.00	----

Urea is used as a denaturing agent for DNA and proteins.
Colorless-to-white Crystals or Crystalline Powder; DNase-, RNase- and Protease-Free; ≥99 %; CH_4N_2O; NH_2CONH_2
F.W. 60.06; [57-13-6]; **Melting Point:** 131° to 135°C; **Density:** 1.335g/mL
Recommended Storage: RT

ChemAlert® Storage Code GRAY

Vancomycin Hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Amber Glass	**BP2958-1**	288.50	----

Dry, White to light orange powder; $C_{66}H_{75}Cl_2N_9O_{24}$·HCl
F.W. 1485.73; [1404-93-9]; Inhibits formation of peptidoglycan polymers of bacterial cell wall.

L-Valine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**BP397-100**	118.90	6/605.50

This amino acid is suitable for use in tissue culture systems requiring additives.; White Crystals or Crystalline Powder 98.5 to 100.5 %; $C_5H_{11}NO_2$; **F.W.** 117.08; [72-18-4]
Melting Point: 315°C; **Density:** 1.23g/mL; **Recommended Storage:** RT

ChemAlert® Storage Code GRAY

Water — Biotech Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly CUBE	**BP2485-4**	74.80	----
20L	Poly CUBE	**BP2485-20**	212.00	----

Biotech-grade water can be used for several biological test procedures.; Colorless Liquid; H_2O; **F.W.** 18.02; [7732-18-5]
Melting Point: 0°C; **Boiling Point:** 100°C; **Density:** 1g/mL
For several biological test procedures. 0.2mm filtered.
Low metal ion content: ≤0.01ppm

ChemAlert® Storage Code GRAY

Water — DNA Grade

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP2470-1**	53.50	6/339.50

DNA-grade Water is DNase- and Protease-free and is suitable for all DNA work.; **F.W.** 18.02; [7732-18-5]

ChemAlert® Storage Code GRAY

Water — Molecular Biology Grade

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**BP2819-100**	41.75	----
1L	Nalgene Poly Bottle	**BP2819-1**	49.95	6/239.00
4L	Poly CUBE	**BP2819-4**	117.10	----
10L	Poly CUBE	**BP2819-10**	233.90	----
20L	Poly CUBE	**BP2819-20**	340.80	----

ChemAlert® Storage Code GRAY

Ultrapure molecular biology grade water is ideal for many fundamental procedures such as PCR, electrophoresis, DNA sequencing, and buffers for enzymatic analyses.; Colorless Liquid DNase-, RNase- and Protease-Free; H_2O; **F.W.** 18.02; [7732-18-5]
Melting Point: 0°C; **Boiling Point:** 100°C; **Density:** 1.000g/mL; For many fundamental molecular biology procedures.

Water

Quantity	Packaging	Cat.No.	Each	Case of
50mL	Nalgene Poly Bottle	**BP2484-50**	38.45	6/172.60
100mL	Poly Bottle	**BP2484-100**	55.40	6/248.50

ChemAlert® Storage Code GRAY

Diethylpyrocarbonate (DEPC)-treated Water is guaranteed nuclease-free (tested for both DNase and RNase) and is suitable for all RNA work.; **F.W.** 18.02; [7732-18-5]

Water — Molecular Biology

Quantity	Packaging	Cat.No.	Each	Case of
1L	Nalgene Poly Bottle	**BP561-1**	60.90	6/284.50

ChemAlert® Storage Code GRAY

Diethylpyrocarbonate (DEPC)-treated Water is guaranteed nuclease-free (tested for both DNase and RNase) and is suitable for all RNA work.; **F.W.** 18.02; [7732-18-5]; DEPC-treated and autoclaved.

Xylene Cyanole FF — Electrophoresis

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**BP565-10**	105.70	6/536.00

ChemAlert® Storage Code GRAY

This dye is used in electrophoretic applications to mark the migration position of nucleic acid fragments.
Bluish-green Powder; $C_{25}H_{27}N_2NaO_6S_2$; **F.W.** 538.61; [2650-17-1]
C.I. 42135; **Melting Point:** 295°C; **Recommended Storage:** RT

D-(+)-Xylose

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**BP708-250**	221.00	6/1106.00

ChemAlert® Storage Code GRAY

D-(+)-Xylose is often used as a cell culture additive.
White to Off-white Powder; ≥98 %; $C_5H_{10}O_5$
F.W. 150.13; [58-86-6]; **Melting Point:** 148° to 153°C
Recommended Storage: RT

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Before You Buy **Chemicals (Water)**

RICCA CHEMICAL COMPANY

Ricca Chemical Company manufacturers many grades of water to suit your applications. Whether you are doing environmental prep, dilutions, cleaning, or working in a pharmaceutical laboratory, we have the products that meet your specifications.

Using prepackaged water saves on capital, installation, and maintenance costs, compared to purchasing your own systems. The initial and ongoing costs of validation and testing are also saved when using prepackaged water.

Water stocks are purified using processes† that are Validated, Monitored, Redundant, and Continuous. These processes meet, as a minimum, most published specifications, as can be seen in the following chart.

Features To Look For

- Packaging sizes range from 120mL to 330 gal. totes in poly containers, cubitainers, or amber glass. Depending on the package and filling conditions, the ultimate product specifications will differ. The minimum specifications and actual results for critical assay values are detailed on the Certificate of Analysis for the below mentioned products.

CERTIFICATION CRITERIA	91505 WATER, ACS, REAGENT GRADE, ASTM TYPE I, ASTM TYPE II - *PACKAGED IN PLASTIC	91511 WATER, ACS, REAGENT GRADE, ASTM TYPE I, ASTM TYPE II - *PACKAGED IN GLASS	915225, 91525, 91521, WATER, ACS, REAGENT GRADE, ASTM TYPE II -	91531 WATER, HPLC GRADE, REAGENT GRADE FOR UV SPEC AND LC	91801 WATER, DISTILLED, REAGENT GRADE	919025, 91905, 91901 WATER, USP/EP PURIFIED	9191000-55E WATER, USP PURIFIED, NON-STERILE
ACS Reagent Grade	●	●	●	●			
ASTM D1193 Type I	●	●					
ASTM D1193 Type II	●	●	●				
ASTM D1193 Type III	●	●					
ASTM D1193 Type IV	●	●					
HPLC Grade				●			
Suitable for UV Spec and LC				●			
USP Purified						●	●
EP Purified						●	
JP Purified							
Nonsterile	●	●	●	●	●	●	●
Deionized	●	●	●	●	●	●	●
Distilled					●		
Double Distilled Quality	●	●	●	●	●	●	

†These processes include conventional water softening, pre-filtration, activated carbon organic absorption, reverse osmosis, mixed bed triple deionization, ultraviolet light irradiation, and 0.2 micron membrane filtration. Product 91801 also includes distillation, for those applications that still require distilled water.

Visit www.fishersci.com for full product listing or refer to riccachemical.com for latest specifications and packaging options.

Acetic Anhydride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**A10-100**	58.60	6/245.03
500mL	Glass Bottle	**A10-500**	125.80	6/512.50
1L	Glass Bottle	**A10-1**	219.00	6/900.50
4L	Glass Bottle	**A10-4**	522.00	4/1440.00

ChemAlert* Storage Code RED

≥97.0 %; Acetyl Oxide, Acetic Oxide, $C_4H_6O_3$; $(CH_3CO)_2O$
F.W. 102.09; [108-24-7]; **Melting Point:** –73.1°C; **Flash Point:** 53°
Boiling Point: 137°C; **Density:** 1.08g/mL; **DOT Class 8**: Corrosive
UN 1715

Acetophenone — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A22-500**	194.18	6/778.44

ChemAlert* Storage Code GRAY

Methyl Phenyl Ketone, 1-Phenylethanone, Hypnone, C_8H_8O
$CH_3COC_6H_5$; **F.W.** 120.15; [98-86-2]; **Melting Point:** 19.6°C
Flash Point: 77°C/170.6°F; **Boiling Point:** 202°C; **Density:** 4.12

Acetyl Acetone — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A25-500**	315.50	6/1288.00

ChemAlert* Storage Code RED

2,4-Pentanedione, Diacetylmethane, Acetylpropionyl, $C_5H_8O_2$
$CH_3COCH_2COCH_3$; **F.W.** 100.12; [123-54-6]; **Melting Point:** –23°C
Flash Point: 33°; **Boiling Point:** 139° to 141°C; **Density:** 0.97g/mL
DOT Class 3: Flammable Liquid; **UN** 2310

Acetyl Chloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
250mL	Amber Glass	**A27-250**	239.60	----

ChemAlert* Storage Code RED

≥98 %; Ethanoyl Chloride, C_2H_3ClO; CH_3COCl; **F.W.** 78.5; [75-36-5]
Melting Point: –112°C; **Flash Point:** 4°C/39.2°F
Boiling Point: 51°C; **Density:** 2.7 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1717

Acetylsalicylsalicylic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC26935-0010**	491.90	----

97%; 2-Hydroxybenzoic acid acetate 2-carboxyphenyl ester, Salicylacetylsalicylic acid, $C_{16}H_{12}O_6$; **F.W.** 300.26; [530-75-6]
Melting Point: 153° to 160°C

N-Acryloxysuccinimide

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC40030-0250**	656.10	----

Coupling reagent; 99%; 1-[(1-Oxo-2-propenyl)oxy]-2,5-pyrrolidinedione, $C_7H_7NO_4$; **F.W.** 169.14; [38862-24-7]; **Melting Point:** 69.0°C

Adenosine 5';-monophosphate sodium salt

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44071-0010**	38.75	----
5g	Glass Bottle	**AC44071-0050**	50.10	----
25g	Glass Bottle	**AC44071-0250**	192.10	----

99%; AMP sodium salt, $C_{10}H_{13}N_5NaO_7P$
F.W. 369.21; [149022-20-8]

Adenosine 5'-triphosphate, disodium salt hydrate

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC10280-0500**	668.80	----

98%; ATP, disodium salt hydrate, $C_{10}H_{14}N_5Na_2O_{13}P_3 \cdot xH_2O$
F.W. 551.14 [34369-07-8]; **Melting Point:** 188.0°C to 190.0°C

Adipic semialdehyde methyleester

Quantity	Packaging	Cat.No.	Each	Case of
250mg	Glass Bottle	**AC43891-2500**	171.90	----

95%; Methyleadipaldehydate, Methyle6-oxohexanoate, Methyle5-formyl-valerate, $C_7H_{12}O_3$; $OHCCH_2CH_2CH_2CH_2CO_2CH_3$
F.W. 144.17; [6654-36-0] **Boiling Point:** 59°° to 61°C (at 1 Torr)

L-Alanine tert-butyl ester hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44292-0050**	149.80	----

White to off-white solid or crystalline powder; $C_7H_{15}NO_2 \cdot HCl$
F.W. 181.66 [13404-22-3]; **Melting Point:** 206 - 216°C

Allyl alcohol — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC10286-0025**	100.10	----

99%; 2-Propen-1-ol, C_3H_6O; $H_2C{=}CHCH_2OH$; **F.W.** 58.08; [107-18-6]
Melting Point: – 129.0°C; **Flash Point:** 21°C
Boiling Point: 96.0°C to 98.0°C; **Density:** 0.8500g/mL
n: 1.4119 to 1.4139; **UN** 1098

Allylbenzene

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC10289-5000**	711.80	----

98%; 3-Phenyl-1-propene, C_9H_{10}; C6H5CH2CH=CH2
F.W. 118.18; [300-57-2] **Flash Point:** 33; **Boiling Point:** 156.0 to 157.0°C (760.0 mmHg)
Density: 0.89g/mL; **n:** 1.5100 to 1.5120

Allyl bromide

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Glass Bottle	**AC10290-0050**	504.70	----

Alkylation reagent; 99%; 3-Bromopropene, C_3H_5Br
$H_2C{=}CHCH_2Br$; **F.W.** 120.98; [106-95-6, 75-56-9]
Melting Point: – 119.0°C; **Flash Point:** –1°C;
Boiling Point: 70.0°C to 71.0°C; **Density:** 1.3900g/mL
n: 1.4680 to 1.4700; **UN** 1099

Allyl iodide

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC21854-5000**	792.60	----

98%; C_3H_5I; H2C=CHCH2I; **F.W.** 167.98; [556-56-9]
Melting Point: –99.0°C **Flash Point:** 18
Boiling Point: 102.0 to 103.0°C (760.0 mmHg)
Density: 1.83g/mL; **n:** 1.5530 to 1.5550

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Allyl methacrylate

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC21587-0025**	294.50	----

98%; $C_7H_{10}O_2$; H2C=C(CH3)CO2CH2CH=CH2
F.W. 126.15; [96-05-9]; **Melting Point:** –65.0°C
Flash Point: 37; **Boiling Point:** 144.0°C (760.0 mmHg)
Density: 0.93g/mL; **n:** 1.4350 to 1.4370

4-Aminoantipyrine — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O1123-100**	192.50	6/821.00

Crystalline; ≥98 %; Ampyrone, $C_{11}H_{13}N_3O$
$CH_3NN(C_6H_5)COC(NH_2):CCH_3$; **F.W.** 203.25; [83-07-8]
Melting Point: 107.5° to 109°C

ChemAlert® Storage Code GRAY

2-Amino-5-chlorophenylboronic acid pinacol ester

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44447-0050**	1162.20	----

97%; $C_{12}H_{17}BClNO_2$; **F.W.** 253.54; [1073371-77-3]
Melting Point: 91.0°C to 93.0°C

3-Aminomethyltetrahydrofuran

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43300-0010**	347.40	----
5g	Glass Bottle	**AC43300-0050**	953.70	----

97%; $C_5H_{11}NO$; **F.W.** 101.15; [165253-31-6]
Boiling Point: 65°C (at 15 Torr); **UN** 2924

3-Aminopropionitrile

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC35175-0250**	512.00	----

98%; $C_3H_6N_2$; **F.W.** 70.09; [151-18-8]
Boiling Point: 185°C (760mm Hg)
Density: 0.9584g/mL; **n:** 1.4365 to 1.4395; **UN** 3276

2-Aminopyridine-4-boronic acid pinacol ester

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44458-0010**	424.90	----

97%; $C_{11}H_{17}BN_2O_2$; **F.W.** 220.08; [1195995-72-2]
Melting Point: 161.0°C to 162.0°C

Ammonium Citrate Dibasic — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A663-500**	249.50	6/1086.00
2.5kg	Glass Bottle	**A663-212**	811.00	4/2360.00

Crystalline; 98.0 to 103.0 %; Citric Acid Diammonium Salt,
Diammonium Citrate, $(NH_4)_2C_6H_6O_7$
$(NH_4)_2O_2CCH_2C(OH)(CO_2H)CH_2CO_2$; **F.W.** 226.19; [3012-65-5]
Density: 1.5g/mL

ChemAlert® Storage Code GRAY

Ammonium Formate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A666-500**	147.70	6/619.00

Crystalline; 97 to 103 %
Formic Acid Ammonium Salt, NH_4COOH $HCOONH_4$
F.W. 63.06; [540-69-2]; **Melting Point:** 115° to 120°C/239° to 248°F
Boiling Point: 180°C; **Density:** 1.28g/mL

ChemAlert® Storage Code GRAY

Ammonium Oxalate Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A679-500**	257.50	6/1150.00

Crystalline; 99.0 to 101.0 %
Ethanedioic Acid, Diammonium Salt Monohydrate, $C_2H_8N_2O_4{\cdot}H_2O$
$(NH_4)O(O)CC(O)O(NH_4){\cdot}H_2O$
F.W. 142.11; [6009-70-7]; **Melting Point:** 70°C
Density: 1.5g/mL
DOT Class 6.1: Poison; **UN** 2811

ChemAlert® Storage Code BLUE

Amyl Acetate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A718-500**	107.97	6/446.11
4L	Poly Bottle	**A718-4**	499.00	4/1382.00

Pentyl Acetate, Pentacetate, $C_7H_{14}O_2$
$CH_3(CH_2)_4OC(O)CH_3$; **F.W.** 130.19; [628-63-7]
Melting Point: –70.8°C; **Flash Point:** 40°
Boiling Point: 149°C; **Density:** 0.87g/mL
DOT Class 3: Flammable Liquid **UN** 1104

SOLVENT

ChemAlert® Storage Code RED

n-Amyl Alcohol — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A394-500**	127.00	6/518.00
4L	Glass Bottle	**A394-4**	520.50	4/1410.00

≥98.0 %; 1-Pentyl Alcohol, 1-Pentanol, $C_5H_{12}O$
$CH_3(CH_2)_4OH$; **F.W.** 88.15; [71-41-0]
Melting Point: –78°C; **Flash Point:** 48°
Boiling Point: 137° to 139°C; **Density:** 0.81g/mL
DOT Class 3: Flammable Liquid; **UN** 1105

SOLVENT

ChemAlert® Storage Code RED

Aniline — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A740I-500**	141.50	----
4L	Glass Bottle	**A740I-4**	627.00	----

Phenylamine, Aminobenzene, Benzenamine, C_6H_7N; $C_6H_5NH_2$
F.W. 93.13; [62-53-3]; **Flash Point:** 76°C/168.8°F
Density: 3.3 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1547
This product darkens to a reddish-brown color on storage.

ChemAlert® Storage Code BLUE

8-Anilino-1-naphthalenesulfonic acid

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC40121-0050**	36.10	----
25g	Glass Bottle	**AC40121-0250**	98.40	----

98%; 1,8-ANS, Phenyl peri acid, $C_{16}H_{13}NO_3S$
F.W. 299.34; [82-76-8]
Melting Point: 183° to 183.5°C

m-Anisaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC15676-5000**	471.90	----

97%; $C_8H_8O_2$; CH3OC6H4CHO; **F.W.** 136.15; [591-31-1]
Flash Point: 110; **Boiling Point:** 143.0°C (50.0 mmHg)
Density: 1.119g/mL; **n:** 1.5500 to 1.5540

p-Anisaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC10480-0025**	243.90	----

99+%; 4-Methoxybenzaldehyde, $C_8H_8O_2$; $CH_3OC_6H_4CHO$
F.W. 136.15; [123-11-5]; **Melting Point:** – 1.0°C
Flash Point: 116°C; **Boiling Point:** 248.0°C to 249.0°C
Density: 1.1210g/mL; **n:** 1.5710 to 1.5740

Anisole — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC15392-0025**	204.20	----

99%; Methoxybenzene, C_7H_8O; $C_6H_5OCH_3$
F.W. 108.14; [100-66-3]; **Melting Point:** – 37.0°C
Flash Point: 43°C; **Boiling Point:** 154.0°C
Density: 0.9900g/mL; **n:** 1.5160 to 1.5190

9-Anthracenecarboxaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC15393-5000**	632.70	----

99%; $C_{15}H_{10}O$; **F.W.** 206.24; [642-31-9]
Melting Point: 103.0 to 107.0°C

Antimony Potassium Tartrate Trihydrate — USP

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**A867-250**	175.10	6/723.10
500g	Glass Bottle	**A867-500**	189.80	6/786.00

Crystalline; 99.0 to 103.0 %;
Tartrated Antimony, $C_8H_4K_2O_{12}Sb_2{\cdot}3H_2O$
F.W. 667.85; [28300-74-5]; **Melting Point:** 100°C
Density: 2.6g/mL; **DOT Class 6.1**: Poison; **UN** 1551

ChemAlert* Storage Code: BLUE

L(+)-Arginine hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC10500-0025**	428.30	----

98%; $C_6H_{14}N_4O_2{\cdot}HCl$; $H_2NC(=NH)NH(CH_2)_3CH(NH_2)CO_2H{\cdot}HCl$
F.W. 210.67; [1119-34-2]; **Melting Point:** 226°C

Ascorbic Acid — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A62-500**	393.50	6/1704.00
2.5kg	Poly Bottle	**A62-212**	1274.00	4/3520.00
12kg	Poly Pail	**A62-12**	4250.00	----

Powder; Vitamin C, L-Ascorbic Acid, $C_6H_8O_6$
$CH_2OHCHOHCHCOH{:}COHCOO$
F.W. 176.13; [50-81-7]; **Melting Point:** 190°C
Density: 1.65g/mL; Not for human use.

ChemAlert* Storage Code: GRAY

L-Ascorbic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**A61-25**	41.50	6/182.40
100g	Glass Bottle	**A61-100**	97.90	6/423.50

Crystalline; ≥99.0 %; Vitamin C, Ascorbic Acid, $C_6H_8O_6$
$CH_2OHCHOHCHCOH{:}COHCOO$; **F.W.** 176.13; [50-81-7]
Melting Point: 190°C; **Density:** 1.65g/mL; Not for human use.

ChemAlert* Storage Code: GRAY

L-Ascorbic acid sodium salt

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC35268-0025**	357.30	----

99%; $C_6H_7NaO_6$; **F.W.** 198.11; [134-03-2]
Melting Point: 219° to 221°C

L-Aspartic acid β-benzyl ester

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC44193-0250**	202.40	----

98%; β-Benzyl L-aspartate, H-ASP(OBZL)-OH, $C_{11}H_{13}NO_4$
F.W. 223.23; [2177-63-1]; **Melting Point:** 207° to 208°C

1,1'-Azobis(N,N-dimethylformamide)

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC18571-0050**	513.40	----

98%; Azodicarboxylic acid bis(dimethylamide), Diamide, $C_6H_{12}N_4O_2$
F.W. 172.19; [10465-78-8]; **Melting Point:** 111° to 113.5°C

Barium Diphenylamine Sulfonate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**B38-25**	689.00	6/2993.34

Powder; N-Phenylsulfanilic Acid Barium Salt,
p-Diphenylaminesulfonic Acid Barium Salt, $C_{24}H_{20}BaN_2O_6S_2$
$Ba(C_6H_5NHC_6H_4SO_3)_2$; **F.W.** 633.9; [6211-24-1]
Melting Point: 300°C ; **DOT Class 6.1**: Poison
UN 1564

ChemAlert* Storage Code: BLUE

Bentonite — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**B235-500**	84.31	6/365.41

Powder; Wilkinite, Sodium Montmorillonite, [1302-78-9]
Sodium form.

ChemAlert* Storage Code: GRAY

Benzamidine hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC40179-5000**	1168.50	----

99%; $C_7H_8N_2{\cdot}HCl$; C(NH2)NHC6H5.HCl
F.W. 156.61; [1670-14-0]
Melting Point: 167.0 to 171.0°C

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Benzine (Petroleum Naphtha)

Quantity	Packaging	Cat.No.	Each	Case of
20L	Steel Pail	**B264-20**	441.50	----

Naphtha, C_5toC_{10}hydrocarbons
[64742-89-8, 1330-20-7, 108-38-3, 100-41-4, 71-43-2]
Flash Point: 14°C/57.2°F; **Boiling Point:** 118.5° to 140°C/245.3° to 284.9°F; **Density:** 4.1 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1268

ChemAlert® Storage Code RED

1-Benzocyclobutenecarboxylic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43986-0010**	326.70	----

98%; $C_9H_8O_2$; **F.W.** 148.16; [14381-41-0]
Melting Point: 71.9° to 73.1°C

Benzoic anhydride

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC1055-00025**	462.00	----

98%; $C_{14}H_{10}O_3$; $(C_6H_5CO)_2O$; **F.W.** 226.23; [93-97-0]
Melting Point: 38° to 44°C **Flash Point:** >112°C
Boiling Point: 360°C (760mm Hg); **Density:** 1.19g/mL

Benzophenone — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**B270-500**	171.60	6/715.00

Crystalline Flakes; Diphenyl Ketone, Diphenylmethanone, Benzoylbenzene, $C_{13}H_{10}O$; $C_6H_5COC_6H_5$
F.W. 182.22; ; [119-61-9];
Melting Point: 47° to 49°C/116.6° to 120.2°F
Flash Point: 143°C/289.4°F; **Boiling Point:** 305°C
Density: 1.11g/mL

ChemAlert® Storage Code GRAY

Benzophenone — Pure

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**AC21968-2500**	21.15	----

99+%; Diphenylmethanone, Diphenyl ketone, $C_{13}H_{10}O$; $(C_6H_5)_2CO$
F.W. 182.22; [119-61-9]; **Melting Point:** 47.0°C to 49.0°C;
Flash Point: 143°C; **Boiling Point:** 305.0°C

Benzophenone — Pure

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC10556-0050**	137.00	----

99%; Diphenylmethanone, Diphenyl ketone, $C_{13}H_{10}O$; $(C_6H_5)_2CO$
F.W. 182.22; [119-61-9]; **Melting Point:** 47.0° to 49.0°C
Flash Point: 143°C
Boiling Point: 305.0°C; **UN** 3077

Benzoyl chloride — Pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC10575-0010**	48.45	----
2.5L	Glass Bottle	**AC10575-0025**	110.60	----

99%; C_7H_5ClO; C_6H_5COCl; **F.W.** 140.57; [98-88-4]
Melting Point: – 1.0°C; **Flash Point:** 93°C
Boiling Point: 198.0°C; **Density:** 1.2100g/mL
n: 1.5520 to 1.5540; **UN** 1736

Benzyl Alcohol — NF

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A395-500**	290.00	6/1415.00
4L	Glass Bottle	**A395-4**	755.00	4/2540.00

Benzenemethanol, Phenylcarbinol, C_7H_8O; $C_6H_5CH_2OH$
F.W. 108.14; [100-51-6]; **Melting Point:** –15°C
Flash Point: 96°C/204°F; **Boiling Point:** 205°C
Density: 3.72 (Air = 1.0)

SOLVENT

ChemAlert® Storage Code GRAY

Benzyl Alcohol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A396-500**	168.70	6/708.50
4L	Glass Bottle	**A396-4**	639.64	4/1800.49

Benzenemethanol, Phenylcarbinol, C_7H_8O; **F.W.** 108.14 [100-51-6]; **Melting Point:** –15°C
Flash Point: 96°C/204°F; **Boiling Point:** 205°C
Density: 3.72 (Air = 1.0)

SOLVENT

ChemAlert® Storage Code GRAY

Benzyloxyacetyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43723-0050**	63.10	----
25g	Glass Bottle	**AC43723-0250**	205.00	----

95%; $C_9H_9ClO_2$; **F.W.** 184.62; [19810-31-2]
Flash Point: >110°C; **Boiling Point:** 105°° to 107°C (at 5 Torr)
Density: 1.189g/mL; **UN** 3265

D(+)-Biotin

Quantity	Packaging	Cat.No.	Each	Case of
500mg	Glass Bottle	**AC23009-5000**	37.90	----
1g	Glass Bottle	**AC23009-0010**	60.00	----

98%; Vitamin H, $C_{10}H_{16}N_2O_3S$; **F.W.** 244.31; [58-85-5]
Melting Point: 231.0°C to 233.0°C

Bis(diisopropylamino)chlorophosphine

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC32156-0250**	232.80	----

$C_{12}H_{28}ClN_2P$; $[\{(CH_3)CH\}_n]PCl$; **F.W.** 266.8; [56183-63-2]
Melting Point: 100° to 110°C; **UN** 3261

Bis(pinacolato)diboron

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC33057-1000**	710.50	----

98%; $C_{12}H_{24}B_2O_4$; **F.W.** 253.90; [73183-34-3]
Melting Point: 135.0°C to 140.0°C

3,5-Bis(trifluoromethyl)bromobenzene

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**AC30770-2500**	533.40	----

99%; $C_8H_3BrF_6$; $(CF_3)_2C_6H_3Br$; **F.W.** 293.01; [328-70-1]
Melting Point: – 16.0°C; **Flash Point:** >110°C
Boiling Point: 154.0°C **Density:** 1.7100g/mL
n: 1.4260 to 1.4280

N,O-Bis(trimethylsilyl)trifluoroacetamide

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC16800-0050**	25.30	----
25g	Glass Bottle	**AC16800-0250**	95.70	----
100g	Glass Bottle	**AC16800-1000**	334.00	----
500g	Glass Bottle	**AC16800-5000**	1435.80	----

Silylation reagent; 98+%; BSTFA, $C_8H_{18}F_3NOSi_2$
$CF_3C[=NSi(CH_3)_3]OSi(CH_3)_3$ **F.W.** 257.39; [25561-30-2]
Melting Point: – 10.0°C; **Flash Point:** 23°C
Boiling Point: 45.0°C to 50.0°C (14.0 mmHg); **Density:** 0.9600g/mL
n: 1.3829 to 1.3849; **UN** 2920

Bis(triphenylphosphine)palladium(II) chloride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC29925-1000**	1937.20	----

98%; Dichlorobis(triphenylphosphine)palladium(II), $C_{36}H_{30}Cl_2P_2Pd$
$[(C_6H_5)_3P]_2PdCl_2$; **F.W.** 701.89; [13965-03-2]

1-BOC-4-(Aminomethyl)piperidine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43661-0050**	167.40	----

97%; tert-Butyl 4-(aminomethyl)tetrahydropyridine-1(2H)-carboxylate,
$C_{11}H_{22}N_2O_2$; **F.W.** 214.31; [144222-22-0]; **Flash Point:** >100°C
Boiling Point: 237°° to 238°C (760mm Hg)
Density: 1.013g/mL; **UN** 2735

1-BOC-3-Aminopiperidine

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43660-0010**	343.00	----
5g	Glass Bottle	**AC43660-0050**	714.00	----

97%; $C_{10}H_{20}N_2O_2$; **F.W.** 200.28; [144243-24-3]

1-BOC-3-Azetidinone

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44204-0010**	75.60	----
5g	Glass Bottle	**AC44204-0050**	320.40	----

97%; tert-Butyl 3-oxoazetidine-1-carboxylate, $C_8H_{13}NO_3$
F.W. 171.2 [398489-26-4]; **Melting Point:** 50° to 52°C; **UN** 3335

(R)-N-BOC-α;-Ethylalanine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC44106-1000**	154.00	----
500g	Glass Bottle	**AC44106-5000**	452.20	----

98%; $C_{10}H_{19}NO_4$; **F.W.** 217.27; [123254-58-0]
Melting Point: 104° to 112°C

(S)-N-BOC-α;-Ethylalanine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC44113-1000**	154.00	----

98%; $C_{10}H_{19}NO_4$; **F.W.** 217.27; [151171-11-8]
Melting Point: 104° to 112°C

1-BOC-3-Hydroxyazetidine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44176-0050**	152.70	----

97%; tert-Butyl 3-hydroxyazetidine-1-carboxylate, $C_8H_{15}NO_3$
F.W. 173.21; [141699-55-0]; **Melting Point:** 39° to 44°C

(R)-1-BOC-3-Hydroxypiperidine

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43643-0010**	99.10	----
5g	Glass Bottle	**AC43643-0050**	382.20	----

97%; $C_{10}H_{19}NO_3$; **F.W.** 201.26; [143900-43-0]
Melting Point: 40° to 42°C; **Flash Point:** 104.4°C; **UN** 2811

(S)-1-BOC-3-Hydroxypiperidine

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43644-0010**	93.40	----
5g	Glass Bottle	**AC43644-0050**	411.70	----

97%; $C_{10}H_{19}NO_3$; **F.W.** 201.26; [143900-44-1]
Melting Point: 48.9° to 51.7°C; **Flash Point:** 110°C

N-BOC-4-Piperidone

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC33027-1000**	454.50	----

99%; tert-Butyl 4-oxopiperidine-1-carboxylate,
N-(tert-Butoxycarbonyl)-4-piperidone, $C_{10}H_{17}NO_3$
F.W. 199.25; [79099-07-3] **Melting Point:** 74.0°C to 75.0°C;

9-Borabicyclo[3.3.1]nonane

Quantity	Packaging	Cat.No.	Each	Case of
800mL	AcroSeal® Glass Bottle	**AC16581-8000**	163.80	----

Lewis acid, Reduction reagent; 9-BBN, $C_8H_{15}B$
F.W. 122.02; [280-64-8, 109-99-9]; **Flash Point:** –17°C
Density: 0.8840g/mL; **UN** 3148

2-Bromobenzaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC10665-1000**	326.70	----

97%; C_7H_5BrO; BrC_6H_4CHO; **F.W.** 185.02; [6630-33-7]
Melting Point: 21.0°C to 22.0°C; **Flash Point:** 95°C
Boiling Point: 230.0°C; **Density:** 1.5800g/mL; **n:** 1.5950 to 1.5970

4-Bromobenzaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC10667-5000**	687.50	----

99%; C_7H_5BrO; BrC_6H_4CHO; **F.W.** 185.02; [1122-91-4]
Melting Point: 55.0°C to 58.0°C; **Flash Point:** 108°C

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Bromobenzene — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**B253-1**	276.50	6/1120.00

Monobromobenzene, Phenyl Bromide, C_6H_5Br;
F.W. 157.01; [108-86-1]; **Melting Point:** –31°C
Flash Point: 51°C/123.8°F; **Boiling Point:** 155°C; **Density:** 5.41
DOT Class 3: Flammable Liquid; **UN** 2514

ChemAlert® Storage Code RED

4-Bromobenzoyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC10676-1000**	248.80	----

98%; C_7H_4BrClO; BrC_6H_4COCl; **F.W.** 219.46; [586-75-4]
Melting Point: 36.0°C to 41.0°C; **Flash Point:** >110°C
Boiling Point: 246.0°C; **UN** 3261

2-Bromobenzylamine

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC35051-0250**	350.50	----

98%; C_7H_8BrN; BrC_6H_4CHNH; **F.W.** 186.05; [752160]
n: 1.5875 to 1.5910; **UN** 2735

4-Bromo-3,5-dimethylphenol

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC10687-5000**	2331.10	----

99%; 4-Bromo-3,5-xylenol, C_8H_9BrO; $BrC_6H_2(CH_3)_2OH$
F.W. 201.06; [7463-51-6]; **Melting Point:** 113° to 116°C

2-Bromo-5-iodopyridine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43685-0050**	56.10	----
25g	Glass Bottle	**AC43685-0250**	210.20	----

97%; C_5H_3BrIN; **F.W.** 283.89; [73290-22-9]; **Melting Point:** 123° to 123.6°C

(Bromomethyl)chlorodimethylsilane

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC31332-0050**	36.20	----
25g	Glass Bottle	**AC31332-0250**	96.30	----

95%; $C_3H_8BrClSi$; **F.W.** 187.54; [16532-02-8]; **Flash Point:** 41°C
Boiling Point: 130.0°C to 134.0°C; **Density:** 1.3750g/mL; **UN** 2986

2-Bromo-2-methylpropane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC15926-0025**	850.10	----

96%; tert-Butyl bromide, C_4H_9Br; (CH3)3CBr
F.W. 137.02; [507-19-7]; **Melting Point:** –20.0°C
Flash Point: 18; **Boiling Point:** 72.0 to 74.0°C (760.0 mmHg)
Density: 1.18g/mL; **n:** 1.4269 to 1.4289

5-Bromo-1-pentene

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC29517-0500**	300.70	----

95%; C_5H_9Br; $Br(CH_2)_3CHCH_2$; **F.W.** 149.03; [1119-51-3]
Flash Point: 30°C; **Boiling Point:** 126.0°C to 127.0°C (765.0 mmHg)
Density: 1.2600g/mL; **n:** 1.4620 to 1.4650; **UN** 1993

1-Bromo-2-pentyne

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC43957-0100**	95.00	----

Colorless to yellow liquid; C_5H_7Br**F.W.** 147.01; [16400-32-1]
Flash Point: 36°C; **Boiling Point:** 40-41°C (p20= torr); **n:** 1.508

2-Bromopropane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC10732-0025**	319.10	----

99%; Isopropyl bromide, C_3H_7Br; $(CH_3)_2CHBr$
F.W. 122.99; [75-26-3]; **Melting Point:** – 89.0°C
Flash Point: 1°C; **Boiling Point:** 59.0°C
Density: 1.3100g/mL; **n:** 1.4250 to 1.4270; **UN** 2344

N-Bromosuccinimide

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC10745-0050**	459.00	----

Coupling reagent, C-X bond formation reagent; 99%
NBS, 1-Bromo-2,5-pyrolidinedione, $C_4H_4BrNO_2$
F.W. 177.99; [128-08-5]
Melting Point: 175.0° to 178.0°C; **UN** 3261

n-Butyl Acetate — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**B396-1**	238.42	6/1038.69
4L	Glass Bottle	**B396-4**	442.00	4/1257.00

Acetic Acid Butyl Ester, $C_6H_{12}O_2$; $CH_3COOCH_2(CH_2)_2CH_3$
F.W. 116.16; [123-86-4]; **Melting Point:** –77°C
Flash Point: 22°C/71.6°F; **Boiling Point:** 127° to 126°C/260.6° to 258.8°F; **Density:** 4.0 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1123

SOLVENT — ChemAlert® Storage Code RED

n-Butyl Chloride — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**B429-4**	457.00	4/1160.00
4L	Amber Glass/ Safe-Cote	**B429SK-4**	474.00	4/1225.00

Mobile phase for HPLC applications.
99% min by GC
1-Chlorobutane, n-Propylcarbinyl Chloride, C_4H_9Cl
$CH_3(CH_2)_3Cl$; **F.W.** 92.57; [109-69-3];
Melting Point: –123°C; **Flash Point:** –12°C/+10.4°F
Boiling Point: 79°C **Density:** 3.19 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1127
HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a sub-micron filter to remove particulates.

SOLVENT — ChemAlert® Storage Code RED

n-Butyl Chloride — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**B416-1**	244.50	6/1028.00
4L	Glass Bottle	**B416-4**	575.50	4/1657.00

1-Chlorobutane, n-Propylcarbinyl Chloride, C_4H_9Cl
$CH_3(CH_2)_3Cl$; **F.W.** 92.57; [109-69-3]
Melting Point: –123°C; **Flash Point:** –12°C /+10.4°F
Boiling Point: 79°C; **Density:** 3.19 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1127

SOLVENT

ChemAlert® Storage Code: RED

n-Butyl Phosphate — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**B404-500**	107.80	6/457.17
4L	Glass Bottle	**B404-4**	561.50	4/1611.00

Tributyl Phosphate, Phosphoric Acid Tributyl Ester, $C_{12}H_{27}O_4P$
$(C_4H_9)_3PO_4$; **F.W.** 266.32; [126-73-8]; **Melting Point:** < –80°C
Boiling Point: 289°C; **Density:** 0.98g/mL

ChemAlert® Storage Code: GRAY

n-Butyl Phthalate — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D30-500**	63.76	6/275.19
4L	Glass Bottle	**D30-4**	1116.79	----

Dibutyl Phthalate, 1,2-Benzenedicarboxylic Acid Dibutyl Ester,
$C_{16}H_{22}O_4$; C_6H_4-1,2-$[COO(CH_2)_3CH_3]_2$; **F.W.** 278.35; [84-74-2]
Melting Point: –35°C; **Flash Point:** 157°C/314°F
Boiling Point: 340°C; **Density:** 9.58
DOT Class 9: Miscellaneous; **UN** 3082

ChemAlert® Storage Code: GRAY

Caffeine — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**O1728-500**	291.00	4/1157.00

Powder, Anhydrous; 1,3,7-Trimethylxanthine, Guaranine,
$C_8H_{10}N_4O_2$; **F.W.** 194.19; [58-08-2]
Melting Point: 237.78°C
Boiling Point: 177.78°C; **Density:** 1.23g/mL
DOT Class 6.1: Poison; **UN** 1544

ChemAlert® Storage Code: BLUE

Calcium Stearate — Technical

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Pail	**C136-3**	280.00	----

Powder; Stearic Acid Calcium Salt, Octadecanoic Acid Calcium Salt, $Ca(CH_3(CH_2)_{16}COO)_2$; $Ca(O_2C(CH_2)_{16}CH_3)_2$
F.W. 607.02; [1592-23-0]; **Melting Point:** 145° to 160°C
Density: 1.03g/mL

ChemAlert® Storage Code: GRAY

Carbon, Activated — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C272-500**	284.00	4/843.50
2.5kg	Poly Pail	**C272-212**	755.00	----

Powder; C; [7440-44-0]; **Melting Point:** 3652°C; **Density:** 1.8g/mL
Fine black powder, free from gritty matter.

ChemAlert® Storage Code: GRAY

Carbon, Activated

Quantity	Packaging	Cat.No.	Each	Case of
350g	Glass Bottle	**C270-C**	493.00	----

Granular; Coconut Charcoal, C; [7440-44-0]
Melting Point: 3652°C; **Density:** 1.8g/mL; Grayish-black granules.

ChemAlert® Storage Code: GRAY

Carbon, Darco* G-60, Activated

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**D127-500**	188.50	4/520.50

Black Powder; Activated Charcoal, C; **F.W.** 12.01; [7440-44-0]
Melting Point: 3652°C; **Density:** 1.8g/mL

ChemAlert® Storage Code: GRAY

Carbon, Decolorizing

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C170-500**	124.90	4/365.00

Black Powder; C; **F.W.** 12.01; [7440-44-0]; **Melting Point:** 3652°C
Density: 1.8g/mL

ChemAlert® Storage Code: GRAY

Carbon, Lampblack

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**C198-500**	130.83	4/362.24

Oil Black (Lampblack), Carbon Black, C
F.W. 12.01; [1333-86-4]

ChemAlert® Storage Code: GRAY

Carbon tetrachloride — For spectroscopy

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC16772-5000**	184.30	6/918.00

For UV/VIS spectroscopy; 99%; C Cl4; CCl; **F.W.** 153.82;
Melting Point: 23.0C; **Boiling Point:** 76.0C
Density: 1.5940g/mL; **n:** 1.4590 to 1.4610; **UN** 1846

Carbon tetrachloride — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC14817-0010**	293.04	6/1449.21
2.5L	Glass Bottle	**AC14817-0025**	540.24	4/1781.90

99%; CCl_4; CCl_4; **F.W.** 153.82; [56-23-5]; **Melting Point:** –23°C
Boiling Point: 76°C (760mm Hg); **Density:** 1.594g/mL
n: 1.4590 to 1.4610 **UN** 1846

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1,1';-Carbonyldiimidazole

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC15181-0100**	39.70	----
25g	Glass Bottle	**AC15181-0250**	80.10	----
100g	Glass Bottle	**AC15181-1000**	240.00	----

Coupling reagent; 97%; $C_7H_6N_4O$; **F.W.** 162.15; [530-62-1]
Melting Point: 118.0°C to 120.0°C; **UN** 3259

Carboxymethylecellulose, sodium salt

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Drum	**AC33260-0050**	344.40	----

[9004-32-4]; **Melting Point:** >300°C

Chloroacetic Acid

Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A176-500**	114.40	6/476.00

White Flakes; Monochloroacetic Acid, Chloroethanoic Acid, $C_2H_3ClO_2$; $CH_2ClCOOH$; **F.W.** 94.5; [79-11-8]
Melting Point: 61° to 63°C; **Boiling Point:** 189°C
Density: 1.58g/mL; **DOT Class 6.1**
Poison; **UN** 1751

ChemAlert™ Storage Code WHITE

1-(4-Chlorobenzhydryl)piperazine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC10865-1000**	850.30	----

90-95%; 1-(4-Chlorophenylmethyl)piperazine, $C_{17}H_{19}ClN_2$
F.W. 286.79; [303-26-4]; **Melting Point:** 65.0 to 75.0°C
Flash Point: >110
Boiling Point: 178.0 to 180.0°C (0.5 mmHg)

chlorodiisopropylsilane

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC31344-0050**	79.60	----

95%; $C_6H_{15}ClSi$; **F.W.** 150.73; [2227-29-4]
Flash Point: 22°C; **Boiling Point:** 137°C (760mm Hg)
Density: 0.872g/mL; **UN** 2985

2-Chloro-N-(2,6-dimethylphenyl)acetamide

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC13544-0100**	59.00	----

98%; 2-Chloro-N-(2,6-dimethylphenyl)acetamide, N-(2,6-Dimethylphenyl) chloroacetamide, $C_{10}H_{12}ClNO$; $(CH_3)_2C_6H_3NHC(=O)CH_2Cl$
F.W. 197.66; [1131-01-7]; **Melting Point:** 143.0°C to 148.0°C

4-Chloroindole

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC12323-0050**	689.50	----

99%; C_8H_6ClN; **F.W.** 151.60; [25235-85-2]; **Flash Point:** >110°C
Boiling Point: 129.0°C to 130.0°C (4.0 mmHg)
Density: 1.2500g/mL
n: 1.6270 to 1.6290

Chloroiodomethane

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC22215-5000**	2628.50	----

Alkylation reagent; 98%; CH_2ClI; ClCH2I
F.W. 176.38; [593-71-5, 7440-22-4]
Boiling Point: 108.0 to 109.0°C (760.0 mmHg)
Density: 2.42g/mL
n: 1.5812 to 1.5832

Chloromethanesulfonyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC22246-0050**	61.30	----

95%; $CH_2Cl_2O_2S$; $ClCH_2SO_2Cl$; **F.W.** 149.00; [3518-65-8]
Flash Point: >110°C; **Boiling Point:** 80.0°C to 81.0°C
Density: 1.6500g/mL

4-Chloro-3-methylbenzylamine hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC42966-0010**	253.20	----
5g	Glass Bottle	**AC42966-0050**	714.00	----

97%; $C_8H_9N{\cdot}ClH$; **F.W.** 192.09; [1264198-68-6]
Melting Point: 252.3°C to 253.5°C

3-Chloroperoxybenzoic acid

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC25579-1000**	81.80	----
500g	Plastic Bottle	**AC25579-5000**	276.50	----
1kg	Plastic Bottle	**AC25579-0010**	510.00	----

Oxidation reagent; 70-75%; m-Chloroperbenzoic acid, m-CPBA, MCPBA, $C_7H_5ClO_3$; $ClC_6H_4CO_3H$; **F.W.** 172.57; [937-14-4, 535-80-8, 7732-18-5]
Melting Point: 92.0°C to 94.0°C
Density: 0.5600g/mL; **UN** 3106

4-chlorophenethylebromide

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44018-0050**	102.10	----

95%; 4-chloro-1-(2-bromoethyl)benzene, C_8H_8BrCl
F.W. 219.51; [6529-53-9]; **Flash Point:** >110°C
Boiling Point: 85°C (at 1 Torr); **Density:** 1.508g/mL **UN** 3082

7-Chloropyrazolo[1,5-a]pyrimidine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43849-0050**	1140.30	----

95%; $C_6H_4ClN_3$; **F.W.** 153.57; [58347-49-2]
Melting Point: 98.0°C to 102.0°C

N-(5-Chloro-2-pyridyl)bis(trifluoromethanesulfonimide)

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC37880-0250**	547.60	----

Coupling reagent; 2-[N,N-Bis(trifluoromethylsulfonyl)amino]-5-chloropyridine, $C_7H_3ClF_6N_2O_4S_2$; **F.W.** 392.69; [145100-51-2]
Melting Point: 45.0°C to 47.0°C
Boiling Point: 77.0°C to 90.0°C (0.2 mmHg)

2-chloro-5-pyrimidinecarbonyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44131-0010**	333.90	----

95%; $C_5H_2Cl_2N_2O$; **F.W.** 176.99; [110099-99-5]
Melting Point: 50° to 51°C; **UN** 3261

2-chloropyrimidine-5-carboxaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43845-0010**	290.80	----
5g	Glass Bottle	**AC43845-0050**	1172.50	----

97%; $C_5H_3ClN_2O$; **F.W.** 142.55; [933702-55-7]
Melting Point: 113° to 115°C

2-Chloropyrimidine-5-carboxylic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC42947-0010**	285.10	----

97%; $C_5H_3ClN_2O_2$; **F.W.** 158.54
[374068-01-6]

N-Chlorosuccinimide

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC14925-0025**	331.80	----

C-X bond formation reagent; 97%; NCS, $C_4H_4ClNO_2$
F.W. 133.53; [128-09-6]; **Melting Point:** 144.0°C to 150.0°C
Flash Point: >110°C

Chlortetracycline hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
2.5g	Glass Bottle packed in plastic container	**AC26824-0025**	308.50	----

CTC, $C_{22}H_{23}ClN_2O_8{\cdot}HCl$; **F.W.** 515.33; [64-72-2]
Melting Point: 220.0°C

Chlorotrimethylsilane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC11012-0025**	220.50	----

Silylation reagent; 98%; CSI, Trimethylchlorosilane, Trimethylsilyl chloride, C_3H_9ClSi; $(CH_3)_3SiCl$; **F.W.** 108.64; [75-77-4]
Melting Point: – 58.0°C; **Flash Point:** –28°C
Boiling Point: 57.0°C; **Density:** 0.8500g/mL
n: 1.3870 to 1.3890; **UN** 1298

Chromotropic Acid Disodium Salt Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**C613-25**	316.79	6/1379.44

4,5-Dihydroxy-2,7-naphthalene Disulfonic Acid Disodium Salt, $C_{10}H_6O_8S_2Na_2{\cdot}2H_2O$; **F.W.** 400.28; [5808-22-0]
Melting Point: >300°C

ChemAlert® Storage Code GRAY

m-Cresol

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC11058-5000**	79.10	----
1kg	Glass Bottle	**AC11058-0010**	121.20	----
10kg	Metal Drum	**AC11058-0100**	697.50	----

99%; 3-Methylphenol, 3-Hydroxytoluene, C_7H_8O; $CH_3C_6H_4OH$
F.W. 108.14; [108-39-4]; **Melting Point:** 8.0°C to 10.0°C
Flash Point: 86°C; **Boiling Point:** 203.0°C
Density: 1.0300g/mL; **n:** 1.5390 to 1.5410; **UN** 2076

18-Crown-6

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC18156-5000**	1083.30	----

Chelation/Complexation reagent; 99%; $C_{12}H_{24}O_6$
F.W. 264.32; [17455-13-9] **Melting Point:** 36.0 to 40.0°C
Flash Point: >110

Curcumin (mixture of curcumin, demethoxycurcumin, and bisdemethoxycurcumin)

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**AC21858-2500**	672.10	----

98+%; $C_{21}H_{20}O_6$; óHOC6H3(OCH3)CH=CHCO!2CH2
F.W. 368.38; [458-37-7]; **Melting Point:** 183.0°C; **n:** 1.4155 to 1.4175

Cyclobutanone

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC11093-0250**	922.00	----

98+%; C_4H_6O; $C_4H_6(=O)$; **F.W.** 70.09; [1191-95-3]; **Melting Point:** – 50.9°C
Flash Point: 10°C; **Boiling Point:** 99.0°C;
Density: 0.9300g/mL; **n:** 1.4205 to 1.4225; **UN** 1224

1,3-Cycloheptanedione

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44045-0010**	317.60	----

97%; $C_7H_{10}O_2$; **F.W.** 126.16; [1194-18-9]; **Flash Point:** >100°C
Boiling Point: 254°C; **Density:** 1.1g/mL

Cyclohexanol — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**C558-500**	119.60	6/498.00

Hexahydrophenol, Hexalin, $C_6H_{12}O$; $CH_2(CH_2)_4CHOH$
F.W. 100.16; [108-93-0]; **Melting Point:** 23°C; **Boiling Point:** 161°C
Density: 0.96g/mL

ChemAlert® Storage Code GRAY

Cyclohexene — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Amber Glass	**O2111-1**	153.28	6/637.59

≥98 %; 1,2,3,4-Tetrahydrobenzene, C_6H_{10}
$CHCH(CH_2)_3CH_2$; **F.W.** 82.15; [110-83-8, 128-37-0]
Melting Point: –104°C **Flash Point:** –20°
Boiling Point: 83°C; **Density:** 0.81g/mL
DOT Class 3: Flammable Liquid; **UN** 2256

SOLVENT

ChemAlert® Storage Code RED

Fisher Scientific

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Prices subject to change.

(1,2-Cyclohexylenedinitrilo)-tetraacetic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O2116-100**	437.00	6/1899.00

97.5 to 100.5 %
trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraacetic Acid, $C_{14}H_{22}N_2O_8 \cdot H_2O$; **F.W.** 364.35; [125572-95-4]

SOLVENT — ChemAlert® Storage Code GRAY

Cyclopentylboronic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC35906-0010**	56.70	----

95%; $C_5H_{11}BO_2$; **F.W.** 113.95; [63076-51-7]
Melting Point: 134° to 142°C

Cyclopentyl iodide

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Glass Bottle	**AC38173-0050**	41.30	----
25mL	Glass Bottle	**AC38173-0250**	142.30	----

98%; Iodocyclopentane, C_5H_9I; C_5H_9I; **F.W.** 196.03; [1556-18-9]
Flash Point: 59°C; **Boiling Point:** 166°° to 167°C (760mm Hg)
Density: 1.695g/mL; **UN** 1993

Cyclopentyl isocyanide

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC37209-0050**	614.80	----

96%; C_6H_9N; **F.W.** 95.14; [68498-54-4]; **Boiling Point:** 40.0°C (11.0 hPa)
Density: 0.8600g/mL; **n:** 1.4390 to 1.4410

2-Cyclopropyl-2-propylamine p-toluenesulfonate salt

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43936-0010**	113.80	----

98%; α;,α;-Dimethylcyclopropylmethylamine p-toluenesulfonate salt, $C_6H_{13}N \cdot C_7H_8O_3S$; **F.W.** 271.38; [172947-14-7]
Melting Point: 166° to 168°C

Decane — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O2128-500**	170.20	6/740.50

$C_{10}H_{22}$; $CH_3(CH_2)_8CH_3$; **F.W.** 142.28; [124-18-5]
Melting Point: –29.7°C; **Flash Point:** 46°C/114.8°F
Boiling Point: 173.89°C; **Density:** 4.9
DOT Class 3: Flammable Liquid; **UN** 2247

SOLVENT — ChemAlert® Storage Code RED

Decane — Pure

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC11187-1000**	36.75	----
500mL	Glass Bottle	**AC11187-5000**	107.10	----

99+%; C10 H22; $CH_3(CH_2)_8CH_3$; **F.W.** 142.28
Melting Point: – 30.0°C; **Flash Point:** 46°C
Boiling Point: 174.0°C; **Density:** 0.7350g/mL
n: 1.4103 to 1.4123; **UN** 2247

Dextrose (D-Glucose) Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**D16-500**	88.30	6/387.32
1kg	Poly Bottle	**D16-1**	156.70	6/675.00
3kg	Glass Bottle	**D16-3**	305.50	4/888.00
10kg	Poly Pail	**D16-10**	589.50	----
50kg	Fiber Drum	**D16-50**	2082.73	----

Granular Powder; D-Glucose, Blood Sugar, Grape Sugar, Corn Sugar, $C_6H_{12}O_6$; $CH_2OH(CHOH)_4CHO$
F.W. 180.16; [50-99-7]

ChemAlert® Storage Code GRAY

Dextrose Monohydrate — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**D15-500**	95.90	6/415.52
3kg	Poly Pail	**D15-3**	353.50	----
12kg	Poly Pail	**D15-12**	1030.00	----

Powder; D-Glucose Monohydrate, $C_6H_{12}O_6 \cdot H_2O$
$CH_2OHCHO(CHOH)_3CHOH \cdot H_2O$; **F.W.** 198.17; [5996-10-1]
Density: 1.54g/mL

ChemAlert® Storage Code GRAY

1,4-Diazabicyclo[3.2.2]nonane

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43890-0010**	293.90	----
5g	Glass Bottle	**AC43890-0050**	1172.50	----

95%; $C_7H_{14}N_2$; **F.W.** 126.2; [283-38-5]; **Melting Point:** 58° to 79°C
Boiling Point: 77°° to 79°C (at 6 Torr); **UN** 3259;

1,2-Dibromoethane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC11279-0025**	131.50	----

99%; Ethylene dibromide, EDB, $C_2H_4Br_2$; $BrCH_2CH_2Br$
F.W. 187.86
[106-93-4]; **Melting Point:** 9.0°C to 10.0°C; **Flash Point:** >104°C
Boiling Point: 131.0°C to 132.0°C; **Density:** 2.1730g/mL
n: 1.5375 to 1.5395; **UN** 1605

Dibutylamine — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O2199-500**	68.17	6/294.74
1L	Glass Bottle	**O2199-1**	119.40	6/518.50

n-Butyl-1-butanamine, $C_8H_{19}N$; $[CH_3(CH_2)_3]_2NH$; **F.W.** 129.25
[111-92-2]; **Melting Point:** –62°C; **Flash Point:** 47°
Boiling Point: 159°C; **Density:** 0.76g/mL; **DOT Class 8**: Corrosive
UN 2248

ChemAlert® Storage Code RED

Dibutyltin dilaurate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Plastic Bottle	**AC38269-0050**	34.50	----

94%; Dodecanoic acid 1,1';-(dibutylstannylene) ester, $C_{32}H_{64}O_4Sn$
$[CH_3(CH_2)_3]_2Sn[OC(O)CH_2(CH_2)_9CH_3]_2$;
F.W. 631.57; [77-58-7]; **Melting Point:** 16.0°C to 18.0°C
Flash Point: 149°C; **Boiling Point:** 205.0°C (12.0 mmHg)
Density: 1.0500g/mL; **UN** 2788

1,2-Dichlorobenzene — Pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC11318-0010**	74.80	299.20
2.5L	Glass Bottle	**AC11318-0025**	141.40	565.60

99%; o-Dichlorobenzene, $C_6H_4Cl_2$; $C_6H_4Cl_2$; **F.W.** 147.00; [95-50-1]
Melting Point: – 15.0°C; **Flash Point:** 67°C
Boiling Point: 179.0°C to 180.0°C; **Density:** 1.3000g/mL
n: 1.5500 to 1.5520; **UN** 1591

o-Dichlorobenzene — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O2231-1**	182.89	6/790.35

1,2-Dichlorobenzene, ortho-Dichlorobenzene, $C_6H_4Cl_2$
F.W. 147; [95-50-1]; **Melting Point:** –15°C
Boiling Point: 179° to 180°C; **Density:** 1.3g/mL
DOT Class 6.1: Poison; **UN** 1591

SOLVENT — ChemAlert* Storage Code BLUE

3,4-Dichlorocinnamic acid

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC16312-0250**	94.30	----

97%; $C_9H_6Cl_2O_2$; $Cl_2C_6H_3CH{=}CHCO_2H$; **F.W.** 217.05; [1202-39-7]
Melting Point: 220° to 223°C

2,4-Dichloro-5-fluoropyrimidine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44322-0050**	420.60	----

97%; $C_4HCl_2FN_2$; **F.W.** 166.97; [2927-71-1]
Melting Point: 38° to 40°C
Boiling Point: 67°° to 68°C (6 Torr); **UN** 3261

2,6-Dichloroindophenol, sodium salt hydrate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC15287-1000**	482.60	----

98+%; $C_{12}H_6Cl_2NNaO_2{\cdot}xH_2O$
F.W. 290.07; [1266615-56-8]

2,6-Dichloroindophenol Sodium Salt — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**S286-5**	216.50	6/944.50

Sodium Benzenoneindophenol, Sodium 2, 6-Dichlorobenzenenoneindophenol, Tillman's Reagent, 2,6-Dichlorobenzenone Indophenol Sodium Salt, $C_{12}H_6Cl_2NO_2Na{\cdot}2H_2O$; $NaOC_6H_4N{:}C_6H_2Cl_2{:}O$
F.W. 290.08; [620-45-1]
For ascorbic acid determination.

ChemAlert* Storage Code GRAY

N,N';-Dicyclohexylcarbodiimide

Quantity	Packaging	Cat.No.	Each	Case of
25kg	Plastic Jerry Can	**AC11390-0250**	3272.70	----

Coupling reagent; 99%; DCC, $C_{13}H_{22}N_2$; $C_6H_{11}N{=}C{=}NC_6H_{11}$; **F.W.** 206.33 [538-75-0]; **Melting Point:** 33.0°C to 35.0°C; **Flash Point:** >110°C
Boiling Point: 122.0°C to 124.0°C (6.0 mmHg); **UN** 2928

2-Dicyclohexylphosphino-2',6'-dimethoxybiphenyl

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44186-0010**	82.50	----

97%; Sphos, $C_{26}H_{35}O_2P$; **F.W.** 410.54; [657408-07-6]
Melting Point: 164.0°C to 166.0°C

Diethanolamine — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D45-500**	73.50	6/321.50

2,2'-Iminodiethanol, Diethylolamine, Bis(hydroxyethyl)amine, $C_4H_{11}NO_2$; $(HOCH_2CH_2)_2NH$; **F.W.** 105.14; [111-42-2, 7732-18-5]
Melting Point: –6°C; **Flash Point:** 137°; **Boiling Point:** 268°C
Density: 1.09g/mL; **DOT Class 8**: Corrosive; **UN** 3267

ChemAlert* Storage Code WHITE

Diethylamine — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**D46-500**	147.20	6/621.00
1L	Glass Bottle	**D46-1**	228.50	6/988.50

N-Ethylethanamine, $C_4H_{11}N$; $(C_2H_5)_2NH$; **F.W.** 73.14 [109-89-7]; **Melting Point:** –50°C; **Flash Point:** –23°C/–9.4°F; **Boiling Point:** 55° to 58°C/131° to 136.4°F
Density: 2.5; **DOT Class 3**: Flammable Liquid; **UN** 1154

SOLVENT — ChemAlert* Storage Code RED

Diethylamine — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC37837-0025**	641.30	----

99.5%; $C_4H_{11}N$; $(C_2H_5)_2NH$; **F.W.** 73.13; [109-89-7]; **Melting Point:** – 50.0°C
Flash Point: –23°C; **Boiling Point:** 55.0°C; **Density:** 0.7100g/mL
n: 1.3840 to 1.3860; **UN** 1154

Diethylamine — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC14945-0100**	305.90	----

99+%; $C_4H_{11}N$; $(C_2H_5)_2NH$; **F.W.** 73.13; [109-89-7]
Melting Point: – 50.0°C; **Flash Point:** –23°C; **Boiling Point:** 55.0°C
Density: 0.7100g/mL
n: 1.3840 to 1.3860

Diethylbenzene

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC11416-0100**	339.10	----

$C_{10}H_{14}$; **F.W.** 134.22; [25340-17-4]; **Melting Point:** –73°C
Flash Point: 56°C; **Boiling Point:** 180°° to 182°C (760mm Hg)
Density: 0.869g/mL
n: 1.4940 to 1.4960; **UN** 2049

Diethyl chlorophosphate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC40724-5000**	346.00	----

95%; Diethyl phosphorochloridate, $C_4H_{10}ClO_3P$; $(C_2H_5O)_2POCl$
F.W. 172.55; [814-49-3]; **Boiling Point:** 81°C (6mm Hg)
Density: 1.19g/mL
n: 1.4160 to 1.4180; **UN** 2927

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Diethylene glycol dibutyl ether — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC19498-0025**	453.80	----

99+%; Butyl diglyme, Dibutyl Carbitol™, Bis(2-butoxyethyl)ether, $C_{12}H_{26}O_3$ $[CH_3(CH_2)_3OCH_2CH_2]_2O$; **F.W.** 218.34; [112-73-2]
Melting Point: – 60.0°C; **Flash Point:** 118°C
Boiling Point: 256.0°C; **Density:** 0.8800g/mL
n: 1.4225 to 1.4245

Diethylene Glycol Monobutyl Ether — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**D50-4**	270.00	4/776.00

2-(2-Butoxyethoxy)ethanol, Butyl Carbitol, Butyl Digol, $C_8H_{18}O_3$ $CH_3(CH_2)_3OCH_2CH_2OCH_2CH_2OH$; **F.W.** 162.23; [112-34-5]
ChemAlert® Storage Code GRAY
Melting Point: –68°C; **Flash Point:** 100°C/212°F
Boiling Point: 231°C; **Density:** 5.6

Diethylene Glycol Monoethyl Ether — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**D51-4**	257.50	4/738.50

Carbitol, 2-(2-Ethoxyethoxy)ethanol, Ethyl Digol, $C_6H_{14}O_3$ $C_2H_5OCH_2CH_2OCH_2CH_2OH$; **F.W.** 134.18; [111-90-0]
ChemAlert® Storage Code GRAY
Melting Point: –80°C; **Boiling Point:** 197°C; **Density:** 0.99g/mL

Diethylene Glycol — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**D49-1**	100.70	6/439.00

2,2'-Oxybis[ethanol], 2,2'-Oxydiethanol, β,β'-Dihydroxyethyl Ether, Glycol Ether, $C_4H_{10}O_3$; $(HOCH_2CH_2)_2O$; **F.W.** 106.12; [111-46-6]
ChemAlert® Storage Code GRAY
Melting Point: –10°C; **Boiling Point:** 245°C; **Density:** 1.11g/mL

Diethylenetriaminepentaacetic acid

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC11432-0050**	247.50	----

Chelation/Complexation reagent; 98+%; (Carboxymethylimino) bis(ethylenenitrilo)tetraacetic acid, Pentetic acid, DTPA, $C_{14}H_{23}N_3O_{10}$
F.W. 393.34; [67-43-6]; **Melting Point:** 220°C; **Flash Point:** 200°C
Density: 1.56g/mL

N,N-Diethyl-p-phenylenediamine Oxalate — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**O2358-25**	184.60	6/801.00

≥85 %; p-Amino-Diethylaniline Oxalate, $C_{22}H_{34}N_4O_4$; $[(CH_3CH_2)_2NC_6H_4NH_2]_2(COOH)_2$; **F.W.** 418.55; [62637-92-7]
ChemAlert® Storage Code GRAY
Melting Point: 159°C

L-3,4-Dihydroxyphenylalanine methyleester hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43949-0010**	133.50	----
5g	Glass Bottle	**AC43949-0050**	391.50	----

97%; $C_{10}H_{13}NO_4{\cdot}ClH$; **F.W.** 247.68; [1421-65-4]
Melting Point: 94.2° to 94.3°C

3,6-Dihydro-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2H-thiopyran

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC42961-0050**	694.30	----

$C_{11}H_{19}BO_2S$; **F.W.** 226.14; [862129-81-5]
Melting Point: 42.0°C to 44.5°C

Diiodomethane

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC16983-0025**	1237.10	----

99+%; Methylene iodide, CH_2I_2; CH_2I_2; **F.W.** 267.83
[75-11-6, 7440-22-4] ;**Melting Point:** 6.0°C; **Flash Point:** >110°C
Boiling Point: 181.0°C
Density: 3.3200g/mL; **n:** 1.7370

1,4-Diisocyanatobutane

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC31438-0250**	1565.60	----

97%; $C_6H_8N_2O_2$; $OCN(CH)_4NCO$; **F.W.** 140.14; [4538-37-8]
Flash Point: 106°C; **Boiling Point:** 102°° to 104°C (14mm Hg)
Density: 1.1g/mL; **n:** 1.4510 to 1.4530; **UN** 2206

Diisopropylamine — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O2412-4**	290.00	4/798.50

N-(1-Methylethyl)-2-propanamine, DIPA, DPA, $C_6H_{15}N$
SOLVENT
ChemAlert® Storage Code RED
F.W. 101.19; [108-18-9]; **Melting Point:** –61°C
Flash Point: –28°; **Boiling Point:** 84°C; **Density:** 0.72g/mL
DOT Class 3: Flammable Liquid; **UN** 1158

Diisopropylamine

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC14946-0010**	63.70	----
2.5L	Glass Bottle	**AC14946-0025**	99.30	----

99%; (N-(1-Methylethyl)-2)propanamine, $C_6H_{15}N$; $[(CH_3)_2CH]_2NH$
F.W. 101.19; [108-18-9]; **Melting Point:** – 61.0°C
Flash Point: –17°C; **Boiling Point:** 84.0°C
Density: 0.7160g/mL
n: 1.3910 to 1.3930; **UN** 1158

Diisopropyl azodicarboxylate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC32756-0050**	26.45	----
25g	Glass Bottle	**AC32756-0250**	37.45	----
100g	Glass Bottle	**AC32756-1000**	88.80	----

C-X Bond Formation (Halogen), Radical initiators; 94%; DIAD, $C_8H_{14}N_2O_4$ $(CH_3)_2CHO_2CN{=}NCO_2CH(CH_3)_2$
F.W. 202.21; [2446-83-5]
Melting Point: 3.0°C to 5.0°C; **Flash Point:** 106°C
Boiling Point: 75.0°C (0.2 mmHg)
Density: 1.0200g/mL; **n:** 1.4180 to 1.4220; **UN** 3082

N,N-Diisopropylcarbamoyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC31452-0250**	172.70	----

98%; $C_7H_{14}ClNO$; $[(CH_3)CH]_nCOCl$; **F.W.** 163.65; [19009-39-3]
Melting Point: 58.1° to 59.1°C; **Boiling Point:** 90°° to 93°C (15mm Hg)
UN 3261

N,N'-Diisopropylcarbodiimide

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC11521-0250**	61.50	----
100g	Glass Bottle	**AC11521-1000**	222.00	----

Coupling reagent; 99%; $C_7H_{14}N_2$; $(CH_3)_2CHN{=}C{=}NCH(CH_3)_2$
F.W. 126.2; [693-13-0]; **Flash Point:** 33°C
Boiling Point: 145° to 148°C (760mm Hg)
Density: 0.81g/mL; **n:** 1.4320 to 1.4350; **UN** 3384

Diisopropyldichlorosilane

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43236-0050**	84.40	----
25g	Glass Bottle	**AC43236-0250**	294.00	----

97%; $C_6H_{14}Cl_2Si$; **F.W.** 185.17; [7751-38-4]; **Flash Point:** 43°C
Boiling Point: 168.0°C to 170.0°C; **Density:** 1.0260g/mL; **UN** 2986

N,N-Diisopropylethylamine

Quantity	Packaging	Cat.No.	Each	Case of
25mL	Glass Bottle	**AC36784-0250**	29.95	----
50mL	Glass Bottle	**AC36784-0500**	47.75	----
100mL	Glass Bottle	**AC36784-1000**	62.70	----
1L	Glass Bottle	**AC36784-0010**	311.50	----

99.5+%; N-Ethyldiisopropylamine, $C_8H_{19}N$; $[(CH_3)_2CH]_2NC_2H_5$
F.W. 129.24; [7087-68-5]; **Melting Point:** – 46.0°C
Flash Point: 6°C; **Boiling Point:** 127.0°C; **Density:** 0.7820g/mL
n: 1.4123 to 1.4143; **UN** 2733

2,5-Dimethoxybenzaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC11539-5000**	211.70	----

97%; $C_9H_{10}O_3$; $(CH_3O)_2C_6H_3CHO$; **F.W.** 166.18; [93-02-7]
Melting Point: 45.0° to 50.0°C; **Flash Point:** >110°C
Boiling Point: 146.0°C (10.0mmHg)

3,5-Dimethoxybenzylamine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43780-0050**	101.80	----
25g	Glass Bottle	**AC43780-0250**	393.00	----

98%; $C_9H_{13}NO_2$; **F.W.** 167.21; [34967-24-3]
Melting Point: 35° to 37°C
Flash Point: 110°C; **Boiling Point:** 108°° to 110°C (0.5mm Hg)
Density: 1.11g/mL; **UN** 3259

1,2-Dimethoxyethane — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O2430-1**	257.50	6/1112.00
4L	Glass Bottle	**O2430-4**	750.00	4/2191.75

Ethylene Glycol Dimethyl Ether, Glyme, $C_4H_{10}O_2$
$CH_3OCH_2CH_2OCH_3$; **F.W.** 90.12; [110-71-4]
Melting Point: –58°C; **Flash Point:** –6°
Boiling Point: 82° to 83°C; **Density:** 0.86g/mL
DOT Class 3: Flammable Liquid; **UN** 2252

SOLVENT — ChemAlert* Storage Code RED

3,5-Dimethoxy-4-hydroxycinnamic acid

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC11555-0250**	310.70	----

98%; Sinapinic acid, $C_{11}H_{12}O_5$; $HOC_6H_2(OCH_3)_2CH{=}CHCO_2H$
F.W. 224.21; [530-59-6]; **Melting Point:** 203.0°C to 205.0°C

3,4-Dimethoxy-N-methylbenzylamine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43968-0050**	157.70	----

97%; $C_{10}H_{15}NO_2$; **F.W.** 181.24; [63-64-9]; **Flash Point:** 110°C; **UN** 2735

4,5-Dimethoxy-2-nitrobenzyl bromide

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44077-0010**	84.20	----

97%; 6-Nitroveratryl bromide, $C_9H_{10}BrNO_4$; **F.W.** 276.09; [53413-67-5]
Melting Point: 130° to 132°C; **UN** 3261

p-Dimethylaminobenzaldehyde — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**D71-25**	89.80	6/409.50
100g	Glass Bottle	**D71-100**	236.00	6/1015.00

Crystalline Powder; Ehrlich's Reagent,
4-Dimethylaminobenzenecarbonal, $C_9H_{11}NO$; $(CH_3)_2NC_6H_4CHO$
F.W. 149.19; [100-10-7]; **Melting Point:** 70° to 75°C/158° to 167°F
Flash Point: 164°C/327.2°F; **Boiling Point:** 176° to 177°C at 17 mmHg
Density: 5.15

ChemAlert* Storage Code GRAY

1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC17144-0100**	94.10	----
50g	Glass Bottle	**AC17144-0500**	396.50	----
100g	Glass Bottle	**AC17144-1000**	635.00	----

Coupling reagent; 98+%; EDAC hydrochloride, N-Ethyl-N'
-(3-dimethylaminopropyl)carbodiimide hydrochloride, $C_8H_{17}N_3{\cdot}HCl$
$(CH_3)_2NCH_2CH_2CH_2N{=}C{=}NCH_2CH_3$; **F.W.** 191.71; [25952-53-8]
Melting Point: 111.0°C to 116.0°C; **UN** 2811

9,9-Dimethyl-4,5-bis(diphenylphosphino)xanthene

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC37806-0010**	58.00	----
5g	Glass Bottle	**AC37806-0050**	232.50	----

98%; $C_{39}H_{32}OP_2$; **F.W.** 578.63; [161265-03-8]
Melting Point: 226° to 230°C; **UN** 3464

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1,2-Dimethyl-1H-imidazole-5-sulfonyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC42964-0010**	358.00	----

97%; $C_5H_7ClN_2O_2S$; **F.W.** 194.64; [849351-92-4]
Melting Point: 44° to 47°C; **UN** 3261

4,4-Dimethyl-2-oxazoline

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC35527-0500**	588.50	----

98%; C_5H_9NO; **F.W.** 99.13; [30093-99-3]; **Flash Point:** 1°C
Boiling Point: 99.0°C to 100.0°C; **Density:** 0.9400g/mL; **n:** 1.4190 to 1.4240
UN 1993

4,5-Dimethyl-o-phenylenediamine

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC11661-0050**	75.00	----
25g	Glass Bottle	**AC11661-0250**	228.00	----

98%; 4,5-Diamino-o-xylene, $C_8H_{12}N_2$; $(CH_3)_2C_6H_2(NH_2)_2$; **F.W.** 136.19
[3171-45-7]; **Melting Point:** 127.2° to 128.3°C; **UN** 2811

Dinonyl phthalate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC40877-1000**	353.80	----

97%; $C_{26}H_{42}O_4$; **F.W.** 418.61; [84-76-4]; **Flash Point:** 216°C
Boiling Point: 279.0°C to 287.0°C; **Density:** 0.9700g/mL
n: 1.4825 to 1.4845

1,3-Diphenylacetone

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC11717-5000**	537.00	----

99%; 1,3-Diphenyl-2-propanone, Dibenzyl ketone, $C_{15}H_{14}O$
$C_6H_5CH_2COCH_2C_6H_5$; **F.W.** 210.27; [102-04-5]
Melting Point: 30.0°C to 34.0°C; **Flash Point:** >110°C
Boiling Point: 330.0°C; **Density:** 1.0400g/mL

1,5-Diphenylcarbazide

Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**D85-25**	240.50	6/1049.00

Powder; sym-Diphenylcarbazide, 1,5-Diphenylcarbohydrazide,
$C_{13}H_{14}N_4O$; $C_6H_5NHNHCONHNHC_6H_5$
F.W. 242.28; [140-22-7]
Melting Point: 173° to 176°C/343.4° to 348.8°F

ChemAlert® Storage Code GRAY

N,N'-Diphenylurea

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC16185-1000**	100.00	----

97%; sym-Diphenylurea, Carbanilide, $C_{13}H_{12}N_2O$; $C_6H_5NHCONHC_6H_5$
F.W. 212.25; [102-07-8]; **Melting Point:** 243° to 252°C
Boiling Point: 262°C (760mm Hg)

2,2'-Dipyridyl

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC11750-5000**	652.00	----

Indicator; 99+%; α;,α;'-Dipyridyl, 2,2'-Bipyridine, $C_{10}H_8N_2$
F.W. 156.19 ; [366-18-7]; **Melting Point:** 69.0° to 72.0°C
Flash Point: 121°C; **Boiling Point:** 272.0° to 273.0°C; **UN** 2811

4,4'-Dipyridyl

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC27620-1000**	273.20	----

98%; gamma,gamma'-Dipyridyl, $C_{10}H_8N_2$; (C5H4N)-(C5H4N)
F.W. 156.19; [553-26-4]; **Melting Point:** 110.0 to 114.0°C
Boiling Point: 305.0°C (760.0 mmHg)

Di-tert-butyl azodicarboxylate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC36692-1000**	507.70	----

C-X Bond Formation (Halogen), Radical initiators; 97%; $C_{10}H_{18}N_2O_4$
(CH3)3CO2NNCO2C(CH3)3; **F.W.** 230.26; [870-50-8]
Melting Point: 90.0 to 92.0°C

1,3-Di-tert-butylbenzimidazolium chloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43508-0010**	180.00	----

96%; $C_{15}H_{23}ClN_2$; **F.W.** 266.81; [946607-10-9]
Melting Point: 204°C

3,5-Di-tert-butylbenzoic acid

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43822-0050**	128.90	----

99%; $C_{15}H_{22}O_2$; **F.W.** 234.34; [16225-26-6]
Melting Point: 170° to 173°C

Di-tert-Butylchlorosilane

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC43290-0250**	300.40	----

Reduction reagent; 95%; $C_8H_{19}ClSi$; **F.W.** 178.78; [56310-18-0]
Flash Point: 39°C; **Boiling Point:** 82.0°C to 84.0°C (45.0 mmHg)
Density: 0.8840g/mL; **UN** 2986

Di-tert-butyl dicarbonate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC18977-1000**	118.20	----

97%; Di-tert-butyl pyrocarbonate, $C_{10}H_{18}O_5$; $O[CO_2C(CH_3)_3]_2$; **F.W.** 218.25
[24424-99-5]; **Melting Point:** 22.0°C to 24.0°C; **Flash Point:** 37°C
Boiling Point: 70.0°C to 72.0°C; **Density:** 1.0200g/mL; **n:** 1.4075 to 1.4095
UN 2930

Di-tert-butyl hydrazodiformate

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC44042-0100**	107.70	----

97%; tert-Butyl hydrazodiformate, $C_{10}H_{20}N_2O_4$; **F.W.** 232.28; [16466-61-8]
Melting Point: 123.0°C to 125.0°C;

DL-1,4-Dithiothreitol — For molecular biology

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC32719-0100**	238.00	----

99+%; threo-1,4-Dimercapto-2,3-butanediol, DTT, Cleland's reagent, $C_4H_{10}O_2S_2$; $HSCH_2CH(OH)CH(OH)CH_2SH$; **F.W.** 154.24; [578517]
Melting Point: 38° to 43°C/100.4° to 109.4°F; **Flash Point:** >110°C
Boiling Point: 125.0° to 130.0°C (2.0mmHg); **UN** 3335

Dodecane — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O2666-500**	196.10	6/853.32

$C_{12}H_{26}$; $CH_3(CH_2)_{10}CH_3$; **F.W.** 170.34; [112-40-3]
Melting Point: –9.6°C; **Flash Point:** 71°C/159.8°F
Boiling Point: 215° to 217°C; **Density:** 5.9 (Air = 1.0)

ChemAlert® Storage Code GRAY

Dodecane — Pure

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC11759-1000**	66.20	----
500mL	Glass Bottle	**AC11759-5000**	124.80	----

99%; $C_{12}H_{26}$; $CH_3(CH_2)_{10}CH_3$; **F.W.** 170.34; [112-40-3]; **Melting Point:** – 12.0°C
Flash Point: 71°C; **Boiling Point:** 215.0°C to 217.0°C; **Density:** 0.7530g/mL
n: 1.4210 to 1.4230; **UN** 2810;

1-Dodecanol

Quantity	Packaging	Cat.No.	Each	Case of
5mL	Glass Bottle	**AC15545-0050**	21.30	----
500mL	Glass Bottle	**AC15545-5000**	27.80	----
1L	Glass Bottle	**AC15545-0010**	48.30	----

98%; Dodecyl alcohol, Lauryl alcohol, $C_{12}H_{26}O$; $CH_3(CH_2)_{11}OH$; **F.W.** 186.34 [112-53-8]; **Melting Point:** 22.0°C to 27.0°C; **Flash Point:** 119°C
Boiling Point: 258.0°C to 265.0°C; **Density:** 0.8350g/mL; **UN** 3077

Dodecyl sulfate sodium salt — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC22614-0025**	176.00	----

85%; Dodecyl Sodium Sulfate, SDS, Sodium lauryl sulfate, $C_{12}H_{25}NaO_4S$ $CH_3(CH_2)_{11}OSO_3Na$; **F.W.** 288.38; [151-21-3, 7757-82-6, 7647-14-5]
Melting Point: 206.0°C; **Flash Point:** >100°C

Epichlorohydrin

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC11778-0100**	297.70	----

99%; 1-Chloro-2,3-epoxypropane, C_3H_5ClO; **F.W.** 92.52; [106-89-8]
Melting Point: – 57.0°C; **Flash Point:** 28°C; **Boiling Point:** 115.0°C to 117.0°C; **Density:** 1.1800g/mL; **n:** 1.4365 to 1.4385

Ethanolamine — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**M251-1**	162.50	6/714.00
4L	Glass Bottle	**M251-4**	350.50	4/1024.00

Monoethanolamine, 2-Aminoethanol, 2-Hydroxyethylamine, C_2H_7NO; $HOCH_2CH_2NH_2$; **F.W.** 61.08; [141-43-5]; **Melting Point:** 10°C
Flash Point: 92°C/198°F; **Boiling Point:** 170°C
Density: 2.1 (Air = 1.0); **DOT Class 8**: Corrosive; **UN** 2491

ChemAlert® Storage Code WHITE

[Ethylenebis-(oxyethylenenitrilo)]-Tetraacetic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O2783-100**	377.00	6/1644.00

≥98 %; EGTA, Ethyleneglycol Bis(aminoethylether) Tetraacetic Acid, $C_{14}H_{24}N_2O_{10}$ $(HOOCCH_2)_2N(CH_2CH_2O)_2CH_2CH_2N(CH_2COOH)_2$
F.W. 380.35; [67-42-5]; **Melting Point:** 240° to 245°C

ChemAlert® Storage Code GRAY

Ethylenediamine Anhydrous — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E479-500**	115.80	6/481.50

98 to 101 %; 1,2-Diaminoethane, 1,2-Ethanediamine, $C_2H_8N_2$ $NH_2CH_2CH_2NH_2$; **F.W.** 60.1; [107-15-3]
Melting Point: 8.5°C; **Flash Point:** 35°
Boiling Point: 118°C; **Density:** 0.9g/mL
DOT Class 8: Corrosive; **UN** 1604

ChemAlert® Storage Code RED

Ethylenediamine Tetraacetic Acid, Disodium Salt Dihydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S312-500**	352.00	6/1578.00
2.5kg	Poly Bottle	**S312-212**	1148.83	4/3226.29
12kg	Poly Pail	**S312-12**	1770.79	----

White Crystalline Powder; EDTA Disodium Salt, Sodium (Di) Ethylenediamine Tetracetate Dihydrate, $C_{10}H_{14}N_2Na_2O_{82}H_2O$
F.W. 372.24; [6381-92-6]; **Melting Point:** 252°C

ChemAlert® Storage Code GRAY

Ethylenediamine Tetraacetic Acid, Disodium Salt Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S311-100**	94.70	6/425.50
500g	Poly Bottle	**S311-500**	290.50	6/1256.00
3kg	Poly Bottle	**S311-3**	1020.00	4/2980.00
10kg	Poly Pail	**S311-10**	2040.00	----
50kg	Fiber Drum	**S311-50KG**	2850.00	----

Crystalline; 99.0 to 101.0 %; Sodium (Di) Ethylenediamine Tetraacetate Dihydrate, EDTA Disodium Salt, (Ethylenedinitrilo) tetraacetic Acid Disodium Salt Dihydrate, $C_{10}H_{14}N_2Na_2O_{82}H_2O$ $(HO_2CCH_2)_2NCH_2CH_2N(CH_2CO_2Na)_2{\cdot}2H_2O$
F.W. 372.24; [6381-92-6]
Melting Point: 252°C

ChemAlert® Storage Code GRAY

Ethylenediamine Tetraacetic Acid, Disodium Salt Dihydrate — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O2793-500**	128.20	6/554.00

Disodium Salt Dihydrate; ≥95 %; EDTA Disodium Salt, $C_{10}H_{14}N_2Na_2O_{82}H_2O$; $(HO_2CCH_2)_2NCH_2CH_2N(CH_2CO_2Na)_2{\cdot}2H_2O$
.W. 372.24; [6381-92-6]; **Melting Point:** 252°C

ChemAlert® Storage Code GRAY

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Ethylenediamine Tetraacetic Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**E478-500**	337.00	6/1482.00
1kg	Glass Bottle	**E478-1**	537.65	4/2331.59

99.4 to 100.6 %; EDTA, (Ethylenedinitrilo)tetraacetic Acid, $C_{10}H_{16}N_2O_8$; $(HOOCCH_2)_2NCH_2CH_2N(CH_2COOH)_2$; **F.W.** 292.25 [60-00-4]; **Melting Point:** 220°C; **Density:** 0.86g/mL

ChemAlert® Storage Code GRAY

Ethylene Glycol Monobutyl Ether — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**E179-4**	256.46	4/733.39

2-Butoxyethanol, Butyl Cellosolve*, $C_6H_{14}O_2$
$HOCH_2CH_2O(CH_2)_3CH_3$; **F.W.** 118.18; [111-76-2]
Melting Point: –70°C; **Boiling Point:** 171°C; **Density:** 0.9g/mL
DOT Class 6.1: Poison; **UN** 2810

ChemAlert® Storage Code BLUE

Ethylene Glycol Monomethyl Ether — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E182-500**	60.15	6/251.13
4L	Glass Bottle	**E182-4**	390.00	4/1127.00

2-Methoxyethanol, Methyl Cellosolve*, $C_3H_8O_2$
$HOCH_2CH_2OCH_3$; **F.W.** 76.09; [109-86-4]
Melting Point: –85°C; **Flash Point:** 40°
Boiling Point: 124°C; **Density:** 0.96g/mL
DOT Class 3: Flammable Liquid; **UN** 1188; Suitable for use in amino acid analysis.

ChemAlert® Storage Code RED

2-Ethyl-2-oxazoline

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC15998-0025**	542.70	----

99+%; C_5H_9NO; **F.W.** 99.13; [10431-98-8]; **Melting Point:** – 62.0°C
Flash Point: 29°C; **Boiling Point:** 128.4°C; **Density:** 0.9800g/mL
n: 1.4360 to 1.4380

Fluoro-N,N,N',N'-bis(tetramethylene)formamidinium hexafluorophosphate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC44036-0250**	415.00	----

Coupling reagent; 97%; Fluoro-dipyrrolidinocarbenium hexafluorophosphate, BTFFH, $C_9H_{16}FN_2{\cdot}F_6P$; **F.W.** 316.2; [164298-25-3]
Melting Point: 152° to 154°C

(+)-5-Fluoro-2';-deoxyuridine

Quantity	Packaging	Cat.No.	Each	Case of
2.5g	Glass Bottle	**AC22760-0025**	1906.10	----

99+%; 2';-Deoxy-5-fluorouridine, Floxuridine, FUDR, $C_9H_{11}FN_2O_5$
F.W. 246.19; [50-91-9]; **Melting Point:** 148.0°C to 153.0°C

6-Fluoro-1-indanone

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44233-0050**	391.50	----

97%; C_9H_7FO; **F.W.** 150.15; [1481-32-9]
Melting Point: 58° to 61°C

D-Fructose — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**L96-500**	152.10	6/638.00
2.5kg	Poly Bottle	**L96-212**	441.10	4/1237.09

Crystalline; Levulose, Fruit Sugar, β-D-Fructose, $C_6H_{12}O_6$
F.W. 180.16; [57-48-7]; **Melting Point:** 103° to 105°C (dec)

ChemAlert® Storage Code GRAY

D-Fructose — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**L95-500**	153.50	6/640.00

Crystalline; Levulose, Fruit Sugar, β-D-Fructose, $C_6H_{12}O_6$
F.W. 180.16; [57-48-7]; **Melting Point:** 103° to 105°C (dec)

ChemAlert® Storage Code GRAY

D(-)-Fructose

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC16135-0100**	786.50	----

99%; $C_6H_{12}O_6$; **F.W.** 180.16; [57-48-7]
Melting Point: 103.0°C to 105.0°C

Furfural — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**F94-500**	108.87	6/470.17

Ant Oil, Pyromucic Aldehyde, 2-Furaldehyde, 2-Furancarboxaldehyde, Furol, $C_5H_4O_2$; OCH:CHCH:CCHO
F.W. 96.09; [98-01-1]; **Melting Point:** –36°C
Flash Point: 60°C/140°F; **Boiling Point:** 162°C
Density: 1.16g/mL; **DOT Class 6.1**: Poison; **UN** 1199

ChemAlert® Storage Code RED

D(+)-Glucose — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC41095-5000**	33.80	202.80
1kg	Plastic Bottle	**AC41095-0010**	62.30	----

Dextrose, $C_6H_{12}O_6$; **F.W.** 180.16; [50-99-7]
Melting Point: 146.0°C

D(+)-Glucose 6-phosphate sodium salt

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44698-0010**	55.70	----

98%; D(+)-Glucopyranose 6-phosphate sodium salt, Robison ester, $C_6H_{12}NaO_9P$; **F.W.** 282.12; [54010-71-8]; **Melting Point:** 204°C;

L-(+)-Glutamic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A125-100**	72.10	6/325.00

Powder; ≥99 %; alpha-Aminoglutaric Acid, Glutaminol, Glutaton, $C_5H_9NO_4$; $HOOCCHNH_2CH_2CH_2COOH$
F.W. 147.13; [56-86-0]; **Melting Point:** 205°C
Density: 1.54g/mL

ChemAlert® Storage Code GRAY

Glycerol — Spectranalyzed*

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**G153-1**	565.72	6/2344.84
4L	Glass Bottle	**G153-4**	1726.00	4/4810.00

Also meets ACS specifications; ≥99.5 %; Glycerin, 1,2,3-Propanetriol, $C_3H_8O_3$; $HOCH_2CH(OH)CH_2OH$
F.W. 92.09; [56-81-5]; **Melting Point:** 20°C
Flash Point: 160°C/320°F; **Boiling Point:** 290°C
Density: 3.17 (Water = 1.0); For use in the ultraviolet range.

ChemAlert® Storage Code GRAY

Glycerol — USP/FCC/EP/BP

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**G30-4**	1008.00	4/2750.00
20L	Poly Pail	**G30-20**	2210.00	----
200L	Poly Drum	**G30-200**	7440.00	----

Clear, Colorless; Glycerin, 1,2,3-Propanetriol, $C_3H_8O_3$
$CH_2OHCHOHCH_2OH$; **F.W.** 92.1; [56-81-5]; **Melting Point:** 20°C
Flash Point: 160°C/320°F; **Boiling Point:** 290°C
Density: 3.17 (Water = 1.0)

ChemAlert® Storage Code GRAY

Glycerol — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**G31-500**	199.30	6/831.00
1L	Glass Bottle	**G31-1**	300.90	6/1250.22
4L	Glass Bottle	**G31-4**	897.50	4/2510.00
20L	Poly Pail	**G31-20**	2041.39	----
200L	Poly Drum	**G31-200**	13890.00	----

Clear, Colorless; Glycerin, 1,2,3-Propanetriol, $C_3H_8O_3$
$HOCH_2CH(OH)CH_2OH$; **F.W.** 92.1; [56-81-5]; **Melting Point:** 20°C
Flash Point: 160°C/320°F; **Boiling Point:** 290°C
Density: 3.17 (Water = 1.0)

ChemAlert® Storage Code GRAY

Glycerol — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**G33-500**	145.90	6/681.50
1L	Glass Bottle	**G33-1**	248.50	6/1041.00
4L	Glass Bottle	**G334**	751.50	4/2390.00
20L	Poly Pail	**G33-20**	2150.00	----
200L	Poly Drum	**G33-200**	9770.00	----

≥99.5 %; Glycerin, 1,2,3-Propanetriol, $C_3H_8O_3$
$HOCH_2CH(OH)CH_2OH$; **F.W.** 92.09; [56-81-5]
Melting Point: 18°C/64.4°C; **Flash Point:** 160°C/320°F
Boiling Point: 290°C/554°F; **Density:** 3.17 (Water = 1.0)

ChemAlert® Storage Code GRAY

Glycerol — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC15892-0010**	46.75	155.20
2.5L	Glass Bottle	**AC15892-0025**	88.60	354.40
25L	Plastic Jerry Can	**AC15892-0250**	663.00	----

99+%; Glycerine, $C_3H_8O_3$; $HOCH_2CH(OH)CH_2OH$
F.W. 92.09; [56-81-5]; **Melting Point:** 18.0°C; **Flash Point:** 160°C
Boiling Point: 290.0°C; **Density:** 1.2610g/mL; **n:** 1.4716

Glycerol — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC33203-0100**	292.40	----

99+%; Glycerine, $C_3H_8O_3$; $HOCH_2CH(OH)CH_2OH$
F.W. 92.09; [56-81-5] ; **Melting Point:** 18.0°C
Flash Point: 160°C; **Boiling Point:** 290.0°C
Density: 1.2610g/mL; **n:** 1.4716

Glycerol — ACS reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle, EcoSafPak	**AC41098-5000**	64.90	389.40
10L	Plastic Jerry Can	**AC41098-0100**	647.50	----

99.6%; Glycerine, $C_3H_8O_3$; $HOCH_2CH(OH)CH_2OH$; **F.W.** 92.09; [56-81-5]
Melting Point: 18.0°C; **Flash Point:** 160°C; **Boiling Point:** 290.0°C
Density: 1.2610g/mL; **n:** 1.4716

Glycidol

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC12005-0025**	610.80	----

2,3-Epoxy-1-propanol, $C_3H_6O_2$; **F.W.** 74.08; [556-52-5]
Melting Point: –54.0°C; **Flash Point:** 71; **Boiling Point:** 160.0 to 161.0°C (760.0 mmHg); **Density:** 1.11g/mL; **n:** 1.4300 to 1.4340

Guanidine Hydrochloride — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**O2983-500**	389.50	6/1698.00

≥98 %; $CH_5N_3 \cdot HCl$; $NH_2C(:NH)NH_2 \cdot HCl$; **F.W.** 95.53; [50-01-1]
Melting Point: 179° to 186°C; **Density:** 1.34g/mL

ChemAlert® Storage Code BLUE

Guanidine hydrochloride

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
250g	Plastic Bottle	**AC12023-2500**	27.70	----
1kg	Plastic Bottle	**AC12023-0010**	65.00	----
2.5kg	Plastic Bottle	**AC12023-0025**	151.30	----
10kg	Plastic Bottle	**AC12023-0100**	510.50	----
25kg	Plastic Bottle	**AC12023-0251**	988.70	----

98%; $CH_5N_3 \cdot HCl$; $H_2NC(=NH)NH_2 \cdot HCl$; **F.W.** 95.53; [50-01-1]
Melting Point: 179.0°C to 186.0°C; **Density:** 1.3400g/mL

L(+)-Gulonic acid γ-lactone

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC25557-1000**	522.70	----

95+%; $C_6H_{10}O_6$; **F.W.** 178.14; [1128-23-0]
Melting Point: 183.0°C to 185.0°C

Heparin Sodium — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
100,000 Units	Glass Bottle	**H19**	341.00	6/1491.00

Blood Anticoagulant; [9041-08-1]; The actual potency of this material will be listed on each label in USP units. 140,000 units is approximately 1g.

ChemAlert® Storage Code GRAY

Fisher Scientific

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Prices subject to change.

Heparin sodium

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC41121-0010**	120.20	----

[2608411]

n-Heptadecane

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC15624-5000**	267.00	----

99%; $C_{17}H_{36}$; $CH_3(CH_2)_{15}CH_3$; **F.W.** 240.47; [629-78-7]
Melting Point: 22.0°C to 24.0°C; **Flash Point:** 148°C
Boiling Point: 302.0°C; **Density:** 0.7780g/mL; **n:** 1.4350 to 1.4370

2,2,4,4,6,8,8-Heptamethylnonane

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC15625-0010**	375.50	----

98%; HMN, $C_{16}H_{34}$; $(CH_3)_3CCH_2CH(CH_3)CH_2C(CH_3)_2CH_2C(CH_3)_3$
F.W. 226.44; [4390-04-9]; **Flash Point:** 95°C; **Boiling Point:** 240.0°C
Density: 0.7900g/mL; **n:** 1.4380 to 1.4400

1-Heptanesulfonic acid sodium salt monohydrate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC41127-0250**	132.10	----
100g	Glass Bottle	**AC41127-1000**	374.00	----
500g	Glass Bottle	**AC41127-5000**	1425.70	----

For ion pair chromatography; $C_7H_{15}NaO_3S{\cdot}H_2O$; $CH_3(CH_2)_6SO_3Na{\cdot}H_2O$
F.W. 220.27; [207300-90-1]; **Melting Point:** > 300.0°C

1-Heptanesulfonic Acid Sodium Salt — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**O3013-25**	216.50	6/938.00

White Powder; ≥98 %; $C_7H_{15}O_3S{\cdot}Na$; $CH_3(CH_2)_6SO_3Na$
F.W. 202.24; [22767-50-6]; **Melting Point:** >300°C

ChemAlert® Storage Code GRAY

1-Heptanesulfonic acid, sodium salt

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC20613-5000**	892.80	----

98%; $C_7H_{15}NaO_3S$; $CH_3(CH_2)_6SO_3Na$; **F.W.** 202.25; [22767-50-6]
Melting Point: > 300.0°C

Hexadecane — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O3035-500**	261.50	6/1127.00

$C_{16}H_{34}$; $CH_3(CH_2)_{14}CH_3$; **F.W.** 226.45; [544-76-3]
Melting Point: 18°C; **Flash Point:** 135°C/275°F
Boiling Point: 287°C; **Density:** 7.8

ChemAlert® Storage Code GRAY

n-Hexadecane — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2mL	Glass Bottle	**AC12046-0020**	20.75	----
100mL	Glass Bottle	**AC12046-1000**	63.10	----
500mL	Glass Bottle	**AC12046-5000**	133.10	----

99%; $C_{16}H_{34}$; $CH_3(CH_2)_{14}CH_3$; **F.W.** 226.44; [544-76-3]
Melting Point: 18.0°C; **Flash Point:** 135°C; **Boiling Point:** 287.0°C
Density: 0.7730g/mL; **n:** 1.4330 to 1.4350

Hexadecyltrimethylammonium Bromide — Technical

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O3042-500**	278.00	6/1210.00

White Powder; CETAB, Cetyltrimethylammonium Bromide, Cetrimonium Bromide, $C_{19}H_{42}BrN$; $CH_3(CH_2)_{15}N(CH_3)_3Br$; **F.W.** 364.46 [57-09-0]; **Melting Point:** 250°C (dec); **Flash Point:** 244°C/471°F
DOT Class 8: Corrosive; **UN** 3261

ChemAlert® Storage Code BLUE

1,1,1,5,5,5-Hexafluoroacetylacetone

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC21853-1000**	442.60	----

99%; 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione, $C_5H_2F_6O_2$; CF3COCH2COCF3
F.W. 208.06; [1522-22-1]; **Flash Point:** 32°C; **Boiling Point:** 70.0 to 71.0°C (760.0 mmHg); **Density:** 1.47g/mL; **n:** 1.3320 to 1.3340

1,1,1,3,3,3-Hexafluoro-2-propanol — Pure

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC14754-0250**	78.50	----
100g	Glass Bottle	**AC14754-1000**	196.20	----

99.5+%; HFIP, 1,1,1,3,3,3-Hexafluoroisopropanol, $C_3H_2F_6O$; $(CF_3)_2CHOH$
F.W. 168.04; [920-66-1]; **Melting Point:** – 4.0°C; **Flash Point:** >100°C
Boiling Point: 59.0°C; **Density:** 1.5960g/mL; **n:** 1.2740 to 1.2770; **UN** 3265

1,1,1,3,3,3-Hexamethyldisilazane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC12058-0025**	297.70	----

Clear liquid; 98%; HMDS, $C_6H_{19}NSi_2$; $(CH_3)_3SiNHSi(CH_3)_3$; **F.W.** 161.39 [999-97-3]; **Melting Point:** –78°C; **Flash Point:** 20°C; **Boiling Point:** 125°C
Density: 0.76g/cm^3; **n:** 1.406 to 1.409

Hexamethyldisiloxane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC19479-0025**	293.50	----

Silylation reagent; 98+%; HMDSO, $C_6H_{18}OSi_2$; $(CH_3)_3SiOSi(CH_3)_3$
F.W. 162.38; [107-46-0]; **Melting Point:** – 59.0°C; **Flash Point:** –6°C
Boiling Point: 101.0°C; **Density:** 0.7600g/mL; **n:** 1.3765 to 1.3785

Hexamethylenetetramine — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**H288-500**	187.70	6/788.00

≥99.0 %; Methenamine, Formin, HMT (HMTA), Hexamine, Aminoform, Hexamethylenamine, $C_6H_{12}N_4$
F.W. 140.19; [100-97-0] **Melting Point:** 263°C (sublimes)
Density: 1.33g/mL
DOT Class 4.1: Flammable Solid; **UN** 1328

ChemAlert® Storage Code RED

1,6-Hexanediamine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC12064-1000**	21.05	----
500g	Plastic Bottle	**AC12064-5000**	54.50	----
1kg	Plastic Bottle	**AC12064-0010**	100.40	----

99.5+%; 1,6-Diaminohexane, Hexamethylenediamine, $C_6H_{16}N_2$
$H_2N(CH_2)_6NH_2$; **F.W.** 116.21; [124-09-4]; **Melting Point:** 38.0°C to 41.0°C
Flash Point: 81°C; **Boiling Point:** 204.0°C to 205.0°C

1-Hexanesulfonic Acid Sodium Salt — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**O3072-25**	249.50	6/1056.00

≥98 %; Sodium Hexanesulfonate, $CH_3(CH_2)_5SO_3Na$
$CH_3(CH_2)_5SO_3Na$; **F.W.** 188.22; [2832-45-3]
Melting Point: >300°C

ChemAlert® Storage Code GRAY

1-Hexyne

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC32990-5000**	440.10	----

98%; C_6H_{10}; CH3(CH2)3C~2CH; **F.W.** 82.13; [693-02-7]
Melting Point: –132.0°C; **Flash Point:** –21
Boiling Point: 71.0 to 72.0°C (760.0 mmHg)
Density: 0.71g/mL; **n:** 1.3974

5-Hexyn-1-ol

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC29658-0250**	255.00	----

97%; $C_6H_{10}O$; HC~2C(CH2)4OH; **F.W.** 98.14; [928-90-5]
Flash Point: 69; **Boiling Point:** 73.0 to 75.0°C (15.0 mmHg)
Density: 0.89g/mL; **n:** 1.4490 to 1.4510

Hydrazine Sulfate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**H320-500**	240.50	6/1047.00

Powder; ≥99.0 %; $HH_4N_2{\cdot}H_2SOH_4$; $NH_2NH_2{\cdot}H_2SO_4$
F.W. 130.12; [10034-93-2]; **Melting Point:** 253.9°C; **Density:** 1.4g/mL
DOT Class 8: Corrosive; **UN** 3260

ChemAlert® Storage Code WHITE

Tetrachloroauric(III) acid trihydrate — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC41107-0010**	94.30	565.80

Chloroauric acid trihydrate, Gold trichloride acid trihydrate, $HAuCl_4{\cdot}3H_2O$
$HAuCl_4{\cdot}3H_2O$; **F.W.** 393.83; [16961-25-4]; **UN** 3260

Hydroquinone — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**H329-500**	109.87	6/476.69

Crystalline; 1,4-Benzenediol, Hydroquinol, p-Dihydroxybenzene,
$C_6H_6O_2$; 1,4-HOC_6H_4OH; **F.W.** 110.11; [123-31-9]
Melting Point: 170° to 174°C; **Boiling Point:** 285° to 287°C
Density: 1.32g/mL; **DOT Class 6.1**: Poison; **UN** 2662

ChemAlert® Storage Code BLUE

4-Hydroxybenzylamine hydrate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43293-0050**	115.30	----
25g	Glass Bottle	**AC43293-0250**	361.50	----

97%; 4-Aminomethylphenol hydrate, $C_7H_9NO{\cdot}xH_2O$; **F.W.** 123.15
[696-60-6]; **Melting Point:** 100° to 104°C

1-Hydroxy-1-cyclopropanecarboxylic acid

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC30143-0050**	505.00	----

98%; $C_4H_6O_3$; **F.W.** 102.09; [17994-25-1]
Melting Point: 108.0 to 110.0°C

N-Hydroxy-2,2-dimethylpropanimidamide

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43966-0010**	120.90	----
5g	Glass Bottle	**AC43966-0050**	374.10	----

95%; Pivalamidoxime, tert-Butylamidoxime, Trimethylacetamidoxime,
$C_5H_{12}N_2O$; **F.W.** 116.16; [42956-75-2]; **Melting Point:** 108.6° to 113.7°C

Hydroxylamine Hydrochloride — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Poly Bottle	**H330-100**	116.80	6/514.50
500g	Poly Bottle	**H330-500**	369.02	6/1608.31
1kg	Poly Bottle	**H330-1**	567.50	6/2440.00

Crystalline; ≥96 %; Oxammonium Hydrochloride, $H_3NO{\cdot}HCl$
$NH_2OH{\cdot}HCl$; **F.W.** 69.49; [5470-11-1]
Melting Point: 155° to 158°C/311° to 316.4°F
Boiling Point: 305.6°C; **Density:** 1.67g/mL
DOT Class 8: Corrosive; **UN** 2923

ChemAlert® Storage Code WHITE

Hydroxylamine Sulfate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**H331-500**	215.50	6/886.00

Crystalline; ≥99 %; Oxammonium Sulfate, $H_8N_2O_6S$
$(NH_2OH)_2{\cdot}H_2SO_4$; **F.W.** 164.14; [10039-54-0]; **Melting Point:** 170°C
Density: 1.7g/mL; **DOT Class 8**: Corrosive; **UN** 2865

ChemAlert® Storage Code WHITE

5-(Hydroxymethyl)furfural

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC12146-0250**	482.70	----

98%; $C_6H_6O_3$; **F.W.** 126.11; [67-47-0]; **Melting Point:** 30.0 to 34.0°C
Flash Point: 79; **Boiling Point:** 114.0 to 116.0°C (1.0 mmHg); **n:** 1.5627

3-Hydroxy-2-methylpyridine

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC34522-0250**	406.50	----

99%; C_6H_7NO; **F.W.** 109.13; [1121-25-1]
Melting Point: 167° to 171°C

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2-Hydroxy-5-nitrobenzaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41618-1000**	400.80	----

98+%; $C_7H_5NO_4$; **F.W.** 167.12; [97-51-8]
Melting Point: 125° to 129°C

Hydroxypropyl-β-cyclodextrin

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC29756-0250**	117.30	----
100g	Glass Bottle	**AC29756-1000**	338.00	----

Chelation/Complexation reagent; 97%
[128446-35-5]; **Melting Point:** 278°C

8-Hydroxyquinoline — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O261-500**	569.00	6/2460.00

Oxine, Oxyquinoline, 8-Quinolinol, Oxychinolin, Hydroxybenzopyridine, C_9H_7NO; $HOC_6H_3N{:}CHCH{:}CH$; **F.W.** 145.16 [148-24-3]; **Melting Point:** 72° to 74°C/161.6° to 165.2°F
Boiling Point: 267°C at 752 mmHg

ChemAlert® Storage Code GRAY

Imidazole — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**O3196-500**	325.50	6/1424.00

≥99 %; Glyoxaline, 1,3-Diazole, $C_3H_4N_2$; $NHCH{:}NCH{:}CH$
F.W. 68.08; [288-32-4]; **Melting Point:** Melting Point Range: 86° to 90°C / 186.8° to 194°F; **Flash Point:** Flash point: 145°C / 293°F
Boiling Point: 255° to 256°C; **DOT Class 8**: Corrosive; **UN** 3263

ChemAlert® Storage Code WHITE

Imidazole

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC12202-0050**	11.60	----
100g	Plastic Bottle	**AC12202-1000**	27.05	----
500g	Plastic Bottle	**AC12202-5000**	94.60	----
2kg	Plastic Bottle	**AC12202-0020**	300.00	----
10kg	Plastic Bucket	**AC12202-0100**	1077.70	----

99%; $C_3H_4N_2$; **F.W.** 68.08; [288-32-4]; **Melting Point:** 86.0°C to 90.0°C
Flash Point: 145°C; **Boiling Point:** 255.0°C to 256.0°C

1H-Indazole-6-carboxaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43104-0010**	56.90	----
5g	Glass Bottle	**AC43104-0050**	233.60	----

97%; $C_8H_6N_2O$; **F.W.** 146.15; [669050-69-5]
Melting Point: 180.6°C to 180.8°C

Iodobenzene diacetate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC17656-5000**	548.00	----

Oxidation reagent; 98%; (Diacetoxyiodo)benzene, Iodosobenzene diacetate, PIA, $C_{10}H_{11}IO_4$; $C_6H_5I(O_2CCH_3)_2$
F.W. 322.09; [3240-34-4]
Melting Point: 161° to 165°C; **UN** 2811

2-Iodobenzoic acid

Quantity	Packaging	Cat.No.	Each	Case of
500g	Plastic Bottle	**AC12234-5000**	235.20	----

98%; $C_7H_5IO_2$; $IC_6H_4CO_2H$; **F.W.** 248.01; [88-67-5]
Melting Point: 161.0°C to 163.0°C

Iodomethane

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC12237-0050**	25.60	----
100g	Glass Bottle	**AC12237-1000**	44.85	----
500g	Glass Bottle	**AC12237-5000**	158.20	----
2.5kg	Glass Bottle	**AC12237-0025**	376.56	----

Alkylation reagent; 99%; Methyl iodide, CH_3I; CH_3I
F.W. 141.94; [74-88-4, 7440-50-8]; **Melting Point:** – 66.0°C
Boiling Point: 42.5°C
Density: 2.2800g/mL; **n:** 1.5290 to 1.5310

5-Iodo-2-methoxypyridine

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43893-0010**	175.50	----
5g	Glass Bottle	**AC43893-0050**	623.00	----

97%; 2-Methoxy-5-iodopyridine, C_6H_6INO
F.W. 235.03; [13472-61-2]
Boiling Point: 106°° to 108°C (at 30 Torr)

Iodonitrotetrazolium chloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC12240-0010**	100.30	----
5g	Glass Bottle	**AC12240-0050**	371.00	----
25g	Glass Bottle	**AC12240-0250**	1266.00	----

98%; $C_{19}H_{13}ClIN_5O_2$; **F.W.** 505.7; [146-68-9]
Melting Point: 231°C

4-iodo-2-pyridone

Quantity	Packaging	Cat.No.	Each	Case of
250mg	Glass Bottle	**MO07919CB**	140.00	----
1g	Glass Bottle	**MO07919DA**	350.50	----

97+%; C_5H_4INO; **F.W.** 220.99; [858839-90-4]
Melting Point: 186.0 to 188.0°C

Isoamyl Alcohol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A393-500**	152.10	6/628.50
4L	Glass Bottle	**A393-4**	627.00	4/1808.00

Clear, colorless; Isopentyl Alcohol, 3-Methyl-1-butanol, Isobutyl Carbinol, $C_5H_{12}O$; $(CH_3)_2CHCH_2CH_2OH$
F.W. 88.15; [123-51-3]; **Melting Point:** –117°C
Flash Point: 43°C/109.4°F; **Boiling Point:** 130°C
Density: 3.04 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1105

SOLVENT

ChemAlert® Storage Code RED

Isobutyl Alcohol — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A397-1**	117.50	6/488.00
4L	Glass Bottle	**A397-4**	306.00	4/881.50

≥99.0 %; 2-Methyl-1-Propanol, Isopropylcarbinol, 1-Hydroxymethylpropane, $C_4H_{10}O$; $(CH_3)_2CHCH_2OH$
F.W. 74.12; [78-83-1]; **Melting Point:** –108°C
Flash Point: 28°C/82.4°F; **Boiling Point:** 107° to 108°C
Density: 2.6 (Air = 1.0); **DOT Class 3**: Flammable Liquid
UN 1120; Suitable for fluorometric analysis.

SOLVENT — ChemAlert® Storage Code RED

1-Isobutyl-1H-pyrazole-4-boronic acid pinacol ester

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43973-0010**	167.80	----
5g	Glass Bottle	**AC43973-0050**	286.10	----

97%; 1-Isobutyl-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazole, $C_{13}H_{23}BN_2O_2$; **F.W.** 250.15; [827614-66-4]
Flash Point: 48°C; **Boiling Point:** 248.0° to 249.0°C
Density: 1.003g/mL; **UN** 1993

Isopropyl Ether — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**E141-500**	107.37	6/466.16
4L	Glass Bottle	**E141-4**	508.00	4/1359.00

2-Isopropoxypropane, Diisopropyl Ether, DIPE, $C_6H_{14}O$ $[(CH_3)_2CH]_2O$; **F.W.** 102.18; [108-20-3, 128-37-0]
Melting Point: –85°C; **Flash Point:** –27°
Boiling Point: 68°C; **Density:** 0.73g/mL; **DOT Class 3**: Flammable Liquid
UN 1159; BHT stabilized. Low in alcohol and water.

SOLVENT — ChemAlert® Storage Code RED

Isopropyl ether — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10L	Metal Drum	**AC15896-0100**	314.90	----

98+%; DIPE, 2-Isopropoxypropane, $C_6H_{14}O$; ó(CH3)2CH!2O
F.W. 102.18; [108-20-3, 128-37-0]; **Melting Point:** –85.5°C
Flash Point: –29; **Boiling Point:** 68.0°C (760.0 mmHg)
Density: 0.72g/mL; **n:** 1.3670 to 1.3690

Kaolin — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**K2-500**	135.50	4/389.50

Acid Washed Powder; Aluminum Silicate (Hydrated), Bolus Alba, $H_2Al_2Si_2O_8$-H_2O; **F.W.** 258.2; [1332-58-7]
Melting Point: 1,760°C **Density:** 1.8g/mL

ChemAlert® Storage Code GRAY

Kaolin — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC21174-0100**	449.50	----

Aluminium silicate (hydrated), [1332-58-7]; **Melting Point:** 1750.0°C

Kerosene

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC61103-0010**	36.05	----
4L	EcoSafPak	**AC61103-0040**	111.20	----

[8008-20-6]; **Flash Point:** 71.1°C/160°F; **Boiling Point:** 151.1° to 301°C/304° to 574°F; **Density:** 4.5 (Air = 1.0); **Class 3UN** 1223

Kerosene

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**K10-4**	218.50	4/688.00
200L	Steel Drum	**K10-200**	2980.00	----

[64742-14-9]; **Melting Point:** –17.8°C
Flash Point: 71.1°C/160°F; **Boiling Point:** 151.1° to 301°C/304° to 574°F; **Density:** 4.5 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 1223; Odorless

SOLVENT — ChemAlert® Storage Code GRAY

α;-Ketoglutaric acid sodium salt

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43935-0050**	64.50	----
25g	Glass Bottle	**AC43935-0250**	184.50	----

98%; Sodium hydrogen 2-oxoglutarate, 2-Oxoglutaric acid monosodium salt, 2-Oxopentanedioic acid monosodium salt, $C_5H_5NaO_5$ $HO_2CCH_2CH_2C(=O)CO_2Na$; **F.W.** 168.08; [22202-68-2]

Kjeltab* Catalysts

Quantity	Packaging	Cat.No.	Each	Case of
300 tablets	Glass Bottle	**K20I-300**	468.00	----

[7778-80-5, 21908-53-2]; **DOT Class 6.1**: Poison; **UN** 3288

ChemAlert® Storage Code BLUE

Kryptofix* 222

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC29195-0050**	608.40	----

98%; $C_{18}H_{36}N_2O_6$; **F.W.** 376.48; [23978-09-8]
Melting Point: 68° to 72°C; **UN** 2811

L-Lactic acid sodium salt — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC43922-0100**	77.60	----
50g	Glass Bottle	**AC43922-0500**	269.50	----

99%; $C_3H_5NaO_3$; $CH_3CH(OH)CO_2Na$; **F.W.** 112.06; [867-56-1]
Melting Point: 161.6°C to 165.0°C

α;-D-(+)-Lactose Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**L5-500**	98.00	6/441.50

Powder; Milk Sugar, $C_{12}H_{22}O_{11}$·H_2O; **F.W.** 360.32
[5989-81-1, 7732-18-5]; **Melting Point:** 219°C
Density: 1.53g/mL

ChemAlert® Storage Code GRAY

Lactulose

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC22593-1000**	688.00	----

99+%; 4-O-β-D-Galactopyranosyl-α;-D-fructose, $C_{12}H_{22}O_{11}$
F.W. 342.28; [4618-18-2]; **Melting Point:** 173.0°C to 178.0°C

Lawesson's Reagent

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC21089-5000**	423.90	----

For C-S bond formation; 99%; 2,4-Bis(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane-2,4-disulfide, $C_{14}H_{14}O_2P_2S_4$; **F.W.** 404.45; [19172-47-5]
Melting Point: 228.0°C to 231.0°C

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Prices subject to change.

Lecithin — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
250g	Poly Bottle	**O3376-250**	118.30	6/516.50

Phosphatidylcholine, [8002-43-5]; **Melting Point:** 236.11°C
Density: 1.03g/mL; **Recommended Storage:** Refrigerate

ChemAlert® Storage Code GRAY

L-α;-Lecithin

Quantity	Packaging	Cat.No.	Each	Case of
250g	Plastic Bottle	**AC41310-2500**	74.70	----

F.W. 750.00; [8002-43-5]

(+)-Limonene

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC17939-5000**	52.20	----

96%; D-Limonene, (+)-Dipentene, $C_{10}H_{16}$; **F.W.** 136.24
[5989-27-5, 10191-41-0]; **Melting Point:** – 74.0°C; **Flash Point:** 48°C
Boiling Point: 175.4°C to 176.0°C; **Density:** 0.8405g/mL; **n:** 1.4700 to 1.4740
UN 2052

Lithium acetate, anhydrous

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Plastic Bottle	**AC26864-0010**	126.30	----

99%; Acetic acid, lithium salt, $C_2H_3LiO_2$; **F.W.** 65.99; [546-89-4]
Melting Point: 280° to 285°C

Lithium tri-tert-butoxyaluminohydride

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle packed in tin can	**AC12516-5000**	1093.10	----

Reduction reagent; 93-98%; $C_{12}H_{28}AlLiO_3$; $LiAl[OC(CH_3)_3]_3H$; **F.W.** 254.27
[17476-04-9]; **Melting Point:** 319.0°C; **UN** 1409

2,6-Lutidine

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal Glass Bottle	**AC34767-1000**	28.70	----

99%; 2,6-Dimethylpyridine, C_7H_9N; **F.W.** 107.15; [108-48-5]
Melting Point: – 6.0°C; **Flash Point:** 33°C
Boiling Point: 143.0°C to 145.0°C **Density:** 0.9200g/mL;
n: 1.4966 to 1.4986; **UN** 1993

Malonic Acid — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A170-100**	314.50	6/1376.00

Crystalline; Methanedicarboxylic Acid, 1,3-Propanedioic Acid, $C_3H_4O_4$; $HOOCCH_2COOH$; **F.W.** 104.06; [141-82-2]
Melting Point: 133° to 137°C; **Density:** 1.63g/mL

ChemAlert® Storage Code GRAY

DL-Mandelic acid

Quantity	Packaging	Cat.No.	Each	Case of
5kg	Plastic Bucket	**AC12531-0050**	357.20	----

99+%; alpha-Hydroxyphenylacetic acid, $C_8H_8O_3$; C6H5CH(OH)CO2H
F.W. 152.15; [90-64-2]; **Melting Point:** 118.0 to 122.0°C

D-Mannitol — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**M124-500**	233.08	6/964.41
2.5kg	Poly Pail	**M124-212**	560.40	----

Powder; Mannite, Manna Sugar, $C_6H_{14}O_6$; **F.W.** 182.17; [69-65-8]
Melting Point: 165° to 170°C/329° to 338°F; **Boiling Point:** 295°C
Density: 1.52g/mL

D-Mannitol — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
60kg	Fiber Drum	**M120-60**	2060.00	----

Powder; Mannite, Manna Sugar, $C_6H_{14}O_6$; **F.W.** 182.17; [69-65-8]
Melting Point: 165° to 170°C/329° to 338°F; **Boiling Point:** 295°C
Density: 1.52g/mL

MBD

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC41354-0050**	541.50	----

98%; 7-(4-Methoxybenzylamino)-4-nitrobenzoxadiazole, $C_{14}H_{12}N_4O_4$
F.W. 300.26; [33984-50-8]; **Melting Point:** 176.0 to 180.0°C

2-Mercaptoethanol — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC12547-0025**	234.40	----

99%; 2-Hydroxy-1-ethanethiol, Thioglycol, C_2H_6OS; $HSCH_2CH_2OH$
F.W. 78.13; [60-24-2]; **Melting Point:** – 100.0°C
Flash Point: 73°C; **Boiling Point:** 157.0°C to 158.0°C
Density: 1.1100g/mL; **n:** 1.4990 to 1.5020

2-Mercaptoethanol — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Amber Glass/ Poison Pack	**O3446I-100**	105.90	----

2-Hydroxyethanethiol, β-Mercaptoethanol, Thioglycol, C_2H_6OS
$HSCH_2CH_2OH$; **F.W.** 78.13; [60-24-2]
DOT Class 6.1: Poison; **UN** 2966

ChemAlert® Storage Code BLUE

Methanesulfonamide

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC29611-1000**	335.40	----

98%; CH_5NO_2S; CH3SO2NH2; **F.W.** 95.12; [3144-09-0]
Melting Point: 88.0 to 92.0°C

Methanesulfonic acid

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC43297-0010**	123.10	----

98%; MSA, CH_4O_3S; CH_3SO_3H; **F.W.** 96.10; [75-75-2]
Melting Point: 19.0°C **Flash Point:** 189°C
Boiling Point: 167.0°C (10.0 mmHg)
Density: 1.4810g/mL; **n:** 1.4252 to 1.4315; **UN** 2922

Methanesulfonyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC12564-1000**	26.50	----
250mL	Glass Bottle	**AC12564-2500**	56.30	----
1L	Glass Bottle	**AC12564-0010**	131.20	----
2.5L	Glass Bottle	**AC12564-0025**	304.00	----

99.5%; Mesyl chloride, MsCl, CH_3ClO_2S; CH_3SO_2Cl
F.W. 114.55; [124-63-0] **Melting Point:** – 33.0°C
Flash Point: 110°C; **Boiling Point:** 161.0°C
Density: 1.4800g/mL; **n:** 1.4435 to 1.4455; **UN** 3246

DL-α;-Methoxyphenylacetic acid

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41387-1000**	1179.00	----

99%; $C_9H_{10}O_3$; **F.W.** 166.18; [7021-09-2]
Melting Point: 68.0°C to 72.0°C

Methyl Acetate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**M203-500**	172.83	6/715.28
4L	Glass Bottle	**M203-4**	713.67	4/2066.49

Acetic Acid Methyl Ester, $C_3H_6O_2$; CH_3COOCH_3
F.W. 74.08; [79-20-9]; **Melting Point:** –98°C
Flash Point: –26°; **Boiling Point:** 57.4°C
Density: 0.93g/mL; **DOT Class 3**: Flammable Liquid
UN 1231

SOLVENT — ChemAlert* Storage Code RED

(S)-α;-Methylaspartic acid

Quantity	Packaging	Cat.No.	Each	Case of
500mg	Glass Bottle	**AC29013-5000**	521.90	----

98%; (S)-(+)-2-Amino-2-methylbutanedioic acid, $C_5H_9NO_4$
$HOOCC(CH_3)_nH_2CH_2COOH$; **F.W.** 147.13; [3227-17-6]
Melting Point: >245°C

2-Methylbenzofuran

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC20840-0010**	122.00	----

96%; C_9H_8O; **F.W.** 132.16; [4265-25-2]; **Flash Point:** 67°C
Boiling Point: 197.0°C to 198.0°C
Density: 1.0570g/mL; **n:** 1.5618

2-Methylbutane — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O3551-4**	185.10	4/538.00

≥95 %; Isopentane, 1,1,2-Trimethylethane, 1-Pentane, C_5H_{12}; $(CH_3)_2CHCH_2CH_3$; **F.W.** 72.15; [78-78-4]
Melting Point: –160°C; **Flash Point:** –51°
Boiling Point: 27.8°C; **Density:** 0.62g/mL
DOT Class 3: Flammable Liquid **UN** 1265

SOLVENT — ChemAlert* Storage Code RED

2-Methylbutane — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC12647-0010**	71.60	286.40
25mL	Glass Bottle	**AC12647-0250**	18.00	----

99+%; Isopentane, C_5H_{12}; $C_2H_5CH(CH_3)_2$; **F.W.** 72.15; [78-78-4]
Melting Point: – 160.0°C; **Flash Point:** –51°C
Boiling Point: 30.0°C; **Density:** 0.6200g/mL
n: 1.3530 to 1.3550; **UN** 1265

Methyl 2-chloropyrimidine-5-carboxylate

Quantity	Packaging	Cat.No.	Each	Case of
250mg	Glass Bottle	**MO07903CB**	347.00	----
1g	Glass Bottle	**MO07903DA**	866.00	----

97%; $C_6H_5ClN_2O_2$; **F.W.** 172.57; [287714-35-6]
Melting Point: 76.0°C to 80.0°C; **UN** 2811

4-Methyl-1-cyclohexen-1-ylboronic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43143-0010**	333.90	----

97%; $C_7H_{13}BO_2$; **F.W.** 139.99; [850567-92-9]
Melting Point: 155° to 159°C

Methyl 3-(dimethylamino)-2-isocyanoacrylate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC37202-0050**	423.10	----

96%; $C_7H_{10}N_2O_2$; **F.W.** 154.17; [113212-14-9]
Melting Point: 61.0 to 67.0°C

Methyle6-bromopyridine-2-carboxylate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43687-0050**	155.70	----

97%; $C_7H_6BrNO_2$; **F.W.** 216.03; [26218-75-7]
Melting Point: 94.6° to 95°C

Methyle3-formylbenzoate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC36805-0250**	999.80	----

98%; Methylebenzaldehyde-4-carboxylate, $C_9H_8O_3$
F.W. 164.2;
[52178-50-4]; **Melting Point:** 48° to 55°C

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Methyleglycolate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41437-1000**	317.00	----

98%; $C_3H_6O_3$; $HOCH_2COOCH_3$; **F.W.** 90.08; [96-35-5]
Melting Point: 149° to 151°C; **Flash Point:** 67°C
Boiling Point: 52°C (17mm Hg); **Density:** 1.184g/mL
n: 1.4160 to 1.4180

Methyl 2-(hydroxymethyl)acrylate

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43590-0050**	295.60	----

85%; $C_5H_8O_3$; **F.W.** 116.12; [15484-46-5, 150-19-6]
Flash Point: 90°C; **Boiling Point:** 71.0°C to 72.0°C (2.0 torr)
Density: 1.1290g/mL; **UN** 2810

4,4'-Methylenebis(cyclohexyl isocyanate)

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC43179-1000**	27.25	----
1L	AcroSeal® Glass Bottle	**AC43179-0010**	170.00	----

90%; $C_{15}H_{22}N_2O_2$; **F.W.** 262.35; [5124-30-1]
Melting Point: 19.0°C to 23.0°C; **Flash Point:** 113°C
Boiling Point: 112.0°C to 114.0°C (1010.0 hPa)
Density: 1.0660g/mL; **UN** 2206

Methyl p-Hydroxybenzoate — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**M245-100**	67.90	6/295.50

Powder; Nipagin, Methyl Paraben, 4-Hydroxybenzoic Acid Methyl Ester, $C_8H_8O_3$; $HOC_6H_4COOCH_3$
F.W. 152.15; [99-76-3] **Melting Point:** 125° to 127°C
Boiling Point: 270° to 280°C

ChemAlert® Storage Code GRAY

N-Methylindole-3-boronic acid pinacol ester

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44101-0010**	264.90	----
5g	Glass Bottle	**AC44101-0050**	1036.50	----

97%; $C_{15}H_{20}BNO_2$; **F.W.** 257.14; [683229-61-0]
Melting Point: 106° to 109°C

2-Methyl-6-methoxypyridine-3-boronic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43142-0010**	259.00	----

97%; $C_7H_{10}BNO_3$; **F.W.** 166.97; [459856-12-3]
Melting Point: 231.2°C to 232.7°C

Methyl Methacrylate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O3629-4**	236.00	4/684.00

≥98 %; $C_5H_8O_2$; $CH_2{:}C(CH_3)COOCH_3$; **F.W.** 100.12 [80-62-6]; **Melting Point:** –48°C; **Flash Point:** 7°
Boiling Point: 100.5°C; **Density:** 0.94g/mL
DOT Class 3: Flammable Liquid; **UN** 1247

SOLVENT

ChemAlert® Storage Code RED

N-Methylmorpholine

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Drum	**AC12715-0025**	157.30	----

99%; 4-Methyl-1-oxa-4-azacyclohexane, $C_5H_{11}NO$
F.W. 101.15; [109-02-4] **Melting Point:** – 65.0°C
Flash Point: 14°C; **Boiling Point:** 115.0°C to 116.0°C (750.0 mmHg)
Density: 0.9200g/mL; **n:** 1.4339 to 1.4359; **UN** 2535

5-Methyl-2-nitrobenzoic acid

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC15109-0050**	64.50	----
25g	Glass Bottle	**AC15109-0250**	222.00	----

95%; 6-Nitro-m-toluic acid, $C_8H_7NO_4$; $CH_3C_6H_3(NO_2)CO_2H$
F.W. 181.15; [3113-72-2]; **Melting Point:** 133° to 136°C

1-Methyl-4-piperidinemethanol

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44048-0050**	192.30	----

97%; $C_7H_{15}NO$; **F.W.** 129.20; [20691-89-8]
Melting Point: 29.0°C to 31.0°C; **Boiling Point:** 200.0°C
Density: 0.9800g/mL; **UN** 2735

1-Methyl-2-pyrrolidinone — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O3688-4**	253.00	4/727.50

1-Methylpyrrolidone, N-Methyl-α,-Pyrrolidinone, NMP, C_5H_9NO
F.W. 99.13; [872-50-4]; **Melting Point:** –24°C
Flash Point: 91°C/195.8°F; **Boiling Point:** 202°C
Density: 3.4 (Air = 1.0)

ChemAlert® Storage Code GRAY

1-Methyl-2-pyrrolidinone — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC61041-1000**	62.30	6/310.00

99.5%; NMP, N-Methylpyrrolidone, C_5H_9NO
F.W. 99.13; [872-50-4]; **Melting Point:** – 24.0°C
Flash Point: 91°C; **Boiling Point:** 202.0°C
Density: 1.0300g/mL; **n:** 1.4690 to 1.4710

Methyl Salicylate — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O3695-500**	150.20	6/625.50

≥99 %; Wintergreen Oil, 2-Hydroxybenzoic Acid Methyl Ester, $C_8H_8O_3$; $2\text{-}(CO_2CH_3)C_6H_4OH$; **F.W.** 152.15; [119-36-8]
Melting Point: –8.61°C; **Boiling Point:** 223.28°C
Density: 1.18g/mL

ChemAlert® Storage Code GRAY

Methyl sulfone

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC12778-0025**	339.10	----

98%; Dimethyl sulfone, $C_2H_6O_2S$; $(CH_3)_2SO_2$; **F.W.** 94.13; [67-71-0]
Melting Point: 107.0°C to 111.0°C; **Flash Point:** 143°C
Boiling Point: 238.0°C

Methyl sulfoxide — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC32688-1000**	52.10	6/312.60
1L	AcroSeal® Glass Bottle	**AC32688-0010**	105.50	----

99.7+%; Dimethyl sulfoxide, DMSO, C_2H_6OS; $(CH_3)_2SO$; **F.W.** 78.13; [67-68-5]
Melting Point: 18.4°C; **Flash Point:** 87°C; **Boiling Point:** 189.0°C
Density: 1.1000g/mL; **n:** 1.4770 to 1.4800

Methyl tert-Butyl Ether — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass	**E127-4**	285.50	4/897.00

Mobile phase for HPLC applications.; 99% min by GC; MTBE, tert-Butyl Methyl Ether, $C_5H_{12}O$; **F.W.** 88.14; [1634-04-4]
Melting Point: –109°C; **Flash Point:** –28°C/–18.4°F
Boiling Point: 54° to 56°C/129.2° to 132.8°F; **Density:** 0.2 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 2398; HPLC mobile phase for analytical and preparative separations.
High UV transmittance and low evaporation residue.
Filtered through a sub-micron filter to remove particulates.

ChemAlert® Storage Code RED

2-Methyltetrahydrofuran — Extra Dry

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	AcroSeal® Glass Bottle	**AC39662-0025**	274.40	----

99+%; 2-MeTHF, Tetrahydro-2-methylfuran, $C_5H_{10}O$; **F.W.** 86.13; [96-47-9]
Melting Point: – 136.0°C; **Flash Point:** –11°C; **Boiling Point:** 78.0°C to 80.0°C; **Density:** 0.8600g/mL; **n:** 1.4046 to 1.4066; **UN** 2536

N-Methyl-N-(trimethylsilyl)trifluoroacetamide

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC22158-0050**	48.70	----
25g	Glass Bottle	**AC22158-0250**	161.90	----

Alkylation reagent, Silylation reagent; 97%; MSTFA, $C_6H_{12}F_3NOSi$ $CF_3CON(CH_3)Si(CH_3)_3$; **F.W.** 199.25; [24589-78-4]; **Flash Point:** 25°C
Boiling Point: 130.0°C to 132.0°C; **Density:** 1.0700g/mL; **n:** 1.3782 to 1.3802; **UN** 2920

5-Methyl-DL-tryptophan

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC12797-0050**	1186.40	----

98%; $C_{12}H_{14}N_2O_2$; **F.W.** 218.25; [951-55-3]
Melting Point: 280.0 to 282.0°C

(R)-α;-Methyltryptophan hemihydrate

Quantity	Packaging	Cat.No.	Each	Case of
100mg	Glass Bottle	**AC44119-1000**	290.00	----

98%; $_0$·5 H_2O; **F.W.** 227.28; [56452-52-9];
Melting Point: >231°C

(S)-α;-Methyltryptophan hemihydrate

Quantity	Packaging	Cat.No.	Each	Case of
100mg	Glass Bottle	**AC44120-1000**	290.00	----

98%; $_0$·5 H_2O; **F.W.** 227.28; [16709-25-4]; **Melting Point:** >231°C

(S)-α;-Methyltyrosine

Quantity	Packaging	Cat.No.	Each	Case of
250mg	Glass Bottle	**AC44123-2500**	147.60	----

98%; (S)-α;-Methyl-4-hydroxyphenylalanine, $C_{10}H_{13}NO_3$; **F.W.** 195.22 [672-87-7]; **Melting Point:** >211°C

Methyl vinyl ketone

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC12800-0025**	602.30	----

ca. 95%; 3-Buten-2-one, MVK, C_4H_6O; $H_2C{=}CHCOCH_3$
F.W. 70.09; [78-94-4, 75-05-8, 64-19-7, 123-31-9, 7732-18-5]
Flash Point: –7°C; **Boiling Point:** 80.0°C
Density: 0.8640g/mL; **n:** 1.4100 to 1.4120

2-Methyl-2-vinyloxirane

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC44068-0250**	258.50	----

95%; C_5H_8O; **F.W.** 84.12; [1838-94-4]; **Flash Point:** –8°C
Boiling Point: 80° to 81°C; **Density:** 0.8g/mL; **UN** 1993

Mineral Oil, Heavy — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O122-1**	87.90	6/379.00
4L	Glass Bottle	**O122-4**	204.00	4/569.00

Paraffin - Liquid, Paraffin Oil, Heavy, Liquid Petrolatum, [8042-47-5]; **Flash Point:** 160°C/320°F; **Boiling Point:** 260° to 427°C/500° to 800.1°F; **Density:** 0.83g/mL
Saybolt viscosity: 162 minimum.

ChemAlert® Storage Code GRAY

Mineral Oil, Light — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O121-1**	85.40	6/368.00
4L	Glass Bottle	**O121-4**	243.50	4/676.00
20L	Steel Pail	**O121-20**	813.50	----

Paraffin - Liquid, Glymol for Babcock Test, Paraffin Oil, Light, Light Liquid Petrolatum, [8042-47-5]; **Flash Point:** 160°C/320°F
Boiling Point: 260° to 427°C/500° to 800.1°F; **Density:** 0.83g/mL
Saybolt viscosity: 158 maximum.

ChemAlert® Storage Code GRAY

Mineral oil — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC41508-0025**	67.00	----

Paraffin oil, [8042-47-5]; **Flash Point:** 220°C; **Density:** 0.8770g/mL
n: 1.4760 to 1.4830

Mitomycin C

Quantity	Packaging	Cat.No.	Each	Case of
2mg	Ampule packed in Plastic container	**AC22694-0020**	102.40	----

$C_{15}H_{18}N_4O_5$; **F.W.** 334.32; [50-07-7, 7647-14-5]
Melting Point: > 360.0°C; **UN** 2811

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Molybdic Acid, 85% — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A173-500**	1217.00	6/5320.00

Powder; ≥85.0 %; Ammonium Molybdate, $(NH_4)_6Mo_7O_{24}\cdot 4H_2O$ [12054-85-2]; **Melting Point:** 190°C; **Density:** 2.49g/mL
This reagent consists largely of ammonium molybdate.

ChemAlert® Storage Code GRAY

Morpholine — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**M263-1**	176.50	6/735.50

≥99 %; Diethylene Oximide, Tetrahydro-2H-1,4-Oxazine, C_4H_9NO; $NH(CH_2)_2OCH_2CH_2$; **F.W.** 87.12; [110-91-8]
Melting Point: –5.00°C; **Flash Point:** 32°C/89.6°F
Boiling Point: 127.78°C; **Density:** 3.0 (Air = 1.0)
DOT Class 3: Flammable Liquid; **UN** 2054

SOLVENT

ChemAlert® Storage Code RED

2,3-Naphthalenedicarboxaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
100mg	Glass Bottle	**AC29472-1000**	117.80	----

95%; $C_{12}H_8O_2$; $C_{10}H_6(CHO)_2$; **F.W.** 184.19; [7149-49-7]
Melting Point: 134° to 135°C

N-(1-Naphthyl)ethylenediamine, dihydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC20690-0250**	89.50	----

98%; C12 H14 N2 . 2 Cl H; CHNHCHCHNH2HCl
F.W. 259.18; **Melting Point:** 200.0C

4-Nitrophenyl phosphate, disodium salt, hexahydrate

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC12886-0500**	1777.70	----

98+%; PNPP, $C_6H_4NNa_2O_6P\cdot 6H_2O$; $O_2NC_6H_4OP(O)(ONa)_2\cdot 6H_2O$
F.W. 371.13; [4264-83-9]; **Melting Point:** > 300.0°C

4-Nitro-2-picoline N-oxide

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC44187-0250**	319.50	----

97%; $C_6H_6N_2O_3$; **F.W.** 154.13; [5470-66-6]
Melting Point: 155° to 157°C; **UN** 2811

Nonylmagnesium bromide

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC44078-1000**	140.60	----

clear colorless to brown liquid; $C_9H_{19}BrMg$; CH3(CH2)8MgBr
F.W. 231.46; [39691-62-8]; **Flash Point:** –30°C
Boiling Point: 35°C; **Density:** 0.849g/cm³

Octadecane

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**AC12929-0010**	272.10	----

99+%; $C_{18}H_{38}$; $CH_3(CH_2)_{16}CH_3$; **F.W.** 254.50; [593-45-3]
Melting Point: 28.0°C to 31.0°C; **Flash Point:** 166°C
Boiling Point: 317.0°C; **Density:** 0.7770g/mL

1-Octadecene

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC12931-0025**	63.80	----

90%; $C_{18}H_{36}$; CH3(CH2)15CH=CH2; **F.W.** 252.48; [112-88-9]
Melting Point: 17.5 to 18.3°C; **Flash Point:** 154
Boiling Point: 178.0 to 180.0°C (15.0 mmHg)
Density: 0.789g/mL; **n:** 1.4435 to 1.4455

Octane — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O3980-1**	539.50	6/2200.00

≥95 %; C_8H_{18}; $CH_3(CH_2)_6CH_3$; **F.W.** 114.23; [111-65-9]
Melting Point: –58.61°C; **Flash Point:** 13°
Boiling Point: 125.56°C; **Density:** 0.7g/mL
DOT Class 3: Flammable Liquid; **UN** 1262

SOLVENT

ChemAlert® Storage Code RED

n-Octane — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2mL	Glass Bottle	**AC12937-0020**	48.30	----
500mL	Glass Bottle	**AC12937-5000**	119.10	----

99+%; C_8H_{18}; $CH_3(CH_2)_6CH_3$; **F.W.** 114.23; [111-65-9]
Melting Point: – 57.0°C; **Flash Point:** 13°C
Boiling Point: 125.0°C to 127.0°C; **Density:** 0.7080g/mL
n: 1.3965 to 1.3985; **UN** 1262

1-Octanesulfonic acid, sodium salt

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC41636-0250**	326.00	----
100g	Glass Bottle	**AC41636-1000**	575.10	----

For ion pair chromatography; C8 H17 Na O3 S
CH(CH)SONa; **F.W.** 216.28; **Melting Point:** > 300.0C

1-Octanesulfonic acid, sodium salt monohydrate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC20614-1000**	426.40	----

98%; $C_8H_{17}NaO_3S\cdot H_2O$; CH3(CH2)7SO3Na.H2O
F.W. 234.3; [207596-29-0]; **Melting Point:** >300.0°C

1-Octanol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A402-500**	196.10	6/817.00
4L	Glass Bottle	**A402-4**	843.50	4/2340.00

Octyl Alcohol, Caprylic Alcohol, $C_8H_{18}O$; $CH_3(CH_2)_6CH_2OH$
F.W. 130.23; [111-87-5]; **Melting Point:** –16°C
Flash Point: 81°C/177.8°F; **Boiling Point:** 195°C
Density: 4.5 (Air = 1.0)

ChemAlert® Storage Code GRAY

2-Octanol — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O269-500**	109.70	6/469.50

Secondary Caprylic Alcohol, Methyl Hexyl Carbinol, $C_8H_{18}O$; $CH_3CHOH(CH_2)_5CH_3$; **F.W.** 130.23 [123-96-6, 111-13-7]; **Melting Point:** –38°C
Boiling Point: 174° to 181°C; **Density:** 0.81g/mL

SOLVENT
ChemAlert® Storage Code GRAY

Oleic Acid — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A195-500**	133.60	6/556.27

cis-9-Octadecenoic Acid, $C_{18}H_{34}O_2$; $CH_3(CH_2)_7CH{:}CH(CH_2)_7CO_2H$
F.W. 282.46; [112-80-1]; **Melting Point:** 13.4°C
Boiling Point: 360°C **Density:** 0.9g/mL

ChemAlert® Storage Code GRAY

Oleylamine

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC12954-1000**	27.70	----

1-Amino-9-octadecene, cis-9-Octadecenylamine, $C_{18}H_{37}N$; $CH_3(CH_2)_7CH{=}CH(CH_2)_8NH_2$; **F.W.** 267.50; [112-90-3]
Melting Point: 15.0°C to 22.0°C; **Flash Point:** 154°C
Boiling Point: 147.0°C (2.0 mmHg)
Density: 0.8100g/mL; **n:** 1.4585 to 1.4625; **UN** 2735

1,1';-Oxalyldiimidazole — Technical

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43962-0050**	164.30	----

Coupling reagent; Oxalic acid diimidazolide, $C_8H_6N_4O_2$
F.W. 190.16; [18637-83-7]; **Melting Point:** 114.0°C to 117.0°C
UN 3263

Paraffin

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**P31-500**	67.80	6/293.50

Granules; [64742-51-4]; **Boiling Point:** 322°C
Density: 0.9g/mL

ChemAlert® Storage Code GRAY

Paraformaldehyde — Extra pure

Quantity	Packaging	Cat.No.	Each	Case of
25g	Plastic Bottle	**AC41678-0250**	13.20	----
500g	Plastic Bottle	**AC41678-5000**	35.10	----
3kg	Plastic Bottle	**AC41678-0030**	80.40	----
10kg	Plastic Bucket	**AC41678-0100**	228.20	----

96%; $(CH_2O)n$; [30525-89-4]; **Melting Point:** 120.0°C to 170.0°C
Flash Point: 71°C; **UN** 2213

Paraformaldehyde — Pure

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC16965-0100**	238.00	----

90%; $(CH_2O)n$; [30525-89-4]; **Melting Point:** 120.0°C to 170.0°C
Flash Point: 71°C

1-Pentanesulfonic acid, sodium salt monohydrate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC42320-0250**	214.00	----
100g	Glass Bottle	**AC42320-1000**	585.00	----

For ion pair chromatography; 98+%; n-Amylsulfonic acid, sodium salt, $C_5H_{11}NaO_3S{\cdot}H_2O$; $CH_3(CH_2)_4SO_3Na{\cdot}H_2O$; **F.W.** 192.22; [207605-40-1]
Melting Point: > 300.0°C

1-Pentanesulfonic Acid Sodium Salt Anhydrous — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O4068-100**	1002.00	6/4380.00

$C_5H_{11}O_3SNa$; $CH_3(CH_2)_4SO_3Na$
F.W. 174.2; [22767-49-3]

ChemAlert® Storage Code GRAY

Perfluorooctyl bromide

Quantity	Packaging	Cat.No.	Each	Case of
50g	Glass Bottle	**AC38679-0500**	433.50	----

99%; 1-Bromo-heptadecafluorooctane, C_8BrF_{17}; $CF_3(CF_2)_7Br$
.W. 498.95; [423-55-2]; **Melting Point:** 6°C
Boiling Point: 142°C (760mm Hg); **Density:** 1.93g/mL
n: 1.3050 to 1.3070

Petrolatum — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
1 lb.	Plastic Jar	**P66-1LB**	83.90	6/319.50
7 lb.	Plastic Jar	**P66-7LB**	348.50	4/1008.00

White; Petroleum Jelly, [8009-03-8]
Melting Point: 38° to 45°C; **Density:** 0.84g/mL

ChemAlert® Storage Code GRAY

1,10-Phenanthroline Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**P70-5**	169.19	6/707.27
10g	Glass Bottle	**P70-10**	267.00	6/1156.00

o-Phenanthroline, $C_{12}H_8N_2{\cdot}H_2O$; **F.W.** 198.23; [5144-89-8]
Melting Point: >98°C; **DOT Class 6.1**: Poison; **UN** 2811

ChemAlert® Storage Code BLUE

Phenol — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Amber Glass/ Poison Pack	**A92-100**	135.00	----
500g	Amber Glass/ Poison Pack	**A92-500**	233.00	----
1.5kg	Amber Glass/ Poison Pack	**A92-112**	545.00	----

Crystals; ≥99.0 %; Carbolic Acid, Phenyl Hydroxide, Hydroxybenzene, C_6H_5OH; C_6H_5OH; **F.W.** 94.11; [108-95-2]
Melting Point: 39° to 42°C/102.2° to 107.6°F
Flash Point: 79°C/174.2°F; **Boiling Point:** 90.2°C at 25 mmHg
Density: 3.2; **DOT Class 6.1**: Poison
UN 1671

ChemAlert® Storage Code WHITE

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Phenol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A931I-500**	169.70	----
1L	Glass Bottle	**A931I-1**	279.00	----
4L	Glass Bottle	**A931I-4**	836.50	----
200L	Lined Steel Drum	**A931I-200**	5944.83	----

Liquid; Carbolic Acid, Phenyl Hydroxide, Hydroxybenzene, [108-95-2]; **Flash Point:** 79.4°C/174.9°F; **Density:** 3.2
DOT Class 6.1: Poison; **UN** 2821

ChemAlert® Storage Code: WHITE

Phenol — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**A91I-500**	120.30	----
2.5kg	Glass Bottle	**A91I-212**	265.66	----

Fused Crystals; Carbolic Acid, Phenyl Hydroxide, Hydroxybenzene, C_6H_6O; C_6H_5OH; **F.W.** 94.11; [108-95-2]
Melting Point: 39° to 42°C/102.2° to 107.6°F
Flash Point: 79°C/174.2°F
Density: 3.2; **DOT Class 6.1**: Poison; **UN** 1671

ChemAlert® Storage Code: WHITE

N-Phenylbis(trifluoromethanesulfonimide)

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC37479-1000**	779.90	----

Coupling reagent; 97%; $C_8H_5F_6NO_4S_2$; $C_6H_5N(SO_2CF_3)_2$; **F.W.** 357.25 [37595-74-7]; **Melting Point:** 99.0°C to 105.0°C; **UN** 2811

4-Phenylbutyric acid

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC13038-5000**	699.70	----

99%; $C_{10}H_{12}O_2$; $C_6H_5(CH_2)_3CO_2H$; **F.W.** 164.20; [1821-12-1]
Melting Point: 49.0°C to 52.0°C; **Flash Point:** >110°C
Boiling Point: 165.0°C (10.0 mmHg)

Phenyl chlorothionocarbonate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC21549-0250**	309.50	----

99%; C_7H_5ClOS; ClC(S)OC6H5; **F.W.** 172.63; [1005-56-7]
Flash Point: 81; **Boiling Point:** 81.0 to 83.0°C (6.0 mmHg)
Density: 1.248g/mL; **n:** 1.4795 to 1.4815

O-Phenylhydroxylamine hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43881-0010**	127.90	----

97%; Phenoxyamine hydrochloride, $C_6H_7NO{\cdot}ClH$
F.W. 145.59; [6092-80-4]; **Melting Point:** 121° to 122°C; **UN** 2811

Phthalaldehyde — Certified

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**O4241-5**	273.00	6/1191.00

1,2-Phthalic Dicarboxaldehyde, $C_6H_4(CHO)_2$; C_6H_4-1,2-$(CHO)_2$
F.W. 134.13; [643-79-8]; Suitable for fluorometric determination of proteins and for HPLC.

ChemAlert® Storage Code: GRAY

Pinacol

Quantity	Packaging	Cat.No.	Each	Case of
1kg	Glass Bottle	**AC41800-0010**	695.50	----

99%; 2,3-Dimethyl-2,3-butanediol, $C_6H_{14}O_2$; $(CH_3)_2COHCOH(CH_3)_2$
F.W. 118.18; [76-09-5]; **Melting Point:** 40° to 43°C; **Flash Point:** 77°C
Boiling Point: 174°C

(1S)-(-)-α;-Pinene

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC13127-0025**	112.80	----

98%; $C_{10}H_{16}$; **F.W.** 136.24; [7785-26-4]; **Melting Point:** – 64.0°C
Flash Point: 33°C; **Boiling Point:** 155.0°C to 156.0°C
Density: 0.8595g/mL
n: 1.4650 to 1.4670

2,4-Piperidinedione

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC44673-0010**	210.50	----
5g	Glass Bottle	**AC44673-0050**	806.20	----

97%; 2,4-Dioxopiperidine, 2,4-Diketopiperidine, $C_5H_7NO_2$
F.W. 113.12; [50607-30-2]; **Melting Point:** 99.1°C to 100.1°C

Poly(DL-lactide-co-glycolide)

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC43620-0050**	321.80	----

[26780-50-7]

Poly(vinyl alcohol)

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC39676-0025**	257.40	----

Indicator; PVA, [-$CH_2CH(OH)$-]n; [9002-89-5]
Melting Point: 160.0°C to 240.0°C

Polyvinylsulfuric acid potassium salt

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC41814-1000**	1928.20	----

Polyvinyl sulfate potassium salt, (-CH2CH(OSO3K)-)n
[26837-42-3]

Potassium Citrate Monohydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**P222-500**	91.00	377.50

Crystalline; Citric Acid Tripotassium Salt, $C_6H_7K_3O_8$
$KO_2CCH_2C(OH)(CO_2K)CH_2CO_2K{\cdot}H_2O$
F.W. 324.41; [6100-05-6]
Melting Point: 230°C; **Density:** 1.98g/mL

ChemAlert® Storage Code: GRAY

Potassium Hydrogen Phthalate — Primary Standard

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**P243-100**	147.60	6/619.50
500g	Glass Bottle	**P243-500**	302.00	6/1304.00

Also meets ACS specifications; ≥98.5 %
Phthalic Acid
Potassium Salt, Potassium Acid Phthalate, Potassium Biphthalate, $C_8H_5KO_4$; 1-(HO_2C)-2-(CO_2K)-C_6H_4
F.W. 204.23; [877-24-7]; **Melting Point:** 295° to 300°C
Density: 1.64g/mL; Note: This reagent is satisfactory for use as a pH standard. For use as an acidimetric standard, this material should be lightly crushed and dried for 2 hours at 120°C to remove any absorbed moisture.

ChemAlert* Storage Code GRAY

Potassium hydrogen phthalate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Plastic Bottle	**AC17712-1000**	22.60	----
500g	Plastic Bottle	**AC17712-5000**	73.80	----
2.5kg	Plastic Bottle	**AC17712-0025**	278.50	----

For ultra trace analysis; 99.99%; Potassium biphthalate, Potassium acid phthalate, $C_8H_5KO_4$; 2-$(HO_2C)C_6H_4CO_2K$; **F.W.** 204.22; [877-24-7]
Melting Point: 295.0°C to 300.0°C

Potassium Oxalate Monohydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
250g	Glass Bottle	**P273-250**	134.90	6/562.50
500g	Glass Bottle	**P273-500**	222.00	6/964.00

Crystalline; 98.5 to 101.0 %; Oxalic Acid Potassium Salt, $C_2O_4K_2{\cdot}H_2O$; **F.W.** 184.23; [6487-48-5]; **Melting Point:** 356°C
Density: 2.13g/mL; **DOT Class 6.1**: Poison; **UN** 2811

ChemAlert* Storage Code BLUE

Potassium tert-butoxide — Pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC16888-0025**	372.70	----

98+%; Potassium tert-butylate, C_4H_9KO; $(CH_3)_3COK$; **F.W.** 112.21
[865-47-4]; **Melting Point:** 240.0°C to 258.0°C

Potassium tert-butoxide — Pure

Quantity	Packaging	Cat.No.	Each	Case of
250mL	Glass Bottle	**AC36499-2500**	153.10	----

Potassium tert-butylate, C_4H_9KO; $(CH_3)_3COK$; **F.W.** 112.21
[865-47-4, 109-99-9]; **Flash Point:** –21°C; **Density:** 0.9290g/mL

1,3-Propanediol

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC13140-0025**	421.40	----

98%; Trimethylene glycol, $C_3H_8O_2$; $HO(CH_2)_3OH$
F.W. 76.09; [504-63-2]; **Melting Point:** – 32.0°C
Flash Point: 140°C; **Boiling Point:** 214.0°C
Density: 1.0520g/mL; **n:** 1.4380 to 1.4400

Propionic Acid — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A258-500**	64.80	6/216.50

Methyl Acetic Acid, Propanoic Acid, Ethylformic Acid, CH_3CH_2COOH; CH_3CH_2COOH; **F.W.** 74.08; [79-09-4]
Melting Point: –22°C; **Flash Point:** 52°
Boiling Point: 141°C; **Density:** 0.99g/mL
DOT Class 8: Corrosive; **UN** 1848

ACID

ChemAlert* Storage Code RED

Propionitrile — extra pure

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC18089-0025**	334.60	----

99%; C_3H_5N; C_2H_5CN; **F.W.** 55.08; [107-12-0]; **Melting Point:** –93°C
Flash Point: 6°C; **Boiling Point:** 97°C (760mm Hg); **Density:** 0.77g/mL
n: 1.3650 to 1.3670; **UN** 2404

3-Pyridazinecarboxylic acid

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44672-0050**	569.80	----

97%; $C_5H_4N_2O_2$; **F.W.** 124.10; [2164-61-6]
Melting Point: 190.8°C to 194.0°C

Pyrogallol — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A263-100**	332.00	6/1435.00
500g	Poly Bottle	**A263-500**	1028.00	6/4530.00

Crystalline; 1,2,3-Benzenetriol, 1,2,3-Trihydroxybenzene, Pyrogallic Acid, $C_6H_3(OH)_3$; C_6H_3-1,2,3-$(OH)_3$
F.W. 126.11; [87-66-1] **C.I.** 76515; **Melting Point:** 133° to 134°C
Boiling Point: 309°C **Density:** 1.45g/mL
DOT Class 6.1: Poison; **UN** 2811

ChemAlert* Storage Code BLUE

Pyrogallol

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC16456-0025**	776.60	----

99%; Pyrogallic acid, 1,2,3-Trihydroxybenzene, 1,2,3-Benzenetriol, $C_6H_6O_3$ $C_6H_3(OH)_3$; **F.W.** 126.11; [87-66-1]; **Melting Point:** 131.0°C to 135.0°C
Boiling Point: 309.0°C

Pyruvic Acid Sodium Salt — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**O4376-100**	325.00	6/1420.00

≥97 %; Sodium Pyruvate, $C_3H_3O_3Na$; $CH_3COCOONa$
F.W. 110.04; [113-24-6]; **Melting Point:** >300°C

ChemAlert* Storage Code GRAY

Quinoline — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**Q35-500**	245.50	6/1034.00

1-Benzazine, Leucoline, Benzo[b]Pyridine, C_9H_7N C_6H_4N:CHCH:CH; **F.W.** 129.16; [91-22-5]; **Melting Point:** –15°C
Boiling Point: 237°C; **Density:** 1.09g/mL
DOT Class 6.1: Poison **UN** 2656

ChemAlert* Storage Code BLUE

Fisher Scientific

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Prices subject to change.

2-Quinolinecarboxaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC37017-0250**	389.80	----

97%; $C_{10}H_7NO$; **F.W.** 157.17; [5470-96-2]
Melting Point: 66° to 71°C

Ridox* Oxygen Scavenger

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**R31-3**	2020.00	----

Aluminum Oxide, [1344-28-1, 7440-50-8]; **Melting Point:** 1,995°C
Boiling Point: 2,800°C; **Density:** 4g/mL; Reagent for gas purification. High-efficiency oxygen removal.

ChemAlert® Storage Code GRAY

Salicylaldehyde — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A281-500**	571.43	6/2486.20

2-Hydroxybenzaldehyde, Salicylic Aldehyde, $C_7H_6O_2$
2-HOC_6H_4CHO; **F.W.** 122.12; [90-02-8]; **Melting Point:** –7.2°C
Boiling Point: 196°C; **Density:** 1.17g/mL

ChemAlert® Storage Code RED

Silicone oil

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC17466-0025**	716.00	----

Poly(methylphenylsiloxane), [63148-58-3]; **Flash Point:** 316°C
Density: 1.05g/mL; **n:** 1.4940 to 1.5010

Silver trifluoromethanesulfonate

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC17520-1000**	499.50	----

99+%; Trifluoromethanesulfonic acid, silver salt, $CAgF_3O_3S$; CF3SO3Ag
F.W. 256.92; [2923-28-6]; **Melting Point:** 356.0°C

Sodium Benzoate — NF/FCC

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S224-500**	139.40	4/392.50

Granular; Benzoic Acid Sodium Salt, $C_7H_5O_2Na$; $C_6H_5CO_2Na$
F.W. 144.11; [532-32-1]; **Melting Point:** >300°C

ChemAlert® Storage Code GRAY

Sodium Bitartrate Monohydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S245-500**	220.00	6/974.00

Crystalline; Tartaric Acid Monosodium Salt, Sodium Hydrogen Tartrate, $C_4H_5O_6NaxH_2O$; $NaHC_4H_4O_6{\cdot}H_2O$; **F.W.** 190.09; [6131-98-2]

ChemAlert® Storage Code GRAY

Sodium Citrate Dihydrate — USP/FCC/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Poly Bottle	**S470-212**	496.00	----
12kg	Poly Pail	**S470-12**	1393.00	----

Granular; Citric Acid Trisodium Salt Dihydrate, $Na_3C_6H_5O_7{\cdot}2H_2O$
$NaO_2CCH_2C(OH)(CO_2Na)CH_2CO_2Na{\cdot}2H_2O$
F.W. 294.1; [6132-04-3]; **Melting Point:** 313.9°C
Density: 1.67g/mL

ChemAlert® Storage Code GRAY

Sodium Citrate Dihydrate — USP/FCC

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**S466-3**	384.28	4/1117.25

Granular; Citric Acid Trisodium Salt Dihydrate, $Na_3C_6H_5O_7{\cdot}2H_2O$
$NaO_2CCH_2C(OH)(CO_2Na)CH_2CO_2Na{\cdot}2H_2O$; **F.W.** 294.1; [6132-04-3]
Melting Point: 313.9°C; **Density:** 1.67g/mL

ChemAlert® Storage Code GRAY

Sodium Citrate Dihydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S279-500**	86.20	6/379.50
3kg	Poly Bottle	**S279-3**	321.00	4/942.00
10kg	Poly Pail	**S279-10**	712.00	----
50kg	Fiber Drum	**S279-50**	1764.00	----
275 lb.	Fiber Drum	**S279-275LB**	2045.10	----

Granular; Citric Acid Trisodium Salt Dihydrate, $Na_3C_6H_5O_7{\cdot}2H_2O$
F.W. 294.1; [6132-04-3]; **Melting Point:** 313.9°C; **Density:** 1.67g/mL

Sodium Diethyldithiocarbamate Trihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S287-100**	185.40	6/772.00

Crystalline; Diethyldithiocarbamic Acid Sodium Salt, $C_5H_{10}NNaS_2{\cdot}3H_2O$; $(CH_3CH_2)_2NCSSNa{\cdot}3H_2O$; **F.W.** 225.31 [20624-25-3]; **Melting Point:** 95° to 98.5°C/203° to 209.3°F; Due to an inherent reactivity, this reagent will form insoluble oxidation products upon exposure to oxygen. After storage for some time, the reagent may fail to meet the specification for solubility in water.

ChemAlert® Storage Code GRAY

Sodium Formate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S648-500**	172.50	6/716.50

Crystalline; ≥99 %; CHO_2Na; HCOONa; **F.W.** 68.01; [141-53-7]
Melting Point: 253° to 261°C; **Density:** 1.92g/mL

ChemAlert® Storage Code GRAY

Sodium Methoxide — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S335-100**	58.35	6/252.13

Powder; Sodium Methylate, $NaCH_3O$; **F.W.** 54.01; [124-41-4]
Melting Point: 127°C; **Density:** 1.1g/mL
DOT Class 4.2: Spontaneously Combustible; **UN** 1431

ChemAlert® Storage Code RED

Sodium Oxalate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S487-500**	295.00	6/1290.00

≥99.5 %; Ethanedioic Acid Disodium Salt, $C_2O_4Na_2$
NaO_2CCO_2Na; **F.W.** 134; [62-76-0]; **Melting Point:** 250° to 270°C
Density: 2.34g/mL; **DOT Class 6.1**: Poison; **UN** 2811

ChemAlert® Storage Code BLUE

Sodium Potassium Tartrate Tetrahydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S387-500**	245.00	6/1095.00
3kg	Poly Bottle	**S387-3**	963.00	4/2800.00
10kg	Poly Pail	**S387-10**	1641.00	----

Crystalline; 99 to 102 %; Seignette Salt, Tartaric Acid Sodium Potassium Salt, Rochelle Salt, $NaKC_4H_4O_6{\cdot}4H_2O$; **F.W.** 282.22 [6381-59-5]; **Melting Point:** 70° to 80°C/158° to 176°F;
Boiling Point: 437.22°C

ChemAlert® Storage Code GRAY

Sodium Salicylate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**S395-500**	169.20	4/670.50

Powder; ≥99.5 %; Salicylic Acid Sodium Salt, 2-Hydroxybenzoic Acid, Sodium Salt, $C_7H_5NaO_3$; 2-HOC_6H_4COONa; **F.W.** 160.1 [54-21-7]; **Melting Point:** 200°C

ChemAlert® Storage Code GRAY

Sodium Salicylate — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S396-500**	149.07	4/435.59
2.5kg	Poly Pail	**S396-212**	440.50	----
12kg	Fiber Drum	**S396-12**	1325.00	----

Small Crystals, Free Flowing; 99.5 to 100.5 %; Salicylic Acid Sodium Salt, 2-Hydroxybenzoic Acid Sodium Salt, $C_7H_5NaO_3$ 2-HOC_6H_4COONa; **F.W.** 160.1; [54-21-7]; **Melting Point:** 200°C

ChemAlert® Storage Code GRAY

Sodium L-(+)-Tartrate Dihydrate — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**S433-100**	106.67	6/447.62
500g	Poly Bottle	**S433-500**	223.00	6/993.50

Crystalline; ≥99.0 %; Tartaric Acid Disodium Salt, $C_4H_4O_6Na_2{\cdot}2H_2O$ **F.W.** 230.08; [6106-24-7]; **Melting Point:** 150.00°C; **Density:** 1.8g/mL

ChemAlert® Storage Code GRAY

Sodium triacetoxyborohydride

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC29182-0250**	39.95	----
100g	Glass Bottle	**AC29182-1000**	115.90	----

Reduction reagent; 97%; $C_6H_{10}BNaO_6$; $NaB(O_2CCH_3)_3H$; **F.W.** 211.94 [56553-60-7]; **Melting Point:** 114.0°C to 118.0°C; **UN** 3396

D-Sorbitol — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S459-500**	115.30	6/477.99

Powder; D-Glucitol, $C_6H_{14}O_6$; $CH_2OH(CHOH)_4CH_2OH$ **F.W.** 182.17; [50-70-4]; **Melting Point:** 75°C; **Boiling Point:** 295°C **Density:** 1.49g/mL

ChemAlert® Storage Code GRAY

Stearic Acid — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A292-500**	83.50	6/364.00

Octadecanoic Acid, $C_{18}H_{36}O_2$; $CH_3(CH_2)_{16}COOH$; **F.W.** 284.49 [57-11-4]; **Melting Point:** 67° to 69°C/152.6° to 156.2°F **Flash Point:** 196°C/384.8°F; **Boiling Point:** 361°C; **Density:** 0.84g/mL

ChemAlert® Storage Code GRAY

Stearic acid

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Fiber Drum	**AC17449-0100**	175.50	----

97%; Octadecanoic acid, $C_{18}H_{36}O_2$; $CH_3(CH_2)_{16}CO_2H$ **F.W.** 284.47; [57-11-4]; **Melting Point:** 67.0°C to 69.0°C **Flash Point:** 196°C; **Boiling Point:** 361.0°C; **Density:** 0.8400g/mL

O-(N-Succinimidyl)-N,N,N',N'-tetramethyluronium tetrafluoroborate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC30319-0010**	50.40	----
5g	Glass Bottle	**AC30319-0050**	173.20	----

Coupling reagent; 97%; N,N,N',N'-Tetramethyl-O-(N-succinimidyl)uronium tetrafluoroborate, TSTU, $C_9H_{16}N_3O_3{\cdot}BF_4$; **F.W.** 301.05; [105832-38-0] **Melting Point:** 194° to 200°C

Sucrose — NF/EP/BP/JP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S6-500**	185.70	----
2.5kg	Poly Bottle	**S6-212**	445.50	----
12kg	Poly Pail	**S6-12**	1414.45	----
50kg	Poly Drum	**S6-50**	5834.55	----

Crystalline; Cane Sugar, Saccharose, Sugar, $C_{12}H_{22}O_{11}$; **F.W.** 342.3 [57-50-1]; **Melting Point:** 190° to 192°C/374° to 377.6°F

ChemAlert® Storage Code GRAY

Sucrose — EP/BP/NF

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S2-500GM**	75.60	6/366.50
2.5kg	Poly Bottle	**S2-212**	334.50	4/928.50
12kg	Poly Pail	**S2-12**	651.28	----
50kg	Fiber Drum	**S2-50**	1114.78	----

Crystalline; Cane Sugar, Saccharose, Sugar, $C_{12}H_{22}O_{11}$ **F.W.** 342.3; [57-50-1]; **Melting Point:** 190° to 192°C/374° to 377.6°F

ChemAlert® Storage Code GRAY

Sucrose — NF

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S3-500**	124.20	6/506.50
2.5kg	Poly Bottle	**S3-212**	391.00	4/1084.00
12kg	Poly Pail	**S3-12**	716.79	----

Crystalline; Cane Sugar, Saccharose, Sugar, $C_{12}H_{22}O_{11}$; **F.W.** 342.3 [57-50-1]; **Melting Point:** 190° to 192°C/374° to 377.6°F

ChemAlert® Storage Code GRAY

Sucrose — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**S5-500**	108.90	6/458.50
3kg	Poly Bottle	**S5-3**	326.00	4/945.50
12kg	Poly Pail	**S5-12**	915.00	----

Crystalline; Cane Sugar, Saccharose, Sugar, $C_{12}H_{22}O_{11}$; **F.W.** 342.3 [57-50-1]; **Melting Point:** 190° to 192°C/374° to 377.6°F

ChemAlert® Storage Code GRAY

Sulfamic acid

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC22207-0100**	326.80	----

99%; Amidosulfonic acid, H_3NO_3S; H_2NSO_3H; **F.W.** 97.09; [5329-14-6] **Melting Point:** 200.0°C to 208.0°C

Sulfanilic Acid Anhydrous — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A296-500**	398.00	6/1780.00

Crystalline; 98.0 to 102.0 %; Aniline p-Sulfonic Acid, 4-Aminobenzenesulfonic Acid, $C_6H_7NO_3S$; 4-$NH_2C_6H_4SO_3H$ **F.W.** 173.19; [121-57-3]; **Melting Point:** 287.78°C; **Density:** 1.49g/mL

ChemAlert® Storage Code GRAY

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5-Sulfosalicylic Acid Dihydrate — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A297-100**	126.20	6/520.50
500g	Glass Bottle	**A297-500**	443.50	6/1943.00
3kg	Poly Bottle	**A297-3**	1547.00	4/4550.00

Crystalline; 99.0 to 101.0 %; 2-Hydroxy-5-sulfobenzoic Acid, $C_7H_6O_6S{\cdot}2H_2O$; 1-(OH)-2-(COOH)-4-SO_3H-$C_6H_3{\cdot}2H_2O$; **F.W.** 254.22 [5965-83-3]; **Melting Point:** 106° to 110°C; **DOT Class 8**: Corrosive **UN** 2585

ChemAlert® Storage Code WHITE

L-(+)-Tartaric Acid — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**A314-500**	198.90	6/821.00
3kg	Poly Bottle	**A314-3**	537.50	1577.00

Granular; ≥99.0 %; 2,3-Dihydroxybutanedioic Acid, Dioxysuccinic Acid, Dextrotartaric Acid, $C_4H_6O_6$; $HOOC(CHOH)_2COOH$
F.W. 150.09; [87-69-4]; **Melting Point:** 168° to 170°C; **Density:** 1.76g/mL

ChemAlert® Storage Code GRAY

Tebbe reagent

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle packed in tin can	**AC36897-1000**	619.00	----

For C-C Bond Formation (Olefination), Lewis acid; $C_{13}H_{18}AlClTi$; **F.W.** 284.62 [67719-69-1, 108-88-3]; **Flash Point:** 4°C; **Density:** 0.9270g/mL; **UN** 2924

α;-Terpineol — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**T31-1**	195.48	6/845.34

p-Menth-1-en-8-ol, $C_{10}H_{18}O$; $CH_3C{:}CHCH_2CH[C(CH_3)_2OH]CH_2CH_2$
F.W. 154.25; [98-55-5]; **Melting Point:** 31° to 34°C/87.8° to 93.2°F
Flash Point: 90°C/194°F; **Boiling Point:** 214° to 224°C; **Density:** >1.0

ChemAlert® Storage Code GRAY

tert-Amyl Alcohol — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**A730-1**	222.00	6/969.00

Amylene Hydrate, tert-Pentyl Alcohol, 2-Methyl-2-Butanol, tert-Pentanol, Dimethyl Ethyl Carbinol, $C_5H_{12}O$; $(CH_3)_2COHC_2H_5$; **F.W.** 88.15; [75-85-4]
Melting Point: –12°C; **Flash Point:** 20°; **Boiling Point:** 102°C
Density: 0.8g/mL; **DOT Class 3**: Flammable Liquid; **UN** 1105

SOLVENT

ChemAlert® Storage Code RED

tert-Butyl carbamate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC17345-0250**	185.50	----

98%; $C_5H_{11}NO_2$; $H_2NCO_2C(CH_3)_3$; **F.W.** 117.15; [4248-19-5]
Melting Point: 105.0°C to 109.0°C

tert-Butyl 4-(chlorosulfonyl)piperidine-1-carboxylate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43099-0010**	246.20	----
5g	Glass Bottle	**AC43099-0050**	694.30	----

97%; 1-BOC-Piperidine-4-sulfonyl chloride, $C_{10}H_{18}ClNO_4S$
F.W. 283.77; [782501-25-1]; **Melting Point:** 82° to 85°C; **UN** 3265

tert-Butyl 3-(trifluoromethylsulfonyloxy)-8-azabicyclo[3.2.1]oct-3-ene-8-carboxylate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43859-0010**	285.60	----

95%; 3-Trifluoromethanesulfonyloxy-8-azabicyclo[3.2.1]octane-8-carboxylic acid tert-butyl ester, $C_{13}H_{18}F_3NO_5S$; **F.W.** 357.35; [185099-68-7]
Melting Point: 36° to 40°C

Tetrabenzyl pyrophosphate

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43675-0010**	178.90	----

99%; $C_{28}H_{28}O_7P_2$; **F.W.** 538.47; [990-91-0]; **Melting Point:** 60.5° to 63°C
UN 3261

1,1,2,2-Tetrabromoethane — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**A33-500**	210.00	6/866.50
4L	Glass Bottle	**A33-4**	1430.00	4/4010.00

Acetylene Tetrabromide, Muthmann Liquid, sym-Tetrabromoethane, $C_2H_2Br_4$; $CHBr_2CHBr_2$; **F.W.** 345.67 [79-27-6]; **Melting Point:** 0°C; **Boiling Point:** 243.89°C
Density: 2.96g/mL; **DOT Class 6.1**: Poison; **UN** 2504

ChemAlert® Storage Code BLUE

Tetrabutylammonium bromide

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC18568-0025**	713.80	----

Phase transfer catalyst; 99+%; TBAB, $C_{16}H_{36}BrN$; $[CH_3(CH_2)_3]_4NBr$
F.W. 322.36; [1643-19-2]; **Melting Point:** 100.0° to 104.0°C

Tetrabutylammonium Phosphate — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**O6117-5**	931.32	----
25g	Glass Bottle	**O6117-25**	3770.00	6/17220.00

White to Off-white Powder; ≥98.5 %; $C_{16}H_{38}NO_4P$ $(CH_3CH_2CH_2CH_2)_4NH_2PO_4$; **F.W.** 339.45; [5574-97-0]
Melting Point: 148° to 151°C

ChemAlert® Storage Code GRAY

Tetrachloroethylene — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O4586-4**	245.50	4/728.00

Tetrachloroethene, Perchloroethylene, Ethylene Tetrachloride, C_2Cl_4; $CCl_2{:}CCl_2$; **F.W.** 165.83; [127-18-4]
Melting Point: –22.3°C; **Boiling Point:** 121°C
Density: 5.8; **DOT Class 6.1**: Poison; **UN** 1897

ChemAlert® Storage Code BLUE

Tetracontane

Quantity	Packaging	Cat.No.	Each	Case of
2.5g	Glass Bottle	**AC30916-0025**	284.20	----

98%; $C_{40}H_{82}$; CH3(CH2)38CH3; **F.W.** 563.1; [4181-95-7]
Melting Point: 80.0 to 83.0°C

Tetradecane — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**O4595-500**	220.00	6/950.50

≥98 %; $C_{14}H_{30}$; $CH_3(CH_2)_{12}CH_3$; **F.W.** 198.39; [629-59-4]
Melting Point: 5.8°C; **Flash Point:** 99°C/210.2°F
Boiling Point: 252° to 254°C; **Density:** 6.8

ChemAlert® Storage Code GRAY

Tetradecyl sodium sulfate

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC42026-0250**	548.00	----

95%; $C_{14}H_{29}NaO_4S$; $CH_3(CH_2)_{13}OSO_3Na$; **F.W.** 316.44; [1191-50-0]
Melting Point: 199.0°C

Tetraethylammonium acetate tetrahydrate

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC19494-5000**	920.70	----

Phase transfer catalyst; 99%; $C_{10}H_{23}NO_2{\cdot}4H_2O$; (C2H5)4N(O2CCH3).4H2O
F.W. 261.35; [67533-12-4]; **Melting Point:** 40.0 to 45.0°C; **Flash Point:** 60

Tetraethylammonium Bromide — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**O4602-500**	251.00	6/1109.00

≥98 %; TEAB, N,N,N-Triethylethanaminium Bromide, $(C_2H_5)_4NBr$
$(C_2H_5)_4NBr$; **F.W.** 210.16; [71-91-0]; **Density:** 1.4g/mL

Tetraethyl orthosilicate

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC15781-1000**	42.30	----
1L	Glass Bottle	**AC15781-0010**	57.60	----

98%; Ethyl silicate, Tetraethoxysilane, TEOS, $C_8H_{20}O_4Si$; $Si(OC_2H_5)_4$
F.W. 208.33; [78-10-4]; **Melting Point:** – 77.0°C
Flash Point: 45°C; **Boiling Point:** 166.0°C to 169.0°C
Density: 0.9400g/mL; **n:** 1.3820 to 1.3840 **UN** 1292

Tetraethyl Orthosilicate — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**O4617-4**	913.78	4/2636.58

Tetraethoxysilane, Ethyl Orthosilicate, $C_8H_{20}O_4Si$; $(C_2H_5O)_4Si$
F.W. 208.33; [78-10-4]; **Melting Point:** –77°C
Flash Point: 45°C/113°F
Boiling Point: 165° to 166°C; **Density:** 7.2

Tetraethyl orthosilicate

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC42036-1000**	12.20	----
1L	AcroSeal® Glass Bottle	**AC42036-0010**	56.50	----

98%; Ethyl silicate, Tetraethoxysilane, TEOS, $C_8H_{20}O_4Si$; $Si(OC_2H_5)_4$
F.W. 208.33; [78-10-4]; **Melting Point:** –77°C; **Flash Point:** 45°C
Boiling Point: 166° to 169°C (760mm Hg); **Density:** 0.94g/mL
n: 1.3820 to 1.3840; **UN** 1292

1,2,3,4-Tetrahydronaphthalene — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T72-4**	339.87	4/971.13

$C_{10}H_{12}$; $C_6H_4CH_2CH_2CH_2CH_2$; **F.W.** 132.21; [119-64-2, 91-17-8, 91-20-3]
Melting Point: –30°C; **Boiling Point:** 207°C; **Density:** 0.97g/mL

Tetrahydro-4H-pyran-4-one

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC18944-0250**	565.80	----

99%; $C_5H_8O_2$; **F.W.** 100.12; [29943-42-8]; **Flash Point:** 56
Boiling Point: 166.0°C (760.0 mmHg); **Density:** 1.08g/mL
n: 1.4510 to 1.4530

O-(Tetrahydropyran-2-yl)hydroxylamine

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43785-0010**	62.40	----

96%; $C_5H_{11}NO_2$; **F.W.** 117.15; [6723-30-4]
Melting Point: 32.7°C to 37.0°C

1,2,3,4-Tetrahydroquinoline

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC13827-0025**	655.00	----

98%; $C_9H_{11}N$; **F.W.** 133.19; [635-46-1]; **Melting Point:** 15.0°C to 17.0°C
Flash Point: 100°C; **Boiling Point:** 249.0°C; **Density:** 1.0600g/mL
n: 1.5930 to 1.5950

Tetrakis(triphenylphosphine)palladium(o)

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44140-0050**	202.30	----

99.9%; $C_{72}H_{60}P_4Pd$; **F.W.** 1155.58; [14221-01-3]
Melting Point: 103° to 107°C

3,3';,5,5';-Tetramethylbenzidine

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC22928-0250**	523.00	----

99+%; TMB, $C_{16}H_{20}N_2$; $(H_2N(CH_3)_2C_6H_2\text{-})_2$; **F.W.** 240.35; [54827-17-7]
Melting Point: 167.0°C to 170.0°C

1,2,3,4-Tetramethyl-1,3-cyclopentadiene

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC34807-0250**	490.80	----

85%; C_9H_{14}; **F.W.** 122.21; [858238]; **Flash Point:** 42; **Boiling Point:** 142.0°C
Density: 0.808g/mL; **n:** 1.4700 to 1.4760

1,1,3,3-Tetramethyldisiloxane

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**AC21651-5000**	255.00	----

Reduction reagent; 97%; $C_4H_{14}OSi_2$; $[(CH_3)_2SiH]_2O$
F.W. 134.33; [3277-26-7]; **Flash Point:** –20°C
Boiling Point: 71.0°C; **Density:** 0.7600g/mL
n: 1.3690 to 1.3710

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N,N,N',N'-Tetramethylethylenediamine

Quantity	Packaging	Cat.No.	Each	Case of
100mL	AcroSeal® Glass Bottle	**AC43383-1000**	66.70	----

99.5%; TMEDA, TEMED, 1,2-Di(dimethylamino)ethane, $C_6H_{16}N_2$ $(CH_3)_2NCH_2CH_2N(CH_3)_2$; **F.W.** 116.21; [110-18-9]
Melting Point: – 55.0°C; **Flash Point:** 17°C
Boiling Point: 120.0°C to 122.0°C; **Density:** 0.7700g/mL
n: 1.4169 to 1.4189; **UN** 2372

2,2,6,6-Tetramethyl-3,5-heptanedione

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC16832-1000**	466.50	----

Acylation reagent; 98%; $C_{11}H_{20}O_2$; (CH3)3CCOCH2COC(CH3)3
F.W. 184.28; [1118-71-4]; **Flash Point:** 67
Boiling Point: 72.0 to 73.0°C (6.0 mmHg)
Density: 0.88g/mL; **n:** 1.4579 to 1.4599

2,2,6,6-Tetramethylpiperidine

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**AC15195-1000**	377.40	----

98%; $C_9H_{19}N$; **F.W.** 141.26; [768-66-1]; **Flash Point:** 24
Boiling Point: 152.0°C (760.0 mmHg); **Density:** 0.83g/mL
n: 1.4430 to 1.4460

2-Thiazolecarboxaldehyde

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC37768-0050**	350.00	----

98%; C_4H_3NOS; **F.W.** 113.14; [10200-59-6]; **Flash Point:** 68°C
Boiling Point: 76.0°C to 78.0°C (24.0 mmHg); **Density:** 1.2880g/mL
n: 1.5735 to 1.5755

Thioacetamide — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**T102-100**	311.00	6/1365.00
500g	Glass Bottle	**T102-500**	1007.00	6/4400.00

Crystalline Powder; ≥99 %; Ethanethioamide, C_2H_5NS; CH_3CSNH_2
F.W. 75.13; [62-55-5]; **Melting Point:** 111° to 114°C

ChemAlert® Storage Code BLUE

Titanium(IV) isopropoxide

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC19470-0025**	203.00	----

Lewis acid; 98+%; $C_{12}H_{28}O_4Ti$; $Ti[OCH(CH_3)_2]_4$; **F.W.** 284.26; [546-68-9]
Melting Point: > 15.0°C; **Flash Point:** 46°C; **Boiling Point:** 240.0°C
Density: 0.9500g/mL; **n:** 1.4654 to 1.4684

p-Toluenesulfonyl chloride

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC13903-0100**	433.20	----

99+%; $C_7H_7ClO_2S$; CH3C6H4SO2Cl; **F.W.** 190.65; [98-59-9]
Melting Point: 67.0 to 69.0°C; **Flash Point:** 128°C
Boiling Point: 134.0°C (10.0 mmHg)

1,2,3-1H-Triazole

Quantity	Packaging	Cat.No.	Each	Case of
25g	Glass Bottle	**AC34548-0250**	673.30	----

97%; $C_2H_3N_3$; **F.W.** 69.07; [288-36-8]; **Melting Point:** 23° to 25°C
Flash Point: 107°C; **Boiling Point:** 203°C (752mm Hg)
Density: 1.192g/mL; **n:** 1.4930 to 1.4960

1,2,4-Trichlorobenzene — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
4L	Amber Glass, EcoSafPak	**O4846-4**	461.00	4/1230.00

96% min by GC; $C_6H_3Cl_3$; **F.W.** 181.45; [120-82-1]
Melting Point: 16°C; **Boiling Point:** 214°C; **Density:** 1.46g/mL
DOT Class 6.1: Poison; **UN** 2321

ChemAlert® Storage Code BLUE

1,1,2-Trichloroethane

Quantity	Packaging	Cat.No.	Each	Case of
2.5L	Glass Bottle	**AC13943-0025**	431.60	----

Clear liquid; 98%; beta-Trichloroethane, Ethane trichloride, $C_2H_3Cl_3$
F.W. 133.4; [79-00-5]; **Melting Point:** –37°C; **Boiling Point:** 110° to 115°C (at 760 mmHg); **Density:** 1.43g/cm³; **n:** 1.47 to 1.472

Trichloroethylene — Electronic

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T403-4**	407.50	4/1127.00

Also meets ACS specifications; ≥99.5 %; Trichloroethene, C_2HCl_3 CHCl:CCl2; **F.W.** 131.39; [79-01-6]; **Melting Point:** –86°C
Boiling Point: 87°C; **Density:** 4.5 (Air = 1.0); **DOT Class 6.1**: Poison
UN 1710

ChemAlert® Storage Code BLUE

Trichloroethylene — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T341-500**	67.27	6/280.70
4L	Glass Bottle	**T341-4**	343.00	4/954.50
20L	Steel Pail	**T341-20**	1180.00	----

Stabilized; ≥99.5 %; Trichloroethene, C_2HCl_3; $CHCl:CCl_2$
F.W. 131.39; [79-01-6]; **Melting Point:** –86°C; **Boiling Point:** 87°C
Density: 4.5 (Air = 1.0); **DOT Class 6.1**: Poison; **UN** 1710

ChemAlert® Storage Code BLUE

Trichloroethylene — Technical

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T340-4**	241.50	4/691.50

Trichloroethene, C_2HCl_3; $CHCl:CCl_2$; **F.W.** 131.39; [79-01-6]
Melting Point: –86°C; **Boiling Point:** 87°C; **Density:** 4.5 (Air = 1.0)
DOT Class 6.1: Poison; **UN** 1710

ChemAlert® Storage Code BLUE

Triethanolamine — NF

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T350-500**	230.39	6/952.85
4L	Glass Bottle	**T350-4**	992.00	4/2700.00

99.0 to 107.4 %; Trolamine, Tri-beta-hydroxy Ethylamine, $(HOCH_2CH_2)_3N$; $N(CH_2CH_2OH)_3$; **F.W.** 149.14; [102-71-6]
Melting Point: 21°C; **Flash Point:** 190°C/374°F
Boiling Point: 335°C; **Density:** 5.14 (Air = 1.0)

ChemAlert® Storage Code GRAY

Triethanolamine — Certified

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**T407-500**	189.30	6/789.12
1L	Glass Bottle	**T407-1**	323.00	6/1400.00
4L	Glass Bottle	**T407-4**	883.00	4/2470.00

≥99 %; Tri-β-hydroxy Ethylamine, Trolamine, $(HOCH_2CH_2)_3N$ $N(CH_2CH_2OH)_3$; **F.W.** 149.14; [102-71-6]; **Melting Point:** 21°C
Flash Point: 190°C/374°F; **Boiling Point:** 335°C; **Density:** 5.14 (Air = 1.0)

ChemAlert® Storage Code GRAY

Triethylamine — HPLC Grade

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**O4884-100**	65.00	6/284.00

≥99 %; TEA, N,N-Diethylethanamine, $C_6H_{15}N$; $(C_2H_5)_3N$
F.W. 101.19; [121-44-8]; **Melting Point:** –115°C
Flash Point: –11°C/+12.2°F; **Boiling Point:** 89° to 90°C
Density: 3.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1296

SOLVENT

ChemAlert® Storage Code RED

Triethylamine — Reagent

Quantity	Packaging	Cat.No.	Each	Case of
1L	Glass Bottle	**O4885-1**	132.70	6/584.00
4L	Glass Bottle	**O4885-4**	294.50	4/838.00
20L	Steel Pail	**O4885-20**	1122.00	----

≥99 %; TEA, N,N-Diethylethanamine, $C_6H_{15}N$; $(C_2H_5)_3N$
F.W. 101.19; [121-44-8]; **Melting Point:** –115°C
Flash Point: –11°C/+12.2°F; **Boiling Point:** 89° to 90°C;
Density: 3.5 (Air = 1.0); **DOT Class 3**: Flammable Liquid; **UN** 1296

SOLVENT

ChemAlert® Storage Code RED

Triethylamine — Extra pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC21951-0050**	11.24	----
50g	Glass Bottle	**AC21951-0500**	49.70	----

99.7%; TETN, $C_6H_{15}N$; $(C_2H_5)_3N$; **F.W.** 101.19; [121-44-8]
Melting Point: – 115.0°C; **Flash Point:** –11°C; **Boiling Point:** 90.0°C
Density: 0.7280g/mL; **n:** 1.3990 to 1.4010; **UN** 1296

Triethylamine — Pure

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC15791-0100**	538.50	----

99%; TETN, $C_6H_{15}N$; $(C_2H_5)_3N$; **F.W.** 101.19; [121-44-8]
Melting Point: – 115.0°C; **Flash Point:** –11°C; **Boiling Point:** 90.0°C
Density: 0.7280g/mL; **n:** 1.3990 to 1.4010

Triethylene Glycol — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
4L	Glass Bottle	**T346-4**	504.50	4/1387.00

$C_6H_{14}O_4$; **F.W.** 150.18; [112-27-6]; **Melting Point:** –7°C
Flash Point: 165°C/329°F; **Boiling Point:** 285°C; **Density:** 5.17
$HOCH_2CH_2OCH_2CH_2OCH_2CH_2OH$.

ChemAlert® Storage Code GRAY

Triethylsilane

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**AC21292-5000**	629.00	----

Reduction reagent; 99%; $C_6H_{16}Si$; (C2H5)3SiH; **F.W.** 116.28; [617-86-7]
Flash Point: –3; **Boiling Point:** 107.0 to 108.0°C (760.0 mmHg)
Density: 0.72g/mL; **n:** 1.4100 to 1.4120

Trifluoroacetic anhydride

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Glass Bottle	**AC14781-0025**	752.40	----

Acylation reagent; 99+%; TFAA, $C_4F_6O_3$; $(CF_3CO)_2O$; **F.W.** 210.03; [407-25-0]
Melting Point: – 63.5°C; **Boiling Point:** 39.1°C; **Density:** 1.5100g/mL
n: 1.3000; **UN** 3265

4,4,4-Trifluorobutylamine

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC43259-0010**	120.20	----
5g	Glass Bottle	**AC43259-0050**	486.20	----

97%; $C_4H_8F_3N$; **F.W.** 127.11; [819-46-5]; **Boiling Point:** 90°° to 91°C (760mm Hg); **UN** 2734

1,3,5-Triformylbenzene

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC44655-0050**	913.70	----

98%; $C_9H_6O_3$; **F.W.** 162.14; [3163-76-6]; **Melting Point:** 156.0°C to 158.0°C

Triisopropylsilane

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
10g	Glass Bottle	**AC21492-0100**	33.15	----
50g	Glass Bottle	**AC21492-0500**	114.50	----
250g	Glass Bottle	**AC21492-2500**	420.50	----

Reduction reagent; 98%; $C_9H_{22}Si$; $[(CH_3)_2CH]_3SiH$; **F.W.** 158.36; [6485-79-6]
Flash Point: 37°C; **Boiling Point:** 84.0° to 86.0°C (35.0mmHg)
Density: 0.7730g/mL; **n:** 1.4340 to 1.4360; **UN** 1993

3,4,5-Trimethoxyphenol

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC18914-0050**	77.60	----
25g	Glass Bottle	**AC18914-0250**	248.20	----
100g	Glass Bottle	**AC18914-1000**	762.90	----

98.5+%; $C_9H_{12}O_4$; $(CH_3O)_3C_6H_2OH$; **F.W.** 184.19; [642-71-7]
Melting Point: 146° to 149°C

2-(Trimethylsilyl)ethoxymethyl chloride

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC21902-1000**	1770.10	----

90%; SEM-Cl, $C_6H_{15}ClOSi$; $ClCH_2O(CH_2)_2Si(CH_3)_3$; **F.W.** 166.72; [76513-69-4]
Flash Point: 46°C; **Boiling Point:** 57.0°C to 59.0°C (8.0 mmHg)
Density: 0.9400g/mL; **n:** 1.4350 to 1.4370

Trimethylsilylacetylene

ACROS ORGANICS

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC20357-0050**	54.80	----
25g	Glass Bottle	**AC20357-0250**	172.30	----

98%; $C_5H_{10}Si$; $(CH_3)_3SiC_2CH$; **F.W.** 98.22; [1066-54-2]; **Flash Point:** –34°C
Boiling Point: 53°C (760mm Hg); **Density:** 0.69g/mL; **n:** 1.3873 to 1.3903
UN 1993

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Triphenyl phosphite

Quantity	Packaging	Cat.No.	Each	Case of
10L	Plastic Jerry Can	**AC14044-0100**	558.00	----

99%; $C_{18}H_{15}O_3P$; $(C_6H_5O)_3P$; **F.W.** 310.28; [101-02-0]; **Melting Point:** 22.0°C to 24.0°C; **Flash Point:** 146°C; **Boiling Point:** 360.0°C; **Density:** 1.1840g/mL
n: 1.5893 to 1.5913

Tris(dibenzylideneacetone)dipalladium-chloroform adduct

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC36934-0050**	423.00	----

97%; Dipalladium(0)tris(dibenzylideneacetone)-chloroform adduct, $C_{52}H_{43}Cl_3O_3Pd_2$; $(C_6H_5CH{=}CHCOCH{=}CHC_6H_5)_3Pd{\cdot}CHCl_3$; **F.W.** 1035.11 [52522-40-4]; **Melting Point:** 131° to 135°C

Tris(hydroxymethyl)aminomethane — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC42457-0025**	332.60	----

Biological buffer; 99.8%; 2-Amino-2-(hydroxymethyl)-1,3-propanediol, TRIS, Tromethane, $C_4H_{11}NO_3$; $(HOCH_2)_3CNH_2$; **F.W.** 121.14; [77-86-1]
Melting Point: > 168.5°C; **Boiling Point:** 219.0°C to 220.0°C (10.0 mmHg)

Tris(hydroxymethyl)aminomethane acetate salt

Quantity	Packaging	Cat.No.	Each	Case of
25g	Plastic Bottle	**AC43450-0250**	46.55	----
100g	Plastic Bottle	**AC43450-1000**	125.10	----

Biological buffer; 99%; TRIS acetate salt, $C_4H_{11}NO_3{\cdot}C_2H_4O_2$
F.W. 181.19; [6850-28-8]

n-Undecane

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**AC14066-1000**	40.45	----
500mL	Glass Bottle	**AC14066-5000**	327.50	----

99%; $C_{11}H_{24}$; $CH_3(CH_2)_9CH_3$; **F.W.** 156.31; [1120-21-4]; **Melting Point:** – 26.0°C
Flash Point: 60°C; **Boiling Point:** 196.0°C; **Density:** 0.7400g/mL
n: 1.4160 to 1.4180; **UN** 2330

Uranine — Laboratory

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**A833-100**	68.60	6/296.50
500g	Poly Bottle	**A833-500**	340.50	6/1497.00

Concentrated, Water Soluble; Fluorescein Sodium Salt, $C_{20}H_{10}O_5{\cdot}2Na$; **F.W.** 376.28; [518-47-8]; **C.I.** 45350
Melting Point: 320°C; Used by nuclear utilities to test cooling systems for small leaks.

ChemAlert® Storage Code GRAY

Urea — USP

Quantity	Packaging	Cat.No.	Each	Case of
3kg	Poly Bottle	**U16-3**	343.00	4/944.00
50kg	Fiber Drum	**U16-50**	1678.00	----

Carbamide, CH_4N_2O; NH_2CONH_2; **F.W.** 60.06; [57-13-6]
Melting Point: Melting Point Range: 131° to 135°C / 267.8° to 275°F
Density: 1.34g/mL

ChemAlert® Storage Code GRAY

Urea — Certified ACS

Quantity	Packaging	Cat.No.	Each	Case of
500g	Poly Bottle	**U15-500**	83.40	6/370.00
3kg	Poly Bottle	**U15-3**	314.00	4/920.50
50kg	Fiber Drum	**U15-50**	2020.00	----

White Crystals; 99.0 to 100.5 %; Carbamide, CH_4N_2O; NH_2CONH_2
F.W. 60.06; [57-13-6]; **Melting Point:** Melting Point Range: 131° to 135°C / 267.8° to 275°F; **Density:** 1.34g/mL

ChemAlert® Storage Code GRAY

Urea — ACS reagent

Quantity	Packaging	Cat.No.	Each	Case of
10kg	Plastic Bucket	**AC42458-0100**	265.10	----

99%; Carbamide, CH_4N_2O; H_2NCONH_2; **F.W.** 60.06; [57-13-6]
Melting Point: 131.0°C to 135.0°C

Ursolic acid

Quantity	Packaging	Cat.No.	Each	Case of
1g	Glass Bottle	**AC29018-0010**	378.00	----

95%; 3beta-Hydroxyurs-12-en-28-oic acid, $C_{30}H_{48}O_3$; **F.W.** 456.7; [77-52-1]
Melting Point: 283.0 to 285.0°C

Vancomycin hydrochloride

Quantity	Packaging	Cat.No.	Each	Case of
5g	Glass Bottle	**AC29699-0050**	759.30	----

$C_{66}H_{75}Cl_2N_9O_{24}{\cdot}HCl$; **F.W.** 1485.73; [1404-93-9];

Vanillin — NF

Quantity	Packaging	Cat.No.	Each	Case of
100g	Glass Bottle	**V10-100**	79.40	6/346.50

Crystalline; Methyl Protocatechuic Aldehyde, Vanillic Aldehyde, 3-Methoxy-4-Hydroxybenzaldehyde, $C_8H_8O_3$; 1-(CHO)-3-(OCH_3)-4-(OH)-C_6H_3; **F.W.** 152.15; [121-33-5]; **Melting Point:** 80° to 83°C
Boiling Point: 285°C; **Density:** 1.06g/mL

ChemAlert® Storage Code GRAY

D(+)-Xylose

Quantity	Packaging	Cat.No.	Each	Case of
2.5kg	Plastic Bottle	**AC14100-0025**	395.00	----

99+%; $C_5H_{10}O_5$; **F.W.** 150.13; [58-86-6]; **Melting Point:** 148.0°C to 153.0°C

Zinc Stearate — USP

Quantity	Packaging	Cat.No.	Each	Case of
500g	Glass Bottle	**Z784-500**	87.70	4/248.00

Powder; 12.5 to 14.0 %; Stearic Acid Zinc Salt, Octadecanoic Acid Zinc Salt, $C_{36}H_{70}O_4Zn$; $Zn(C_{18}H_{35}O_2)_2$; **F.W.** 632.34; [557-05-1]
Melting Point: 118° to 128°C

ChemAlert® Storage Code GRAY

Aluminum, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SA442-100**	55.80	6/244.50
500mL	Poly Bottle	**SA442-500**	169.30	6/731.00

[7784-13-6, 7647-01-0, 7732-18-5]; **DOT Class 8**: Corrosive **UN** 3264; For atomic absorption. (1mL = 1mg Al) Solute: Aluminum Chloride Hexahydrate Solvent: Dilute Hydrochloric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010ppm (by wet method)
Traceability to NIST	Lot Number Used Aluminum ref. Std.

Boron, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SB155-100**	33.63	6/150.98
500mL	Poly Bottle	**SB155-500**	146.08	6/629.81

[10043-35-3, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL For atomic absorption. (1mL = 1mg B) Solute: Boric Acid Solvent: Distilled Water.

ChemAlert® Storage Code: GRAY

Product Specifications	
Concentration	990 to 1010ppm

Calcium, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SC191-100**	53.70	6/253.50
500mL	Poly Bottle	**SC191-500**	175.41	6/770.58

[471-34-1, 7697-37-2, 7732-18-5]; **DOT Class 8**: Corrosive **UN** 3264; For atomic absorption. (1mL = 1mg Ca) Solute: Calcium Carbonate Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED CALCIUM REF. STD.

Copper, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SC194-100**	55.50	6/243.00
500mL	Poly Bottle	**SC194-500**	176.40	6/761.50

[19004-19-4, 7697-37-2, 7732-18-5]; **DOT Class 8**: Corrosive **UN** 3264; For atomic absorption. (1mL = 1mg Cu) Solute: Copper Nitrate Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	3114 COPPER REF. STD.

Gold, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Glass Bottle	**SG91-100**	166.10	6/719.50

[16961-25-4, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL For atomic absorption. (1mL = 1mg Au) Solute: Gold Chloride Solvent: Distilled Water.

ChemAlert® Storage Code: GRAY

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED GOLD REFERENCE STD.

Iron, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SI124-100**	56.50	6/259.00
500mL	Poly Bottle	**SI124-500**	162.10	6/700.00

[7782-61-8, 7697-37-2, 7732-18-5]; **Melting Point:** >0°C **Density:** 1g/mL; **DOT Class 8**: Corrosive; **UN** 3264; For atomic absorption. (1mL = 1mg Fe) Solute: Ferric Nitrate Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010 ppm
Traceability to NIST	LOT 3126a Iron reference std.

Lead, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SL21-100**	61.40	6/269.00
500mL	Poly Bottle	**SL21-500**	169.20	6/730.50

[10099-74-8, 7697-37-2, 7732-18-5]; **DOT Class 8**: Corrosive **UN** 3264; For atomic absorption. (1mL = 1mg Pb) Solute: Lead Metal Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED Lead ref. Standard

Magnesium, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SM51-100**	52.90	6/250.50
500mL	Poly Bottle	**SM51-500**	169.30	6/740.50

[13446-18-9, 7697-37-2, 7732-18-5]; **Melting Point:** < 0°C; **DOT Class 8**: Corrosive; **UN** 3264; For atomic absorption. (1mL = 1mg Mg) Solute: Magnesium Metal Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED Magnesium ref. Std.

Manganese, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SM81-100**	54.10	6/255.00
500mL	Poly Bottle	**SM81-500**	106.87	6/465.16

[17141-63-8, 7697-37-2, 7732-18-5]; **DOT Class 8**: Corrosive **UN** 3264; For atomic absorption. (1mL = 1mg Mn) Solute: Manganese Nitrate Hexahydrate Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code: WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED Manganese ref. Std.

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Nickel, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SN70-100**	56.00	6/245.50
500mL	Poly Bottle	**SN70-500**	153.88	6/661.65

[13478-00-7, 7697-37-2, 7732-18-5]; **DOT Class 8**: Corrosive
UN 3264; For atomic absorption.
(1mL = 1mg Ni) Solute: Nickel Nitrate Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED NICKEL REF. STANDARD

Potassium, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SP351-100**	53.70	6/253.50
500mL	Poly Bottle	**SP351-500**	166.48	6/724.86

[7447-40-7, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL
For atomic absorption.
(1mL = 1mg K) Solute: Potassium Chloride Solvent: Distilled H_2O.

ChemAlert® Storage Code GRAY

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED POTASSIUM REF. STD.

Selenium, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SS464-100**	32.98	6/147.97
500mL	Poly Bottle	**SS464-500**	105.96	6/459.15

[7783-00-8, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL
For atomic absorption.
(1mL = 1mg Se) Solute: Selenium Dioxide Solvent: Distilled Water.

ChemAlert® Storage Code GRAY

Product Specifications	
Concentration	990 to 1010ppm
Identification	Pass Test

Sodium, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SS139-100**	54.10	6/244.50
500mL	Poly Bottle	**SS139-500**	160.80	6/703.50

NaCl; [7647-14-5, 7732-18-5]; **Melting Point:** 0°C; **Density:** 1g/mL
For atomic absorption. (1mL = 1mg Na) Solute: Sodium Chloride Solvent: Distilled Water.

ChemAlert® Storage Code GRAY

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED SODIUM REF. STD.

Zinc, Reference Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Bottle	**SZ13-100**	56.70	6/260.50
500mL	Poly Bottle	**SZ13-500**	178.83	6/768.62

[7697-37-2, 1314-13-2, 7732-18-5]; **Melting Point:** 0°C
Density: 1.1g/mL; **DOT Class 8**: Corrosive; **UN** 2031
For atomic absorption.
(1mL = 1mg Zn) Solute: Zinc Oxide Solvent: Dilute Nitric Acid.

ChemAlert® Storage Code WHITE

Product Specifications	
Concentration	990 to 1010ppm
Traceability to NIST	LOT NUMBER USED ZINC REF. STANDARD

Aluminum Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLAL1-2X**	144.60	----

[7429-90-5, 7647-01-0, 7732-18-5]; Assurance* Certificate of Analysis reports up to 30 elements at ppb levels.

Aluminum Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLAL2-2Y**	56.00	----
250mL	Poly Bottle	**PLAL2-2T**	120.90	----
500mL	Poly Bottle	**PLAL2-2X**	142.70	----

[7429-90-5, 7732-18-5, 7697-37-2]

Aluminum Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLAL2-3Y**	108.80	----
500mL	Poly Bottle	**PLAL2-3X**	243.50	----

[7429-90-5, 7732-18-5, 7697-37-2]

Arsenic Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLAS2-2Y**	71.50	----
500mL	Poly Bottle	**PLAS2-2X**	147.50	----

[7440-38-2, 7697-37-2, 7732-18-5]

Arsenic Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLAS2-3X**	238.50	----

[7440-38-2, 7697-37-2, 7732-18-5];

Barium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLBA2-2Y**	71.60	----

[7697-37-2, 7440-39-3, 7732-18-5]

Barium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLBA2-2X**	139.60	----

[7647-01-0, 7732-18-5, 513-77-9]

Barium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLBA2-3Y**	108.20	----
500mL	Poly Bottle	**PLBA2-3X**	238.50	----

[7697-37-2, 7440-39-3, 7732-18-5]

Beryllium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLBE2-2Y**	75.00	----

[7440-41-7, 7697-37-2, 7732-18-5]

Boron Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLB9-2Y**	71.30	----
250mL	Poly Bottle	**PLB9-2T**	120.60	----
500mL	Poly Bottle	**PLB9-2X**	140.20	----

[7440-42-8, 7732-18-5]

Cadmium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCD2-2Y**	71.60	----
500mL	Poly Bottle	**PLCD2-2X**	140.50	----

[7440-43-9, 7697-37-2, 7732-18-5]

Calcium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLCA1-2X**	146.70	----

[7440-70-2, 7697-37-2, 7732-18-5]

Calcium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCA2-2Y**	71.60	----
500mL	Poly Bottle	**PLCA2-2X**	117.80	----

[7440-70-2, 7697-37-2, 7732-18-5]

Calcium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCA2-3Y**	110.70	----
500mL	Poly Bottle	**PLCA2-3X**	244.00	----

[7440-70-2, 7697-37-2, 7732-18-5]

Cesium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCS2-3Y**	115.90	----
500mL	Poly Bottle	**PLCS2-3X**	265.50	----

[7789-18-6, 7697-37-2, 7732-18-5]

Cobalt Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCO2-2Y**	71.50	----
500mL	Poly Bottle	**PLCO2-2X**	140.30	----

[7697-37-2, 7440-48-4, 7732-18-5]

Cobalt Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLCO2-3X**	238.50	----

[7697-37-2, 7440-48-4, 7732-18-5]

Copper Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLCU1-2X**	144.60	----

[7440-50-8, 7697-37-2, 7732-18-5]

Copper Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCU2-2Y**	69.50	----
250mL	Poly Bottle	**PLCU2-2T**	120.90	----
500mL	Poly Bottle	**PLCU2-2X**	140.50	----

[7440-50-8, 7697-37-2, 7732-18-5]

Copper Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLCU2-3Y**	108.70	----
500mL	Poly Bottle	**PLCU2-3X**	243.50	----

[7440-50-8, 7697-37-2, 7732-18-5]

Instrument Calibration Standard 6 — For CLP (Contract Laboratory Program)

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLHG2-1Y**	69.50	----

[7439-97-6, 7697-37-2, 7732-18-5]; Mercury at 100µg/mL in 5% HNO_3.

Iron Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLFE1-2X**	145.70	----

[7439-89-6, 7647-01-0, 7732-18-5]

Iron Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLFE2-2Y**	69.70	----
250mL	Poly Bottle	**PLFE2-2T**	121.20	----
500mL	Poly Bottle	**PLFE2-2X**	143.00	----

[7439-89-6, 7697-37-2, 7732-18-5]

Iron Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLFE2-3Y**	110.70	----
500mL	Poly Bottle	**PLFE2-3X**	244.00	----

[7439-89-6, 7697-37-2, 7732-18-5]

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Lead Standard — Plasma Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLPB2-2Y**	71.60	----
250mL	Poly Bottle	**PLPB2-2T**	121.00	----
500mL	Poly Bottle	**PLPB2-2X**	140.60	----

[7439-92-1, 7697-37-2, 7732-18-5]

Lead Standard — Plasma Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLPB2-3Y**	108.20	----
500mL	Poly Bottle	**PLPB2-3X**	242.50	----

Magnesium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLMG1-2X**	144.60	----

[7439-95-4, 7647-01-0, 7732-18-5]

Manganese Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLMN2-2Y**	71.60	----
250mL	Poly Bottle	**PLMN2-2T**	120.90	----
500mL	Poly Bottle	**PLMN2-2X**	142.70	----

[7439-96-5, 7697-37-2, 7732-18-5]

Manganese Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLMN2-3Y**	108.20	----
500mL	Poly Bottle	**PLMN2-3X**	210.50	----

[7439-96-5, 7697-37-2, 7732-18-5]

Mercury Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLHG2-1AY**	62.80	----

[7439-97-6, 7697-37-2, 7732-18-5]

Mercury Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLHG4-2Y**	71.50	----
500mL	Poly Bottle	**PLHG4-2X**	140.40	----

[7439-97-6, 7697-37-2, 7732-18-5]

Molybdenum Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLMO9-2Y**	71.30	----
500mL	Poly Bottle	**PLMO9-2X**	140.30	----

[7439-98-7, 7732-18-5]

Molybdenum Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLMO9-3Y**	108.20	----

[7439-98-7, 7732-18-5]

Nickel Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLNI2-2Y**	69.50	----
500mL	Poly Bottle	**PLNI2-2X**	140.50	----

[7440-02-0, 7697-37-2, 7732-18-5]

Nickel Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLNI2-3X**	240.50	----

[7440-02-0, 7697-37-2, 7732-18-5]

Phosphorus Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLP9-2Y**	71.60	----
500mL	Poly Bottle	**PLP9-2X**	142.50	----

[7722-76-1, 7732-18-5]

Phosphorus Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLP9-3Y**	109.10	----
500mL	Poly Bottle	**PLP9-3X**	244.00	----

[7722-76-1, 7732-18-5]

Platinum Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLPT3-2Y**	238.50	----
500mL	Poly Bottle	**PLPT3-2X**	382.50	----

[7440-06-4, 7647-01-0, 7732-18-5]

Potassium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLK1-2X**	144.60	----

[7447-40-7, 7647-01-0, 7732-18-5]

Potassium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLK2-2Y**	71.60	----
500mL	Poly Bottle	**PLK2-2X**	142.70	----

[7447-40-7, 7647-01-0, 7732-18-5]

Potassium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLK2-3Y**	109.10	----
500mL	Poly Bottle	**PLK2-3X**	244.00	----

[7447-40-7, 7647-01-0, 7732-18-5]

Rhodium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLRH3-2Y**	578.50	----

[7440-16-6, 7647-01-0, 7732-18-5]

Scandium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLSC2-2Y**	187.50	----
500mL	Poly Bottle	**PLSC2-2X**	377.00	----

[12060-08-1, 7697-37-2, 7732-18-5]

Scandium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLSC2-3Y**	355.50	----
500mL	Poly Bottle	**PLSC2-3X**	713.66	----

[12060-08-1, 7697-37-2, 7732-18-5]

Selenium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLSE2-2Y**	71.50	----
500mL	Poly Bottle	**PLSE2-2X**	140.40	----

[7782-49-2, 7697-37-2, 7732-18-5]

Silver Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLAG2-2Y**	71.60	----

[7440-22-4, 7697-37-2, 7732-18-5]

Silver Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLAG2-3X**	238.50	----

[7440-22-4, 7697-37-2, 7732-18-5]

Sodium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLNA1-2X**	144.60	----

[7440-23-5, 7647-01-0, 7732-18-5]

Sodium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLNA2-2Y**	71.60	----
500mL	Poly Bottle	**PLNA2-2X**	142.70	----

[7440-23-5, 7732-18-5, 7697-37-2]

Sodium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLNA2-3Y**	109.10	----
500mL	Poly Bottle	**PLNA2-3X**	244.00	----

[7440-23-5, 7732-18-5, 7697-37-2]

Strontium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLSR1-2X**	153.90	----

[7440-24-6, 7647-01-0, 7732-18-5]

Strontium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLSR2-2Y**	71.30	----
500mL	Poly Bottle	**PLSR2-2X**	140.30	----

[7440-24-6, 7732-18-5, 7697-37-2]

Strontium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLSR2-3Y**	108.20	----
500mL	Poly Bottle	**PLSR2-3X**	239.50	----

[7440-24-6, 7732-18-5, 7697-37-2]

Sulfur Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLS9-2Y**	71.60	----
500mL	Poly Bottle	**PLS9-2X**	142.80	----

[7783-20-2, 7732-18-5]

Sulfur Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLS9-3Y**	108.80	----
500mL	Poly Bottle	**PLS9-3X**	240.00	----

[7783-20-2, 7732-18-5]

Thallium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLTL2-2Y**	71.60	----

[7440-28-0, 7697-37-2, 7732-18-5]

Tin Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLSN2-2X**	144.60	----

[7697-37-2, 7664-39-3, 7732-18-5, 7440-31-5]

Tin Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLSN2-3X**	253.00	----

[7697-37-2, 7664-39-3, 7440-31-5, 7732-18-5]

Tin Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	PTFE	**PLSN5-2Y**	92.50	----
250mL	PTFE	**PLSN5-2T**	123.20	----
500mL	PTFE	**PLSN5-2X**	187.50	----

[7440-31-5, 7647-01-0, 7732-18-5]

Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	PTFE	**PLSN5-3Y**	163.30	----

[7647-01-0, 7440-31-5, 7732-18-5]

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Prices subject to change.

Titanium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	PTFE	**PLTI5-2X**	185.00	----

[7647-01-0, 7440-32-6, 7732-18-5]

Titanium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLTI9-2Y**	69.80	----
500mL	Poly Bottle	**PLTI9-2X**	145.10	----

[16962-40-6, 7732-18-5]

Tungsten Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLW9-2Y**	70.10	----

[7440-33-7, 7732-18-5];

Vanadium Standard — Plasma Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLV2-2Y**	71.50	----
500mL	Poly Bottle	**PLV2-2X**	140.50	----

[7803-55-6, 7697-37-2, 7732-18-5]

Vanadium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLV3-3X**	217.00	----

[7647-01-0, 7440-62-2, 7732-18-5]

Yttrium Standard — Plasma Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLY2-2Y**	70.10	----
500mL	Poly Bottle	**PLY2-2X**	145.70	----

[7440-65-5, 7697-37-2, 7732-18-5]

Yttrium Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLY2-3Y**	110.80	----
500mL	Poly Bottle	**PLY2-3X**	253.00	----

[1314-36-9, 7732-18-5, 7697-37-2];

Zinc Standard — Assurance Grade

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**PLZN1-2X**	144.60	----

[7647-01-0, 7440-66-6, 7732-18-5]

Zinc Standard — Plasma Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLZN2-2Y**	69.50	----
250mL	Poly Bottle	**PLZN2-2T**	122.10	----
500mL	Poly Bottle	**PLZN2-2X**	140.50	----

[7440-66-6, 7697-37-2, 7732-18-5]

Zinc Standard — Assurance grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**PLZN2-3Y**	108.20	----
500mL	Poly Bottle	**PLZN2-3X**	239.50	----

[7697-37-2, 7440-66-6, 7732-18-5]

Plasma Emission Standards Kit 1

Quantity	Packaging	Cat.No.	Each	Case of
38 x 125mL	Poly and PTFE Bottles	**ICP-KIT-1**	2220.00	----

Assurance Grade Groundwater and Wastewater Pollution Control Check Standard, Trace Metals Standard I — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**WP-15**	318.00	----

[Various]; **Hazardous**Refer to EPA Methods Manual 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes,„ Trace Metals 21I, 21II, and 21III Methods. **Recommended Storage:** Ambient

Assurance Grade Groundwater and Wastewater Pollution Control Check Standard, Trace Metals Standard I, without Mercury — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**WP-15N**	262.00	----

[Various]; **Hazardous**Refer to EPA Methods Manual 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes,„ Trace Metals 21I, 21II, and 21III Methods. **Recommended Storage:** Ambient

Laboratory Fortifying Stock Solution — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**LFS-1-500**	647.50	----

For use in EPA Method 200.7 and SW-846, Method 6010.
Used for spiking the laboratory fortified blank and sample matrix.

Assurance Grade Laboratory Performance Check Standard — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**LPC-1-100**	472.50	----
500mL	Poly Bottle	**LPC-1-500**	811.50	----

[Various]; **Hazardous**For use in EPA Method 200.7 and SW-846, Method 6010. **Recommended Storage:** Ambient

Assurance Grade Laboratory Performance Check Standard, without Mercury — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**LPC-1-100N**	445.00	----
500mL	Poly Bottle	**LPC-1-500N**	733.00	----

[Various]; **Hazardous**For use in EPA Method 200.7 and SW-846, Method 6010. **Recommended Storage:** Ambient

Instrument Check Standard 7 — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CALMIX7-100**	341.45	----

Quality Control Standard 7 — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**QC-7**	228.00	----
500mL	Poly Bottle	**QC-7-500**	361.50	----

For use in EPA Method 200.7 and SW-846, Method 6010.

Quality Control Standard 7A — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**QC-7A**	224.00	----
500mL	Poly Bottle	**QC-7A-500**	344.00	----

For use in EPA Method 200.7and SW-846 Method 6010.

Quality Control Standard 21 — For Environmental Analysis

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**QC-21**	343.00	----
500mL	Poly Bottle	**QC-21-500**	605.50	----

For use in EPA Method 200.7 and SW-846 Method 6010.

Instrument Calibration Standard 1 — For CLP (Contract Laboratory Program)

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**ICAL-1**	249.00	----

[7697-37-2];

Interferents A — For CLP (Contract Laboratory Program)

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**INT-A1**	432.00	----

Spike Sample Analysis Standard I — For CLP (Contract Laboratory Program)

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**SPIKE-1**	361.50	----
500mL	Poly Bottle	**SPIKE-1-500**	626.00	----

Arsenic Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLAS2-2Y**	102.70	----

[7440-38-2, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Barium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLBA2-2Y**	102.70	----

[7440-39-3, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Cadmium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLCD2-2Y**	104.30	----

[7440-43-9, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Calcium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLCA2-2Y**	102.70	----

[7440-70-2, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Chromium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLCR2-2Y**	104.30	----

[7440-47-3, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Copper Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLCU2-2Y**	104.30	----

[7440-50-8, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Gold Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLAU1-1Y**	255.00	----

[7440-57-5, 7647-01-0, 7732-18-5]; Contents at 100µg/mL in 2% HCl.

Iron Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLFE2-2Y**	104.30	----

[7439-89-6, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Lead Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLPB2-2Y**	104.30	----

[7439-92-1, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Manganese Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMN2-2Y**	104.30	----

[7439-96-5, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Mercury Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLHG2-1AY**	97.40	----
125mL	Poly Bottle	**CLHG4-2Y**	102.70	----

[7439-97-6, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 10% HNO_3 for CLHG4-2Y.
Contents at 10µg/mL in 5% HNO_3 for CLHG2-1AY.

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Prices subject to change.

Molybdenum Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMO9-2Y**	102.70	----

[7439-98-7, 7732-18-5]; Contents at 1000µg/mL in H_2O.

Potassium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLK2-2Y**	102.70	----

[2023695, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Rhodium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLRH1-1AY**	611.00	----

[7440-16-6, 7647-01-0, 7732-18-5]; Internal Standard Solution.
Contents at 10µg/mL in 2% HCl.

Sodium Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLNA2-2Y**	102.70	----

[7440-23-5, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Tin Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLSN2-2Y**	142.30	----

Contents at 1000µg/mL in 1% HNO_3/1% HF.

Zinc Standard — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLZN2-2Y**	104.30	----

[7440-66-6, 7697-37-2, 7732-18-5]; Contents at 1000µg/mL in 2% HNO_3.

Zirconium ICP-MS Standard

Quantity	Packaging	Cat.No.	Each	Case of
100mL	Poly Natural	**MSZR1KN-100**	156.80	----

Clear, colorless liquid; [7732-18-5, 7697-37-2, 13826-66-9]
Melting Point: Approx. 0; **Boiling Point:** Approx. 100;

ICP-MS Calibration Standard 1 — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-1**	300.50	----

Claritas PPT Grade Multi-Element Solution 2 for ICP/MS — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-2**	459.00	----

[Various]; **HazardousRecommended Storage:** Ambient

Claritas PPT Grade Multi-Element Solution 2, without Mercury, for ICP/MS — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-2N**	370.00	----

[Various]; **HazardousRecommended Storage:** Ambient

Claritas PPT Grade Multi-Element Solution 2A for ICP/MS. Hg is included as a separate solution (CLHG2-1AY). — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-2A**	411.00	----

[Various]; **HazardousRecommended Storage:** Ambient

Claritas PPT Grade Multi-Element Solution 2A, without Mercury, for ICP/MS — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-2AN**	354.50	----

[Various]; **HazardousRecommended Storage:** Ambient

ICP-MS Calibration Standard 3 — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-3**	596.50	----

ICP-MS Calibration Standard 4 — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLMS-4**	256.00	----

ICP-MS Calibration Standards — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
7 x 125mL	Poly Bottles	**CLMS-SET**	1397.00	----

Instrument Calibration Standard 1 — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-CAL-1**	413.50	----

Instrument Calibration Standard 2 — Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-CAL-2**	384.50	----

Instrument Check Standard 1

Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-ICS-1**	368.50	----

Instrument Check Standard 3

Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-ICS-3**	207.50	----

Interference Check Standard 1

Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-INT-A2**	431.00	----

Internal Standard Stock Solution

Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLISS-1**	221.50	----

May be used to monitor and correct changes that occur from differences between standards and samples.

Quality Control Standard 21

Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-QC-21**	424.50	----

Used to check the standard curve, the procedure for interelement correction, and other spectral interferences.

Tuning Solution

Trace ICP/ICP-MS Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CL-TUNE-1**	333.50	----

Silver Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**CLAG2-1BY**	80.54	----

[7440-22-4]; **HazardousRecommended Storage:** Ambient

Aluminum Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLAL1-1BY**	84.79	----

Liquid; [7647-01-0, 7429-90-5, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm^3 at 20°C; **UN** UN1789

Aluminum Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLAL2-1BY**	74.54	----

Liquid; [7697-37-2, 7429-90-5, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm^3 at 20°C; **UN** UN3264

Arsenic Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLAS1-1BY**	86.73	----

Liquid; [7647-01-0, 7440-38-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm^3 at 20°C; **UN** UN1789

Arsenic Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLAS2-1BY**	80.50	----

Liquid; [7697-37-2, 7440-38-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm^3 at 20°C; **UN** UN3264

Gold Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLAU1-1BY**	337.50	----

Fluid; [7440-57-5, 7647-01-0, 7732-18-5]
HazardousRecommended Storage: Ambient

Boron Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLB9-1BY**	80.75	----

Fluid; [7440-42-8, 7732-18-5]; **HazardousRecommended Storage:** Ambient

Barium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLBA1-1BY**	80.00	----

Liquid; [7647-01-0, 7440-39-3, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm^3 at 20°C; **UN** UN1789

Barium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLBA2-1BY**	77.89	----

Liquid; [7697-37-2, 7440-39-3, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm^3 at 20°C; **UN** UN3264

Beryllium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLBE2-1BY**	74.54	----

Fluid; Be; [7440-41-7, 7697-37-2, 7732-18-5]; **Boiling Point:** 100°C
HazardousRecommended Storage: Ambient

Bismuth Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLBI2-1BY**	80.50	----

Fluid; [7440-69-9, 7697-37-2, 7732-18-5]
HazardousRecommended Storage: Ambient

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Carbon Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLC9-1BY**	105.20	----

Fluid; [7440-44-0, 7732-18-5]; **HazardousRecommended Storage:** Ambient

Calcium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCA1-1BY**	84.79	----

Liquid; [7647-01-0, 7440-70-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm^3 at 20°C; **UN** UN1789

Calcium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCA2-1BY**	77.89	----

Liquid; [7697-37-2, 7440-70-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm^3 at 20°C; **UN** UN3264

Cadmium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCD1-1BY**	91.50	----

Liquid; [7647-01-0, 7440-43-9, 7732-18-5]; **Boiling Point:** 100°C; **Density:** 1.00301 g/cm^3 at 20°C; **UN** UN1789;

Cadmium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCD2-1BY**	74.54	----

Liquid; [7697-37-2, 7440-43-9, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01007 g/cm^3 at 20°C; **UN** UN3264

Cerium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCE2-1BY**	80.50	----

Fluid; [7440-45-1, 7697-37-2, 7732-18-5];
HazardousRecommended Storage: Ambient

Cobalt Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCO1-1BY**	126.00	----

Liquid; [7647-01-0, 7440-48-4, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.00301 g/cm^3 at 20°C; **UN** UN1789

Cobalt Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCO2-1BY**	86.96	----

Liquid; [7697-37-2, 7440-48-4, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01007 g/cm^3 at 20°C; **UN** UN3264

Chromium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCR1-1BY**	86.73	----

Liquid; [7647-01-0, 7440-47-3, 7732-18-5]; **Boiling Point:** 100°C; **UN** UN1789

Chromium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCR2-1BY**	74.54	----

Liquid; [7697-37-2, 7440-47-3, 7732-18-5]; **Boiling Point:** 100°C; **UN** UN3264;

Chromium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCR9-1BY**	82.60	----

Liquid; [7440-47-3, 7732-18-5]; **Boiling Point:** 100°C
Density: 1 g/cm^3 at 20°C

Cesium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCS2-1BY**	83.63	----

[7440-46-2]; **HazardousRecommended Storage:** Ambient

Copper Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCU1-1BY**	83.76	----

Liquid; [7647-01-0, 7440-50-8, 7732-18-5]; **Boiling Point:** 100°C; **Density:** 1.00301 g/cm^3 at 20°C; **UN** UN1789;

Copper Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLCU2-1BY**	86.96	----

Liquid; [7697-37-2, 7440-50-8, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01007 g/cm^3 at 20°C; **UN** UN3264

Dysprosium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLDY2-1BY**	93.40	----

Fluid; [7429-91-6, 7697-37-2, 7732-18-5]
azardousRecommended Storage: Ambient

Erbium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLER2-1BY**	88.80	----

Fluid; [7440-52-0, 7732-18-5]; **HazardousRecommended Storage:** Ambient

Europium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLEU2-1BY**	88.80	----

[7440-53-1]; **HazardousRecommended Storage:** Ambient

Iron Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLFE1-1BY**	85.90	----

Liquid; [7647-01-0, 7439-89-6, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.00301 g/cm³ at 20°C; **UN** UN1789

Iron Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLFE2-1BY**	80.50	----

Liquid; [7697-37-2, 7439-89-6, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01007 g/cm³ at 20°C; **UN** UN3264

Gallium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLGA2-1BY**	83.63	----

[7440-55-3]; **HazardousRecommended Storage:** Ambient

Gadolinium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLGD2-1BY**	93.60	----

[7440-54-2]; **HazardousRecommended Storage:** Ambient

Germanium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLGE9-1BY**	82.80	----

[7440-56-4]; **HazardousRecommended Storage:** Ambient

Hafnium Standard for ICP/MS - Claritas PPT Grade — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLHF1-1BY**	92.40	----

Fluid; [7440-58-6, 7647-01-0, 7732-18-5]
HazardousRecommended Storage: Ambient

Mercury Standard for ICP/MS - Claritas PPT Grade — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLHG2-1BY**	76.93	----

Fluid; [7439-97-6, 7697-37-2, 7732-18-5]
HazardousRecommended Storage: Ambient

Holmium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLHO2-1BY**	88.80	----

[7440-60-0]; **HazardousRecommended Storage:** Ambient

Indium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLIN2-1BY**	80.50	----

[7440-74-6]; **HazardousRecommended Storage:** Ambient

Iridium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLIR1-1BY**	243.95	----

[7439-88-5]; **HazardousRecommended Storage:** Ambient

Potassium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLK1-1BY**	118.50	----

Liquid; [7647-01-0, 7440-09-7, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm³ at 20°C; **UN** UN1789

Potassium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125Ml	Plastic Bottle	**CLK2-1BY**	80.50	----

Liquid; [7697-37-2, 7440-09-7, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm³ at 20°C; **UN** UN3264

Lanthanum Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLLA2-1BY**	80.50	----

[7439-91-0]; **HazardousRecommended Storage:** Ambient

Lithium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLLI1-1BY**	126.00	----

Liquid; [7647-01-0, 7439-93-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm³ at 20°C; **UN** UN1789

Lithium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
Plastic Bottle	125mL	**CLLI21BY**	74.54	----

Liquid; [7697-37-2, 7439-93-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm³ at 20°C; **UN** UN3264

Lutetium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLLU2-1BY**	273.00	----

[7439-94-3]; **HazardousRecommended Storage:** Ambient

Magnesium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLMG1-1BY**	118.50	----

Liquid; [7647-01-0, 7439-95-4, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm³ at 20°C; **UN** UN1789

Magnesium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLMG2-1BY**	78.75	----

Liquid; [7697-37-2, 7439-95-4, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm³ at 20°C; **UN** UN3264

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Manganese Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLMN2-1BY**	88.40	----

[7439-96-5]; **HazardousRecommended Storage:** Ambient

Molybdenum Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLMO9-1BY**	80.50	----

Fluid; [7439-98-7, 7732-18-5]; **HazardousRecommended Storage:** Ambient

Sodium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLNA1-1BY**	85.83	----

Liquid; [7647-01-0, 7440-23-5, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm^3 at 20°C; **UN** UN1789

Sodium Standard

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLNA2-1BY**	88.40	----

Liquid; [7697-37-2, 7440-23-5, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm^3 at 20°C; **UN** UN3264

Niobium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLNB9-1BY**	112.50	----

[7440-3-1]; **HazardousRecommended Storage:** Ambient

Neodymium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLND2-1BY**	90.20	----

[7440-00-8]; **HazardousRecommended Storage:** Ambient

Nickel Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLNI2-1BY**	93.90	----

[7440-02-0]; **HazardousRecommended Storage:** Ambient

Phosphorus Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLP9-1BY**	82.80	----

[7723-14-0]; **HazardousRecommended Storage:** Ambient

Lead Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLPB2-1BY**	109.50	----

Fluid; [7439-92-1, 7697-37-2, 7732-18-5]
HazardousRecommended Storage: Ambient

Palladium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLPD1-1BY**	247.00	----

Fluid; [7440-5-3, 7647-01-0, 7732-18-5]
HazardousRecommended Storage: Ambient

Praseodymium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLPR2-1BY**	88.80	----

[7440-10-0]; **HazardousRecommended Storage:** Ambient

Platinum Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLPT1-1BY**	417.00	----

Fluid; [7440-17-7, 7697-37-2, 7732-18-5]
HazardousRecommended Storage: Ambient

Rubidium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLRB2-1BY**	109.50	----

Fluid; [7440-17-7, 7697-37-2, 7732-18-5]
HazardousRecommended Storage: Ambient

Rhenium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLRE9-1BY**	158.40	----

[7440-15-5]; **HazardousRecommended Storage:** Ambient

Rhodium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLRH1-1BY**	489.00	----

[7440-16-6]; **HazardousRecommended Storage:** Ambient

Ruthenium Standard for ICP/MS - Claritas PPT Grade

Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLRU1-1BY**	202.83	----

Fluid; [7440-18-8, 7647-01-0, 7732-18-5]
HazardousRecommended Storage: Ambient

Sulfur Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLS9-1BY**	80.50	----

[7783-20-2]; **HazardousRecommended Storage:** Ambient

Antimony Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSB1-1BY**	120.80	----

Liquid; [7647-01-0, 7440-36-0, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.00751 g/cm³ at 20°C; **UN** UN1789

Antimony Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSB7-1BY**	101.80	----

Liquid; [7697-37-2, 87-69-4, 7440-36-0, 7732-18-5]
Boiling Point: 100°C; **Density:** 1.00498 g/cm³ at 20°C

Scandium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSC2-1BY**	154.68	----

[7440-20-2]; **HazardousRecommended Storage:** Ambient

Selenium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSE2-1BY**	80.50	----

[7782-49-2]; **HazardousRecommended Storage:** Ambient

Silicon Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSI9-1BY**	88.30	----

[7440-21-3]; **HazardousRecommended Storage:** Ambient

Samarium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSM2-1BY**	90.20	----

[7440-19-9]; **HazardousRecommended Storage:** Ambient

Tin Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSN1-1BY**	105.51	----

Liquid; [7647-01-0, 7440-31-5, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.0075 g/cm³ at 20°C; **UN** UN1789

Tin Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSN2-1BY**	116.30	----

Liquid; [7697-37-2, 7664-39-3, 7440-31-5, 7732-18-5]
Boiling Point: 100°C; **Density:** 1.00107 g/cm³ at 20°C; **UN** UN3264

Strontium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSR1-1BY**	108.68	----

Liquid; [7647-01-0, 7440-24-6, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm³ at 20°C; **UN** UN1789

Strontium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLSR2-1BY**	80.50	----

Liquid; [7697-37-2, 7440-24-6, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm³ at 20°C; **UN** UN3264

Tantalum Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTA9-1BY**	83.63	----

[7440-25-7]; **HazardousRecommended Storage:** Ambient

Terbium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTB2-1BY**	80.50	----

[7440-27-9]; **HazardousRecommended Storage:** Ambient

Tellurium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTE1-1BY**	87.76	----

Liquid; [7647-01-0, 13494-80-9, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.00751 g/cm³ at 20°C; **UN** UN1789

Tellurium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTE2-1BY**	83.63	----

Liquid; [7697-37-2, 13494-80-9, 7732-18-5]; **Boiling Point:** 83°C
Density: 1.02516 g/cm³ at 20°C; **UN** UN3264

Thorium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTH2-1BY**	102.00	----

[7440-29-1]; **HazardousRecommended Storage:** Ambient

Titanium Standard — Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTI9-1BY**	74.54	----

[7440-32-6, 7732-18-5]

Thallium Standard for ICP/MS - Claritas PPT Grade — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTL2-1BY**	111.30	----

Fluid; [7440-28-0, 7697-37-2, 7732-18-5]
HazardousRecommended Storage: Ambient

Thulium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLTM2-1BY**	107.56	----

[Various]; **HazardousRecommended Storage:** Ambient

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Uranium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLU2-1BY**	100.00	----

[7440-61-1]; **HazardousRecommended Storage:** Ambient

Vanadium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLV1-1BY**	89.82	----

Liquid; [7647-01-0, 7440-62-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.003 g/cm³ at 20°C; **UN** UN1789

Vanadium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLV2-1BY**	74.54	----

Liquid; [7697-37-2, 7440-62-2, 7732-18-5]; **Boiling Point:** 100°C
Density: 1.01006 g/cm³ at 20°C; **UN** UN3264

Tungsten Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLW2-1BY**	93.50	----

[7440-33-7]; **HazardousRecommended Storage:** Ambient

Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLW9-1BY**	81.90	----

[7440-33-7, 7732-18-5]

Yttrium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLY2-1BY**	80.50	----

[7440-65-5]; **HazardousRecommended Storage:** Ambient

Ytterbium Standard for ICP/MS - Claritas PPT Grade

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLYB2-1BY**	88.80	----

[7440-64-4]; **HazardousRecommended Storage:** Ambient

Zinc Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLZN1-1BY**	81.57	----

Liquid; [7647-01-0, 7440-66-6, 7732-18-5]; **Boiling Point:** 100°C; **UN** UN1789

Zinc Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLZN2-1BY**	83.29	----

Liquid; [7697-37-2, 7440-66-6, 7732-18-5]
Boiling Point: 100°C; **UN** UN3264

Zirconium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLZR1-1BY**	91.89	----

Liquid; [7647-01-0, 7440-67-7, 7732-18-5]; **Boiling Point:** 100°C; **UN** UN1789

Zirconium Standard — Claritas PPT

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**CLZR2-1BY**	110.00	----

Liquid; [7697-37-2, 7440-67-7, 7732-18-5]; **Boiling Point:** 100°C; **UN** UN3264;

LCMS Daily Check Standard 1

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**LCDC-1**	40.00	----

[58-08-2, 50-55-5]; **Flash Point:** 5°C; **Boiling Point:** 81°C
Density: 0.7822g/cm³; **UN** 1993; **Recommended Storage:** Freezer

Product Specifications	
Caffeine	10g/mL
Explosion Limit	4.4% (volume); 16% (volume)
Ignition Point	525C
Physical Form	Fluid
Reserpine	10g/mL
Vapor Pressure	97 hPA (20C)

LCMS Daily Check Standard 2

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**LCDC-2**	41.00	----

[100-02-7, 58-08-2, 50-55-5]; **Flash Point:** 5°C; **Boiling Point:** 81°C
Density: 0.7822g/cm³; **UN** 1993; **Recommended Storage:** Freezer

Product Specifications	
4_Nitrophenol	10g/mL
Caffeine	10g/mL
Explosion Limit	4.4% (volume); 16% (volume)
Ignition Point	525C
Physical Form	Fluid
Reserpine	10g/mL
Vapor Pressure	97 hPA (20C)

9 Component Mix, Method 524.3

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**UCMR-3**	73.50	----

[74-83-9, 74-87-3, 106-99-0, 74-97-5, 135-98-8, Various Additional]
Recommended Storage: Ambient

Ion Chromatography Ammonia Nitrogen Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-NH3N9-2Y**	75.30	----

[NH3-N, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.

Ion Chromatography Bromate Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-BRO39-2Y**	111.20	----

[BrO3-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.

Ion Chromatography Bromide Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-BR9-2Y**	60.50	----
500mL	Poly Bottle	**AS-BR9-2X**	137.40	----

[Br-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Sodium Bromide (NaBr), 0.1M: AS-BR9-5Y, -5X
Bromide anion at 1000µg/mL in aqueous solution of NaBr: AS-BR9-2Y, -2X
AS-BR9-5Y and -5X Matrix: H_20, Concentration: 0.1M NaBr; AS-BR9-2Y and -2X: Matrix: H_20, Concentration: 1000µg/mL Br

Chloride Standard IC

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-CL9-2Y**	74.50	----
500mL	Poly Bottle	**AS-CL9-2X**	138.00	----

[12125-02-9, 7732-18-5]; For use with EPA Method 300.0 (Revision 2.1) and ASTM Method D4327.
Chloride anion at 1000µg/mL in aqueous solution of NaCl.

Ion Chromatography Cyanide Reference Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**RS-CN9-2Y**	90.90	----
500mL	Poly Bottle	**RS-CN9-2X**	148.80	----

[CN-, 7732-18-5]; RSCN9-2Y and RSCN9-2X are for use in US EPA Methods 335.2 and 335.3, ASTM Method D2036-19, and Standard Method 4500-CNF. RSCN9C-2X is for use in EPA Method 335.1.

Ion Chromatography Fluoride Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-F9-2Y**	75.30	----
500mL	Poly Bottle	**AS-F9-2X**	137.40	----

[F-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Sodium Fluoride (NaF), 0.1M: AS-F9-5Y, -5X
Fluoride anion at 10µg/mL in aqueous solution of NaF: AS-F9-1AY, -1AX
Fluoride anion at 100µg/mL in aqueous solution of NaF: AS-F9-1Y, -1X
Fluoride anion at 1000µg/mL in aqueous solution of NaF: AS-F9-2Y, -2X

Ion Chromatography Fluoride Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-F9-1Y**	67.50	----
500mL	Poly Bottle	**AS-F9-1X**	130.60	----

[F-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Sodium Fluoride (NaF), 0.1M: AS-F9-5Y, -5X
Fluoride anion at 10µg/mL in aqueous solution of NaF: AS-F9-1AY, -1AX
Fluoride anion at 100µg/mL in aqueous solution of NaF: AS-F9-1Y, -1X
Fluoride anion at 1000µg/mL in aqueous solution of NaF: AS-F9-2Y, -2X

Ion Chromatography Fluoride Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**AS-F9-1AX**	127.10	----

[F-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Sodium Fluoride (NaF), 0.1M: AS-F9-5Y, -5X
Fluoride anion at 10µg/mL in aqueous solution of NaF: AS-F9-1AY, -1AX
Fluoride anion at 100µg/mL in aqueous solution of NaF: AS-F9-1Y, -1X
Fluoride anion at 1000µg/mL in aqueous solution of NaF: AS-F9-2Y, -2X

Ion Chromatography Nitrate Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-NO39-2Y**	75.20	----
500mL	Poly Bottle	**AS-NO39-2X**	140.90	----

[NO3-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Nitrate anion at 1000µg/mL in aqueous solution of $NaNO_3$.

Ion Chromatography Nitrite Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-NO29-2Y**	74.00	----
500mL	Poly Bottle	**AS-NO29-2X**	137.10	----

[NO2-, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Nitrite anion at 1000µg/mL in aqueous solution of $NaNO_2$.

Ion Chromatography Nitrite-N Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-NO2N9-2Y**	75.20	----
500mL	Poly Bottle	**AS-NO2N9-2X**	137.20	----

[NO2-N, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Nitrite-N anion at 1000µg/mL in aqueous solution of $NaNO_2$.

Ion Chromatography Phosphate Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-PO49-2Y**	75.10	----
500mL	Poly Bottle	**AS-PO49-2X**	139.10	----

[P04-3, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Phosphate anion at 1000µg/mL in aqueous solution of KH_2PO_4.

Ion Chromatography Phosphate-P Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-PO4P9-2Y**	75.20	----

[PO4-P, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Phosphate-P anion at 1000µg/mL in aqueous solution of KH_2PO_4.

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Ion Chromatography Sulfate Standard

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**AS-SO49-2Y**	75.30	----
500mL	Poly Bottle	**AS-SO49-2X**	120.20	----

[SO4-2, 7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.
Sulfate anion at 1000µg/mL in aqueous solution of K_2SO_4.

Ion Chromatography Instrument Check Standard 1

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**ICMIX1-100**	190.90	----

For use with EPA Method 300.0 and ASTM Method D4327.

Ion Chromatography Instrument Check Standard 2

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**ICMIX2-100**	215.50	----

For use with EPA Method 300.0 and ASTM Method D4327.

Ion Chromatography Instrument Check Standard 3

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**ICMIX3-100**	227.50	----

[7732-18-5]; For use with EPA Method 300.0 and ASTM Method D4327.

Ion Chromatography Instrument Check Standard 6

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Poly Bottle	**ICMIX6-100**	258.92	----

For use with EPA Method 300.0 and ASTM Method D4327.

USP Oral Elemental Impurities A

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**USP-TXM2**	133.80	----

[Various]; **HazardousRecommended Storage:** Ambient

USP Precious Metal Impurities B (with Os)

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**USP-TXM3**	522.50	----

[Various]; **HazardousRecommended Storage:** Ambient

USP Precious Metals Impurities B (without Os)

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**USP-TXM4**	385.00	----

[Various]; **HazardousRecommended Storage:** Ambient

USP Oral/Parenteral Elemental Impurities C

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**USP-TXM5**	157.00	----

[Various]; **HazardousRecommended Storage:** Ambient

USP Parenteral Elemental Impurities D (Big 4)

Quantity	Packaging	Cat.No.	Each	Case of
125mL	Plastic Bottle	**USP-TXM6**	110.40	----

[Various]; **HazardousRecommended Storage:** Ambient

5 Component Mix in DMSO USP

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**USP-RS-C1**	31.00	----

[71-55-6, 75-35-4, 107-06-2, 56-23-5, 71-43-2]; **Flash Point:** 0°C
Boiling Point: 189°C; **Density:** 1.1g/cm³; **UN** 1992
Recommended Storage: Freezer

Product Specifications	
1,1,1_Trichloroethane	50,000g/mL
1,1_Dichloroethene	40,000g/mL
1,2_Dichloroethane	25,000g/mL
Benzene	10,000g/mL
Carbon Tetrachloride	20,000g/mL
Explosion Limit	1.8% (volume); 63% (volume)
Ignition Point	270C
Physical Form	Fluid
Vapor Pressure	2.5 hPA (20C)

15 Component Mix in DMSO USP

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**USP-RS-C2A**	33.00	----

[67-68-5, 110-82-7, 67-56-1, 108-87-2, 108-38-3, Various Additional]
Flash Point: 95°C; **Boiling Point:** 189°C; **Density:** 1.1g/cm³
Recommended Storage: Freezer

Product Specifications	
1,4_Dioxane	1900g/mL
Chlorobenzene	1800g/mL
Cyclohexane	19,400g/mL
Ethylbenzene	1840g/mL
Explosion Limit	1.8% (volume); 63% (volume)
Ignition Point	270C
Methanol	15,000g/mL
Methylcyclohexane	5900g/mL
Methylene Chloride	3000g/mL
Physical Form	Fluid
Tetrahydrofuran	3450g/mL
Toluene	4450g/mL
Vapor Pressure	2.5 hPA (20C)
cis_1,2_Dichloroethene	4700g/mL
m_Xylene	6510g/mL
o_Xylene	980g/mL
p_Xylene	1520g/mL
trans_1,2_Dichloroethene	4700g/mL

8 Component Mix in DMSO USP

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**USP-RS-C2B**	32.00	----
1mL	Glass Ampoule	**USP-RS-C2C**	32.00	----

[127-19-5, 68-12-2, 107-21-1, 872-50-4, 75-12-7, Various Additional]
Flash Point: 95°C; **Boiling Point:** 189°C; **Density:** 1.1g/cm^3
Recommended Storage: Freezer

Product Specifications	
1_Methyl_2_pyrrolidinone	2650g/mL
2_Ethoxyethanol	800g/mL
2_Methoxyethanol	250g/mL
Ethylene glycol	3100g/mL
Explosion Limit	1.8% (volume); 63% (volume)
Formamide	1100g/mL
Ignition Point	270C
N,N_Dimethylacetamide	5450g/mL
N,N_Dimethylformamide	4400g/mL
Physical Form	Fluid
Tetramethylene sulfone	800g/mL
Vapor Pressure	2.5 hPA (20C)

25 Component Mix in DMSO USP

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**USP-RS-C3A**	40.10	----

[71-36-3, 71-41-0, 71-23-8, 78-92-2, 78-93-3, Various Additional]
Flash Point: 95°C; **Boiling Point:** 189°C; **Density:** 1.1g/cm^3
Recommended Storage: Freezer

Product Specifications	
1_Butanol	1000g/mL
1_Pentanol	1000g/mL
1_Propanol	1000g/mL
2_Butanol	1000g/mL
2_Butanone	1000g/mL
2_Methyl_1_propanol	1000g/mL
2_Propanol	1000g/mL
3_Methyl_1_butanol	1000g/mL
4_Methyl_2_pentanone	1000g/mL
Acetone	1000g/mL
Acetonitrile	1000g/mL
Anisole	1000g/mL
Butyl acetate	1000g/mL
Ethanol	1000g/mL
Ether	1000g/mL
Ethyl acetate	1000g/mL
Ethyl formate	1000g/mL
Explosion Limit	1.8% (volume); 63% (volume)
Ignition Point	270C
Isobutyl acetate	1000g/mL
Isopropylbenzene	1000g/mL
Methyl Acetate	1000g/mL
Physical Form	Fluid
Propyl acetate	1000g/mL
Vapor Pressure	2.5 hPA (20C)
n_Heptane	1000g/mL
n_Pentane	1000g/mL
tert_Butyl methyl ether	1000g/mL

2 Component Mix in DMSO USP

Quantity	Packaging	Cat.No.	Each	Case of
1mL	Glass Ampoule	**USP-RS-C3B**	27.00	----

[64-19-7, 64-18-6]; **Flash Point:** 95°C; **Boiling Point:** 189°C
Density: 1.1g/cm^3; **Recommended Storage:** Freezer

Product Specifications	
Acetic Acid	1000g/mL
Explosion Limit	1.8% (volume); 63% (volume)
Formic Acid	1000g/mL
Ignition Point	270C
Physical Form	Fluid
Vapor Pressure	2.5 hPA (20C)

Calcium Chloride Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Bottle	**1780-16**	48.60	----
1L	Poly Bottle	**1780-32**	57.70	----

[7732-18-5, 7647-01-0, 471-34-1]

Cyanide Standard

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Poly	**254-34**	41.25	----
500mL	Amber Poly	**2543-4**	77.30	----

Clear, colorless liquid; [151-50-8 (Potassium Cyanide), 1310-73-2 (Sodium Hydroxide), 7732-18-5 (Water, Deionized)]

Fluoride Standard

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**3163-32**	89.10	----
4L	Poly Natural	**3163-1**	180.20	----

Clear, red liquid
[7732-18-5, 1310-73-2, 64-19-7, 7647-14-5, 13291-61-7, 25956-17-6]

Fluoride Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**3171-16**	56.30	----
1L	Poly Natural	**3171-32**	72.10	----

Clear, colorless liquid
[7681-49-4 (Sodium Fluoride), 7732-18-5 (Water, Deionized)]

Sulfate Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**8112-16**	59.20	----

Clear, colorless liquid
[7757-82-6 (Sodium Sulfate), 7732-18-5 (Water, Deionized)]

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Thiocyanate Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**ST18-1**	76.60	6/343.50

Potassium Thiocyanate Solutions, [333-20-0, 64-02-8, 7732-18-5]
Density: 1g/mL; Standardized against silver nitrate at 25°C.

ChemAlert® Storage Code GRAY

Product Specifications	
Color	5 APHA max.
Concentration	0.0995 to 0.1005
Identification	Pass Test

Platinum Cobalt Color Standard Solution

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Glass Bottle	**SP120-500**	359.50	6/1572.00
1L	Glass Bottle	**SP120-1**	625.00	6/2810.00

[7647-01-0, 7791-13-1, 16921-30-5, 7732-18-5]; **Melting Point:** 0°C
Density: 1g/mL; **DOT Class 8**: Corrosive; **UN** 1789; APHA No. 500 Color Standard for water and clear liquids. Meets ASTM D1209-00. Conforms to APHA standard.

ChemAlert® Storage Code WHITE

Product Specifications	
Absorbance at 430nm	0.110 to 0.120 AU
Absorbance at 455nm	0.130 to 0.145 AU
Absorbance at 480nm	0.105 to 0.120 AU
Absorbance at 510nm	0.055 to 0.065 AU
Identification	Pass Test

Brownish-Yellow Standard Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2872-4**	44.95	----

brownish or greenish yellow or brown liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Brownish-Yellow Standard Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2873-4**	44.95	----

Brownish or greenish yellow or brown liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Brownish-Yellow Standard Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2874-4**	44.95	----

brownish or greenish yellow or brown liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Brown Reference Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**28806-4**	118.10	----

brownish or greenish yellow liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Brownish-Yellow Reference

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2875-4**	67.40	----

brownish or greenish yellow or brown liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Brownish-Yellow Reference Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2876-4**	35.85	----

brownish or greenish yellow liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Brownish-Yellow Reference Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**2877-4**	55.60	----

brownish or greenish yellow liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Yellow Standard Solution

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**28833-4**	91.90	----

Clear, yellow to red liquid
[10025-77-1, 7647-01-0, 7732-18-5, 7791-13-1]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Color standard Y5 — EP

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**28835-4**	106.70	----

Yellow standard solution
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: 0°C; **Boiling Point:** 100°C

Reference solution B9 — EP

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**28809-4**	118.10	----

Brown reference solution
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: 0°C; **Boiling Point:** 100°C

Reference solution Y4 — EP

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**28834-4**	91.90	----

Yellow standard solution
[10025-77-1, 7647-01-0, 7732-18-5, 7758-99-8, 7791-13-1]
Melting Point: 0°C; **Boiling Point:** 100°C

Oxidation-Reduction Potential Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Amber Glass	**54645-16**	40.05	----

[7732-18-5, 7447-40-7, 14459-95-1, 13746-66-2]

Oxidation-Reduction Potential Standard

Quantity	Packaging	Cat.No.	Each	Case of
120mL	Amber Glass	**54646-4**	30.10	----
500mL	Glass amber	**54646-16**	44.25	----

Clear, amber colored liquid; [7732-18-5, 7783-83-7, 7664-93-9, 7783-85-9]

Ethylenediamine Tetraacetic Acid, Disodium Salt, Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Bottle	**SS412-1**	113.30	6/498.34

[6381-92-6, 7732-18-5]
Melting Point: 0°C; **Density:** 1.02g/mL

ChemAlert* Storage Code GRAY

Product Specifications	
Color	15 APHA max.
Concentration	0.0995 to 0.1005M
pH	4.5 to 5.5 (at 25C)

Ethylenediamine Tetraacetic Acid, Disodium Salt, Standard Solution — Certified

Quantity	Packaging	Cat.No.	Each	Case of
4L	Poly Bottle	**SS221-4**	127.40	4/387.50

Sodium (Di) Ethylenediamine Tetraacetate Standard Solution
EDTA Standard Solution,
[6381-92-6, 1310-73-2, 7791-18-6, 7732-18-5]; **Melting Point:** 0°C
Density: 1.02g/mL

ChemAlert* Storage Code GRAY

Product Specifications	
Color	5 APHA max.
Equivalence	0.98 to 1.02mg/mL
Identification	Pass Test

Conductivity Standard

Quantity	Packaging	Cat.No.	Each	Case of
6 x 20mL	Pack	**2236-100P**	55.20	----
500mL	Poly Natural	**2236-16**	28.85	----
1L	Poly Natural	**2236-32**	87.09	----
4L	Poly bottle	**2236-1**	106.60	----

Clear, Colorless Liquid; [7732-18-5, 7647-14-5]

Conductivity Standard

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**224920-32**	84.10	----

Clear, colorless liquid; [7732-18-5, 7647-14-5]
200 mS/cm (200,000 µmho/cm) at 25°C

Conductivity/TDS Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**2237-16**	28.10	----
1L	Poly Natural	**2237-32**	43.35	----
4L	Poly Natural	**2237-1**	101.30	----

Clear, Colorless Liquid; [7732-18-5, 7647-14-5]
100µS/cm (100µmho/cm) at 25°C

Conductivity/TDS Standard

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**2241-16**	28.10	----
1L	Poly Natural	**2241-32**	43.35	----
4L	Poly Natural	**2241-1**	102.00	----

Clear, Colorless Liquid
500µS/cm (500µmho/cm) at 25°C

Potassium Chloride Conductivity Standard

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**588843-32**	62.00	----

Clear, Colorless Liquid; [7732-18-5, 7447-40-7]
5 mS/cm (5000µmho/cm) at 25°C

Potassium Chloride

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**58875-32**	64.20	----

Clear, colorless liquid; [7732-18-5, 7447-40-7]
Boiling Point: Approx. 100
500 µS/cm (500µmho/cm) at 25°C

Potassium Chloride Conductivity Standard

Quantity	Packaging	Cat.No.	Each	Case of
1L	Poly Natural	**5889-32**	81.10	----

Clear, Colorless Liquid; [7447-40-7, 7732-18-5]
Melting Point: Approximately 0°C; **Boiling Point:** Approximately 100°C

Potassium Chloride Reference Solution C

Quantity	Packaging	Cat.No.	Each	Case of
500mL	Poly Natural	**5895-16**	31.78	----
1L	Poly Natural	**5895-32**	83.40	----
10L	Cubitainer	**5895-25**	178.30	----

Clear, Colorless Liquid; [7732-18-5, 7447-40-7]
1408.8µS/cm (1408.8µmho/cm) at 25°C

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Notwithstanding the foregoing, Products supplied by Seller that are obtained by Seller from an original manufacturer or third party supplier are not warranted by Seller, but Seller agrees to assign to Buyer any warranty rights in such Product that Seller may have from the original manufacturer or third party supplier, to the extent such assignment is allowed by such original manufacturer or third party supplier.

In no event shall Seller have any obligation to make repairs, replacements or corrections required, in whole or in part, as the result of (i) normal wear and tear, (ii) accident, disaster or event of force majeure, (iii) misuse, fault or negligence of or by Buyer, (iv) use of the Products in a manner for which they were not designed, (v) causes external to the Products such as, but not limited to, power failure or electrical power surges, (vi) improper storage and handling of the Products or (vii) use of the Products in combination with equipment or software not supplied by Seller. If Seller determines that Products for which Buyer has requested warranty services are not covered by the warranty hereunder, Buyer shall pay or reimburse Seller for all costs of investigating and responding to such request at Seller's then prevailing time and materials rates. If Seller provides repair services or replacement parts that are not covered by this warranty, Buyer shall pay Seller therefore at Seller's then prevailing time and materials rates. Any installation, maintenance, repair, service, relocation or alteration to or of, or other tampering with, the Products performed by any person or entity other than Seller without Seller's prior written approval, or any use of replacement parts not supplied by Seller, shall immediately void and cancel all warranties with respect to the affected Products.

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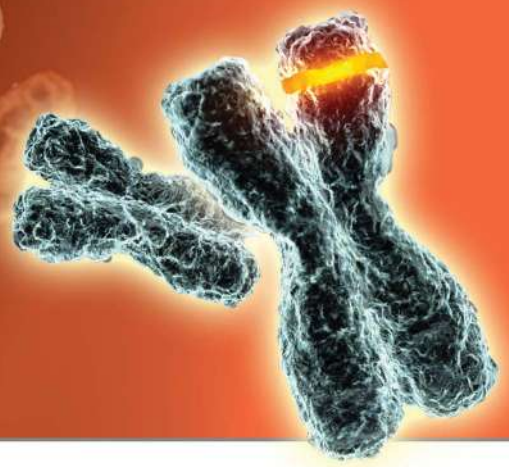

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